



**Référence:** e13\*168/2013\*01895\*00

**Annexes:** - Rapport technique  
- Fiche de renseignements du constructeur

Bertrange, le 25 septembre 2023

## FICHE DE RÉCEPTION UE PAR TYPE D'UN VÉHICULE ENTIER EU WHOLE-VEHICLE TYPE-APPROVAL CERTIFICATE

### Communication concernant:

Communication concerning:

- **la réception UE par type d'un véhicule entier**  
EU whole-vehicle type-approval
- ~~l'extension de la réception UE par type d'un véhicule entier~~  
~~extension of EU whole-vehicle type-approval~~
- ~~le refus de la réception UE par type d'un véhicule entier~~  
~~refusal of EU whole-vehicle type-approval~~
- ~~le retrait de la réception UE par type d'un véhicule entier~~  
~~withdrawal of EU whole-vehicle type-approval~~

**pour un type de véhicule complet**  
of a complete vehicle type

**en vertu du règlement (UE) N° 168/2013,  
modifié en dernier lieu par le règlement (délégué de la Commission) (UE) N° 2020/1694  
complété par les règlements (UE) N° 3/2014, N° 44/2014 et N° 134/2014 modifiés en dernier lieu  
par le règlement (UE) N° 2018/295**

with regard to Regulation (EU) N° 168/2013, as last amended by (Commission Delegated) Regulation (EU) N° 2020/1694  
supplemented by regulations (EU) N° 3/2014, N° 44/2014 and N° 134/2014 as last amended by regulation (EU) N° 2018/295

### Numéro de réception UE par type:

EU type-approval number:

e13\*168/2013\*01895\*00

### Raison de l'extension:

Reason for extension:

not applicable

## SECTION I

### SECTION I

|               |  |  |
|---------------|--|--|
| <b>0.1.</b>   | <b>Marque (dénomination commerciale du constructeur):</b><br>Make (trade name of manufacturer):  | SHANSU, Easycool, yuki, HIMOTO, aMoto, CITYCOCO, Rooley, Rooder, Strollwheel, HECHT MOTORS, ZMOTOS, MALCOR IBÉRICA, R RETELLI  |
| <b>0.2.</b>   | <b>Type:</b><br>Type:  | HM-6   |
| <b>0.2.1.</b> | <b>Variante(s):</b><br>Variant(s):   | 00, 01   |
| <b>0.2.2.</b> | <b>Version(s):</b><br>Version(s):  | 00   |
| <b>0.2.3.</b> | <b>Appellation(s) commerciale(s) (le cas échéant):</b><br>Commercial name(s) (if available):   | electric scooter, Electric motorcycle  |
| <b>0.3.</b>   | <b>Catégorie, sous-catégorie et sous-sous-catégorie du véhicule:</b><br>Category, subcategory and sub-subcategory of vehicle:                  | L1e-B  |
| <b>0.4.</b>   | <b>Raison sociale et adresse du constructeur du véhicule complet:</b><br>Company name and address of manufacturer of the complete vehicle:     | ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED<br>ROOM 2103, 21/F HO KING COMMERCIAL<br>CENTRE NO. 2-16 FA YUEN STREET MONG KOK,<br>KOWLOON HONG KONG                              |
| <b>0.4.1</b>  | <b>Nom(s) et adresse(s) de(s) usines d'assemblage:</b><br>Name(s) and adresse(s) of assembly plant(s):   | ZHEJIANG YIXING INDUSTRY & TRADE CO., LTD<br>Gangtou Industrial Functional Area, Lutan Town,<br>Wuyi County, Jinhua City, Zhejiang Province,<br>The People's Republic of China |
| <b>0.4.2.</b> | <b>Nom et adresse du mandataire du constructeur (le cas échéant):</b><br>Name and address of manufacturer's authorised representative, if any: | MINIMOTOS SPORT, S.L.<br>C/ LA MITJANA 7 - POLIGONO EL BOCH,<br>CREVILLEN, ALICANTE, SPAIN   |

## SECTION II

### SECTION II

|           |   |   |
|-----------|---|---|
| <b>1.</b> | <b>Service technique responsable de la réalisation des essais:</b><br>Technical service responsible for carrying out the tests: | Cetoc Technical Service srl<br>Via della Bufalotta, 373<br>00139 – Roma - Italy |
| <b>2.</b> | <b>Date du rapport d'essais:</b><br>Date of test report:  | 08.08.2023  |
| <b>3.</b> | <b>Numéro du rapport d'essais:</b><br>Number of test report:  | CN-118-2-134-WHO23-07035-IR   |

**SECTION III**  
SECTION III

**Le soussigné certifie l'exactitude de la description, faite par le constructeur dans la fiche de renseignements jointe, du type de véhicule décrit ci-dessus, dont un ou plusieurs échantillons représentatifs, sélectionnés par l'autorité compétente en matière de réception UE par type, ont été présentés en tant que prototypes du type de véhicule, et que les résultats d'essais joints s'appliquent au type de véhicule.**

The undersigned hereby certifies the accuracy of the manufacturer's description in the attached information document of the vehicle type described above, for which one or more representative samples, selected by the EU type-approval authority, have been submitted as prototypes of the vehicle type and that the attached test results apply to the vehicle type.

- |  |   |
|--|---|
| <p><b>1. Le type de véhicule complet satisfait/<br/><del>ne satisfait pas</del> à l'ensemble des prescriptions pertinentes énumérées dans l'annexe II du règlement (UE) N° 168/2013.</b></p> <p>The complete vehicle type meets/<del>does not meet</del> all relevant requirements as listed in Annex II to Regulation (EU) N° 168/2013.</p> | <p>The complete vehicle type meets all relevant requirements as listed in Annex II to Regulation (EU) N° 168/2013</p> |
| <p><b>1.1. Restrictions de validité:</b><br/>Restrictions of validity:</p>   | <p>not applicable</p>   |
| <p><b>1.2. Dérogations accordées:</b><br/>Waivers applied:</p>   | <p>not applicable</p>   |
| <p><b>1.2.1. Raisons des dérogations:</b><br/>Reasons for the waivers:</p>   | <p>not applicable</p>   |
| <p><b>1.2.2. Autres exigences applicables:</b><br/>Alternative requirements:</p>   | <p>not applicable</p>   |
| <p><b>2. La réception est accordée/<del>étendue/refusée/retirée</del>:</b><br/>The approval is granted/<del>extended/refused/withdrawn</del>:</p>  | <p>the approval is granted</p>  |
| <p><b>2.1. La réception est accordée conformément à l'article 40 du règlement (UE) N° 168/2013 et sa validité expire, par conséquent, le jj/mm/aaaa.</b><br/>The approval is granted in accordance with Article 40 of Regulation (EU) N° 168/2013 and the validity of the approval is thus limited to dd/mm/yyyy.</p>                        | <p>not applicable</p>   |

**Lieu:**

Place:

Bertrange

**Date:**

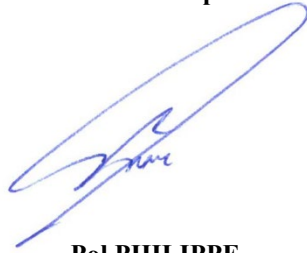
Date:

25 septembre 2023

**Signature:**

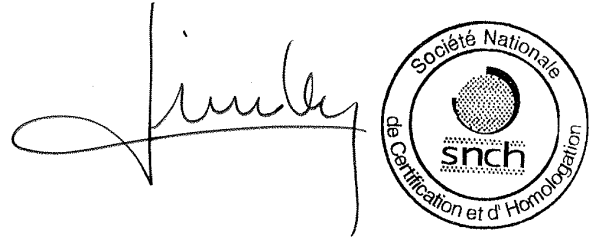
Signature:

**Pour le Ministre de la Mobilité  
et des Travaux publics**



**Pol PHILIPPE**  
Attaché

**Pour la SNCH**



**Laurent LINDEN**  
Directeur opérationnel



**Pièces jointes:**

Attachments:

- **Dossier de réception**  
Information package
- **Résultats d'essai**  
Test results
- **Nom(s) et spécimen(s) de signature de la ou des personnes autorisées à signer les certificats de conformité et indication de leurs fonctions dans la société**  
Name(s) and specimen(s) of the signature(s) of the person(s) authorised to sign certificates of conformity and a statement of their position in the company
- **Spécimen complété du certificat de conformité**  
A completed specimen of the certificate of conformity

**NB:**

NB:

not applicable

**Addendum à la fiche de réception UE par type**  
Addendum to the EU type-approval certificate

**Liste des actes réglementaires aux prescriptions desquels le type de véhicule satisfait**  
List of regulatory acts with which the type of vehicle complies

refer to Appendix 3 – Page 6 to 8 of inspection report N°CN-118-2-134-WHO23-07035-IR



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Bertrange, le 25 septembre 2023

## Index du dossier de réception

Index to type-approval report

|    |  |   |
|----|--|---|
|    | <b>Numéro de réception UE par type:</b><br>EU type-approval number:                              | e13*168/2013*01895*00   |
|    | <b>Révision:</b><br>Revision:  | 00  |
|    | <b>Marque de fabrication ou de commerce:</b><br>Trade name or mark:                              | SHANSU, Easycool, yuki, HIMOTO, aMoto, CITYCOCO,<br>Rooley, Rooder, Strollwheel, HECHT MOTORS, ZMOTOS,<br>MALCOR IBÉRICA, R RETELLI |
|    | <b>Type:</b><br>Type:  | HM-6  |
| 1. | <b>Procès-verbal d'essai:</b><br>Test report:  | N° CN-118-2-134-WHO23-07035-IR  |
|    | - Cover sheet:   | Page 1;   |
|    | - Test report history:   | Page 2 ;  |
|    | - Vehicle specification of tested vehicle:   | Appendix 2.1- Page 3 & 4;<br>Appendix 2.2- Page 5;  |
|    | - Addendum to the EU-type approval certificate:  | Appendix 3 - Page 6 to 81.  |
| 2. | <b>Dossier du constructeur:</b><br>Report of the manufacturer:                                   | N° HM-6-00  |
|    | - Manufacturer's information document:   | Page 1 to 80.   |
| 3. | <b>Autres documents annexés:</b><br>Other documents annexed:                                     | not applicable  |
| 4. | <b>Date de délivrance de la réception initiale:</b><br>Date of issue of initial type approval:   | 25.09.2023  |
| 5. | <b>Date de la dernière délivrance de pages révisées:</b><br>Date of last issue of revised pages: | not applicable  |
| 6. | <b>Date de la dernière délivrance d'une réception révisée:</b><br>Date of last extension:        | not applicable  |



LE GOUVERNEMENT  
DU GRAND-DUCHÉ DE LUXEMBOURG  
Ministère de la Mobilité  
et des Travaux publics

Département de la mobilité  
et des transports

SOCIÉTÉ NATIONALE DE  
CERTIFICATION ET D'HOMOLOGATION  
S.A.

Registre de Commerce: B 27180



L-8070 Bertrange

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Bertrange, le 25 septembre 2023

**Annexe VIII**  
Annex VIII

**Fiche des résultats d'essais**  
Test results sheet

refer to Appendix 3 - Page 6 to 81 of test report N°CN-118-2-134-WHO23-07035-IR







**CETOC TS**

CETOC Technical Service srl  
Via della Bufalotta, 374,  
00139 Roma

Inspection Report Nr.: CN-118-2-134-WHO23-07035-IR  
Manufacturer: ZHEJIANG YIXING INDUSTRY AND TRADE  
LIMITED  
Type: HM-6

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Membro degli Accordi di Mutuo Riconoscimento  
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### APPENDIX 1 - TEST REPORT HISTORY

*List this report and previous reports, with extension details.*

| Inspection Report Number    | Reason for Extension | Date of Issue  |
|-----------------------------|----------------------|----------------|
| CN-118-2-134-WHO23-07035-IR | First applicable     | 08 August 2023 |
|                             |                      |                |

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## APPENDIX 2.1 – VEHICLE SPECIFICATION OF TESTED VEHICLE IF EQUIPPED WITH COMBUSTION ENGINE

**Not applicable for Pure Electric Moped**

|        |                               |   |  |
|--------|-------------------------------|---|--|
| 1.1.   | Variant/Version               | : |  |
| 1.2    | Vehicle Identification Number | : |  |
| 1.3.   | Engine Type                   | : |  |
| 1.3.1. | Engine family                 | : |  |
| 1.4.   | Engine Capacity (cm3)         | : |  |
| 1.5    | No. of Cylinders              | : |  |
| 1.6    | Engine Layout                 | : |  |
| 1.7    | Engine Cooling                | : |  |
| 1.8    | Reference Fuels               | : |  |
| 1.9    | Fuel Tank                     | : |  |
| 1.10   | Canister                      | : |  |
| 1.11   | Fuel Feed                     | : |  |
| 1.12   | Spark Plug                    | : |  |
| 1.13   | Intake System                 | : |  |
| 1.14   | Exhaust System                | : |  |
| 1.14.1 | Lambda Sensor                 | : |  |
| 1.14.2 | Secondary Air                 | : |  |
| 1.14.3 | Catalyst                      | : |  |
| 1.15   | ECU                           | : |  |
| 1.16   | OBD                           | : |  |
| 1.17   | Maximum Power (kW)            | : |  |
| 1.18   | Maximum Torque(Nm)            | : |  |
| 1.19   | Idle Speed                    | : |  |
| 1.20   | Transmission                  | : |  |
| 1.20.1 | Primary                       | : |  |
| 1.20.2 | Secondary                     | : |  |
| 1.20.3 | Final                         | : |  |
| 1.21   | Actual mass (kg)              | : |  |
| 1.22   | Inertial Mass (kg)            | : |  |
| 1.23   | Vehicle Length:               | : |  |
| 1.24   | Maximum Design Speed          | : |  |
| 1.25   | PMR                           | : |  |
| 1.26   | aWot,ref                      | : |  |
| 1.27   | aUrban                        | : |  |
| 1.28   | Reference Length (lRef)       | : |  |



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|                |        |                           |   |  |
|----------------|--------|---------------------------|---|--|
| Not applicable | 1.29   | Gear Weighting Factor (K) | : |  |
|                | 1.30   | Partial Power Factor (Kp) | : |  |
|                | 1.31   | Tyre                      | : |  |
|                | 1.31.1 | Dimension                 | : |  |
|                | 1.31.2 | Pressure (kPa)            | : |  |
|                | 1.31.3 | Rolling Circ. (mm)        | : |  |



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## APPENDIX 2.2 – VEHICLE SPECIFICATION OF TESTED VEHICLE IF EQUIPPED WITH ELECTRIC MOTOR

|              |   |   |   |
|--------------|---|---|---|
| <b>1.1.</b>  | <b>Variant/Version</b>  |   | Variant 00 / Version 00<br>Variant 01 / Version 00  |
| 1.2.         | Vehicle Identification Number                                       | : | Variant 00: ☆R68HM6000PA000001☆<br>Variant 01: ☆R68HM6010PA000001☆                            |
| 1.3.         | Type of propulsion  | : | Pure Electric   |
| 1.4.         | Electric motor code   | : | HM6SS000000001  |
| 1.5.         | Electric motor layout   | : | Direct drive rear axle  |
| 1.6.         | Electric motor cooling  | : | air cooling   |
| 1.7.         | ECU Electric motor control unit                                     | : | Variant 00: SS12-60V-YTC<br>Variant 01: SS12-60V-YTC 25KM/H                                   |
| 1.8.         | OBD   | : |   |
| <b>1.9.</b>  | <b>Propulsion battery</b>   |   |   |
| 1.9.1.       | Kind of electrochemical couple                                      | : | Lithium   |
| 1.9.2.       | Battery voltage   | : | 60 V  |
| 1.9.3.       | Battery capacity  | : | 50 Ah   |
| 1.10.        | Charger   | : | HLT-180-672200 (60V2A)  |
| 1.11.        | Maximum continuous-rated power electric motor (±5/30 minutes power) | : | Variant 00: 3.0 kW @ 340 min <sup>-1</sup><br>Variant 01: 3.0 kW @ 200 min <sup>-1</sup>      |
| 1.12.        | Maximum continuous-rated torque electric motor                      | : | Variant 00: 84.3 N.m @ 340 min <sup>-1</sup><br>Variant 01: 143.2 N.m @ 200 min <sup>-1</sup> |
| <b>1.13.</b> | <b>Transmission</b>   |   |   |
| 1.13.1       | Internal ratio / primary ratio / secondary ratio                    | : | 1   |
| 1.13.2       | Final   | : | 1   |
| 1.14.        | Actual mass (kg)  | : | 182   |
| 1.14.1       | Inertial Mass (kg)  | : | 180   |
| 1.15.        | Maximum Design Speed:   |   | Variant 00: 45 km/h<br>Variant 01: 25 km/h  |
| <b>1.16.</b> | <b>tyres</b>  |   | Front/Rear Tyre   |
|              | Dimension   | : | Front: 110/70-17 M/C, Rear: 120/80-17 M/C   |
| 1.16.1.      | Pressure (kPa)  | : | Front: 250 kPa, Rear: 225 kPa   |
| 1.16.2.      | Rolling Circ. (mm)  | : | Front: 1837mm, Rear: 1959mm   |



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### APPENDIX 3 - ADDENDUM TO THE EU TYPE- APPROVAL CERTIFICATE

#### A. ENVIRONMENTAL AND PROPULSION UNIT PERFORMANCE REQUIREMENTS (EPPR)

| Nr. | Subject  | Commission Delegated Regulation (EU) No Including last amendment | PASS                                | FAIL                     | N/A                                 | COVER BY PREVIOUS EXTENSION |
|-----|--|--|-------------------------------------|--------------------------|-------------------------------------|-----------------------------|
| A1. | Tailpipe emissions after cold start  | 134/2014 Annex II (EU) 2018/295                                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
|     | Tailpipe emissions at (increased) idle/ free acceleration  | 134/2014 Annex III (EU) 2018/295                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
|     | Durability of pollution- control devices   | 134/2014 Annex VI (EU) 2018/295                                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
|     | CO <sub>2</sub> emissions, fuel consumption, electric energy consumption and electric range  | 134/2014 Annex VII (EU) 2018/295                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| A2  | Emissions crankcase gases  | 134/2014 Annex IV (EU) 2018/295                                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
| A3  | Evaporative emissions  | 134/2014 Annex V (EU) 2018/295                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
| A4  | OBD Environmental tests  | 134/2014 Annex VIII (EU) 2018/295                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
| A5  | Sound level  | 134/2014 Annex IX (EU) 2018/295<br>UNECE R41.04                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
| A6  | Procedures and technical requirements on maximum vehicle design speed, maximum torque, maximum continuous total power and maximum peak power | 134/2014 Annex X (EU) 2018/295<br>UNECE R85.00                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| A7  | Vehicle propulsion family definition   | 134/2014 Annex XI (EU) 2018/295                                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |

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Inspection Report Nr.: CN-118-2-134-WHO23-07035-IR  
Manufacturer: ZHEJIANG YIXING INDUSTRY AND TRADE  
LIMITED  
Type: HM-6

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**B. VEHICLE FUNCTIONAL SAFETY REQUIREMENTS (VFSR)**

| Nr. | Subject   | Commission Delegated Regulation (EU) No including last amendment | PASS                                | FAIL                     | N/A                                 | COVER BY PREVIOUS EXTENSION |
|-----|---|--|-------------------------------------|--------------------------|-------------------------------------|-----------------------------|
| B1  | Audible warning devices   | 3/2014 Annex II<br>2016/1824<br>UNECE R28.00                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| B2  | Braking, including anti- lock and combined brake systems  | 3/2014 Annex III<br>2016/1824<br>UNECE R78.04                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| B3  | Electrical safety   | 3/2014 Annex IV<br>2016/1824<br>UNECE R100.02                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| B4  | Endurance Testing of Functional Safety Critical Systems, Parts and Equipment                      | 3/2014 Annex V<br>2016/1824                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| B5  | Front and rear protective structures  | 3/2014 Annex VI<br>2016/1824                                     | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
| B6  | Glazing, windscreen wipers and washers, and defrosting and demisting systems                      | 3/2014 Annex VII<br>2016/1824                                    | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
| B7  | Driver-operated controls including identification of controls, tell-tales and indicators          | 3/2014 Annex VIII<br>2016/1824<br>UNECE R60.00<br>UNECE R39.01   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| B8  | Installation of lighting and light- signalling devices, including automatic switching of lighting | 3/2014 Annex IX<br>2016/1824<br>UNECE R53.03 (Motorcycle)        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| B9  | Rearward visibility   | 3/2014 Annex X<br>2016/1824<br>UNECE R81.00                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| B10 | Rollover protective structure (ROPS)  | 3/2014 Annex XI<br>2016/1824                                     | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
| B11 | Safety-belt anchorages and safety- belts  | 3/2014 Annex XII<br>2016/1824                                    | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
| B12 | Seating positions (saddles and seats)   | 3/2014 Annex XIII<br>2016/1824                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| B13 | Steer-ability, cornering properties and turn- ability   | 3/2014 Annex XIV<br>2016/1824                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| B14 | Installation of tyres   | 3/2014 Annex XV<br>2016/1824<br>UNECE R75.00                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| B15 | Vehicle maximum speed limitation plate and its location on the vehicle                            | 3/2014 Annex XVI<br>2016/1824                                    | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
| B16 | Vehicle occupant protection, including interior fittings and vehicle doors                        | 3/2014 Annex XVII<br>2016/1824                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
| B17 | Maximum continuous total power and/or maximum vehicle speed limitation by design                  | 3/2014 Annex XVIII<br>2016/1824                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| B18 | Vehicle structure integrity   | 3/2014 Annex XIX<br>2016/1824                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |



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### C. VEHICLE CONSTRUCTION AND GENERAL TYPE-APPROVAL REQUIREMENTS (VCR)

| Nr. | Subject   | Commission Delegated Regulation (EU) No including last amendment | PASS                                | FAIL                     | N/A                                 | COVER BY PREVIOUS EXTENSION |
|-----|---|--|-------------------------------------|--------------------------|-------------------------------------|-----------------------------|
| C1  | Powertrain tampering prevention (anti-tampering) measures | 44/2014 Annex II (EU) 2018/295                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| C2  | Arrangements for type-approval                            | 44/2014 Annex III (EU) 2018/295                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| C3  | Conformity of production (CoP)                            | 44/2014 Annex IV (EU) 2018/295                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| C4  | Coupling devices and attachments                          | 44/2014 Annex V (EU) 2018/295                                    | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
| C5  | Devices to prevent unauthorised use                       | 44/2014 Annex VI (EU) 2018/295<br>UNECE R62.01                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| C6  | Electromagnetic compatibility (EMC)                       | 44/2014 Annex VII (EU) 2018/295<br>UNECE R10.06                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| C7  | External projections                                      | 44/2014 Annex VIII (EU) 2018/295                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| C8  | Fuel storage  | 44/2014 Annex IX (EU) 2018/295                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
| C9  | Load platforms  | 44/2014 Annex X (EU) 2018/295                                    | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
| C10 | Masses and dimensions                                     | 44/2014 Annex XI (EU) 2018/295                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| C11 | Functional on-board diagnostics (OBD)                     | 44/2014 Annex XII (EU) 2018/295                                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>    |
| C12 | Passenger handholds and footrests                         | 44/2014 Annex XIII (EU) 2018/295                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| C13 | Registration plate space                                  | 44/2014 Annex XIV (EU) 2018/295                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| C14 | Access to repair and maintenance information              | 44/2014 Annex XV (EU) 2018/295                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |
| C15 | Stands  | 44/2014 Annex XVI (EU) 2018/295                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |

### D. VEHICLE CONSTRUCTION AND GENERAL TYPE-APPROVAL REQUIREMENTS (VCR)

| Nr. | Subject         | Commission Delegated Regulation (EU) No including last amendment | PASS                                | FAIL                     | N/A                      | COVER BY PREVIOUS EXTENSION |
|-----|-----------------|--|-------------------------------------|--------------------------|--------------------------|-----------------------------|
| D1  | Statutory plate | 901/2014 Annex V (EU) 2020/239                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>    |



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## APPENDIX 3 A1

**Test Type I Requirements Tailpipe Emissions after Cold Start**  
**Test Type II Requirements Tailpipe Emissions at (increased) Idle and Free Acceleration**  
**Test Type V Requirements Durability of Pollution-control Devices**  
**Test Type VII Requirements Energy efficiency: CO2 emissions, fuel consumption, electric energy consumption and electric range**

|             |  |   |  |
|-------------|--|---|--|
| <b>0.</b>   | <b>Main Requirements</b>   | : |  |
| 0.1.        | Requirements according to  | : | Reg. (EU) 134/2014, Annex VII<br>Including amendment (EU) 2018/295   |
| <b>1.</b>   | <b>Witness details</b>   | : |  |
| 1.1.        | Witness  | : | Will Xu  |
| 1.2.        | Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>China |
| 1.3.        | Date of Test   | : | 2023/05/26 to 2023/07/18   |
| 1.4.        | Worst Case Rationale   | : | Both variants tested   |
| 1.5.        | Tested vehicle   | : | ☆R68HM6000PA000001☆<br>☆R68HM6010PA000001☆   |
| <b>1.6.</b> | <b>Facility and Equipment Checks</b>   | : |  |
| 1.6.1.      | Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Conform  |
| 1.6.2.      | All instruments are equipped with identification<br>label  | : | Yes  |
| 1.6.3.      | Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Yes  |
| 1.6.4.      | Guideline Cetoc TS IST71D has been<br>compiled   | : | Yes  |

| Equipment                              | Serial / Certificate No.              | Calibration due |
|--|---------------------------------------|-----------------|
| MCJ-400 motorcycle chassis dynamometer | MCJ-400 190911 /<br>37XJ23051051-0026 | 09.05.2024      |
| Digital power meter                    | 180808052 /<br>CN37XJ23051051-0023    | 09.05.2024      |
|  |                                       |                 |

|            |  |   |   |
|------------|--|---|---|
| <b>2.</b>  | <b>Annex II - Test results sheet</b>   |   |   |
| 2.2.1.     | <b>(A) Environmental and propulsion unit performance</b>                           |   |   |
| 2.2.1.1.   | <b>Generic information on environmental performance</b>                            |   |   |
| 2.2.1.1.1. | Description of propulsion, propulsion family<br>and drive-train of test vehicle(s) | : | Single electric motor direct drive rear axle    |
| 2.2.1.1.2. | Environmental step of test vehicle:  | : | <del>Euro 4</del> / Euro 5 / <del>Euro 5+</del> |
| 2.2.1.1.3. | Description of emission test bench(es),<br>specifications and settings             | : | Zhongcheng / MCJ-400 (Roller diameter: 526 mm)  |





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|                 |   |   |   |
|-----------------|---|---|---|
| 2.2.1.1.4.      | Chassis/engine dynamometer(s) specifications  | : | YH / ZF-200KB   |
| 2.2.1.1.5.      | Inertia (reference) mass and running resistance settings for single/dual roll chassis dynamometer   | : | Variant 00 / version 00, Variant 01 / version 00<br><br>Inertia= 180 kg<br>a= 15.8 (N)<br>b= 0.0227 (N/(km/h) <sup>2</sup> )<br>c=- |
| 2.2.1.1.6.      | Comprehensive report of road test results for the determination of test bench settings, including coast down times for single/dual roll chassis dynamometer   | : | Not applicable  |
| 2.2.1.1.7.      | Applicable test type I driving schedule: (ECE R40 (with/without EUDC), ECE R47, WMTC stage 1, WMTC stage 2, revised WMTC)   | : | Revised WMTC  |
| 2.2.1.1.8.      | Description gearshift prescriptions for environmental testing   | : | Not applicable  |
| <b>2.2.1.2.</b> | <b>Test type I: requirements: tailpipe emissions after cold start</b><br><b>The following items specific to test type I shall be provided</b>   |   |   |
| 2.2.1.2.1.      | Description of tested vehicle(s) (prototype(s) or series production, hardware and software levels, VIN)   | : | Not applicable  |
| 2.2.1.2.2.      | Any deviations by test vehicle(s) from data provided in information document, Annex I<br>If yes, please provide list with deviations.   | : | Yes/No  |
| 2.2.1.2.3.      | Type-approval number if not parent vehicle:   | : | Not applicable  |
| 2.2.1.2.4.      | Mileage(s) of test vehicle(s)   | : |   |
| 2.2.1.2.5.      | Test fuel(s) used   | : | Not applicable  |
| 2.2.1.2.6.      | Description of test type I measurement methods for hybrid L-category vehicles referred to in Appendix 11 to Annex II to Commission Delegated Regulation (EU) No 134/2014                                | : | Not applicable  |
| 2.2.1.2.7.      | Description of test type I measurement methods for gas-fuelled vehicles referred to in Appendix 12 to Annex II to Commission Delegated Regulation (EU) No 134/2014                                      | : | Not applicable  |
| 2.2.1.2.8.      | Description of test type I measurement methods for vehicles equipped with a periodically regenerating system referred to in Appendix 13 to Annex II to Commission Delegated Regulation (EU) No 134/2014 | : | Not applicable  |
| 2.2.1.2.9.      | Information on regeneration strategy  | : |   |
|                 | D (number of operating cycles between 2 cycles when regenerative phases occur)  | : | Not applicable  |
|                 | d (number of operating cycles required for regeneration)  | : | Not applicable  |
| 2.2.1.2.10.     | Description of weighting of type I test results as referred to in point 6.1.1.5. of Annex II to Commission Delegated Regulation (EU) No   |   |   |



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|  |   |                |
|--|---|----------------|
| 134/2014 including equation number and weighting factors   | : | Not applicable |
| 2.2.1.2.11. Number of type I operating cycles between two cycles where regenerative phases occur under the conditions equivalent to type I test (Distance 'D' in Figure Ap13-1 in Appendix 13 to Annex II to Commission Delegated Regulation (EU) No 134/2014) | : | Not applicable |
| 2.2.1.2.12. Description of method employed to determine the number of cycles between two cycles where regenerative phases occur  | : | Not applicable |
| 2.2.1.2.13. Parameters to determine the level of loading required before regeneration occurs (i.e. temperature, pressure etc.)   | : | Not applicable |
| 2.2.1.2.14. Description of method used to load system in the test procedure described in point 3.1. of Appendix 13 to Annex II to Commission Delegated Regulation (EU) No 134/2014)  | : | Not applicable |
| 2.2.1.2.15. Test records according to point 7 of Annex II to Commission Delegated Regulation (EU) No 134/2014  | : | Not applicable |
| 2.2.1.2.16. Type I test results  | : |                |

## Euro 5 limit

| Table 5-1<br>Test type 1 results                                  |          |         |         |       |         |          |    |
|---|----------|---------|---------|-------|---------|----------|----|
| Test Type I Test Results (TR <sub>TTI</sub> )                     | Test No. | CO      | THC     | NMHC  | NOx     | THC+ NOx | PM |
| TR TTI Measured x (i) (iv) (mg/km)                                | 1        |         |         |       |         | --       | -- |
|   | 2        | --      | --      | --    | --      | --       | -- |
|   | 3        | --      | --      | --    | --      | --       | -- |
| TR TTI Measured x Mean (i) (iv) (mg/km)                           |          | #DIV/0! | #DIV/0! |       | #DIV/0! | --       | -- |
| Ki (i) (v) (vii)  |          | 1       | 1       | 1     | 1       | --       | -- |
| TR TTIX (i) (iv) = Ki · TR <sub>TTI Measured x Mean</sub> (mg/km) |          | #DIV/0! | #DIV/0! | 0     | #DIV/0! | --       | -- |
| (% of L x)  |          | #DIV/0! | #DIV/0! | 0.00% | #DIV/0! | --       | -- |
| Limit value L x (viii) (mg/km)                                    |          | 1000    | 100     | 68    | 60      | --       | -- |

### 2.2.1.3. Test type II requirements: tailpipe emissions at (increased idle)/free acceleration

|  |   |                |
|--|---|----------------|
| 2.2.1.3.1. Details of test vehicle(s) if different from vehicle used for type I testing:<br>(items 2.1.2.1.1. to 2.1.2.1.4. where different) | : | Not applicable |
| 2.2.1.3.2. Description of propulsion idling activation method in case of stop-start system:  | : | Not applicable |



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| Table 5-2<br>Test type II results                        |       |          |        |              |                        |  |
|--|-------|----------|--------|--------------|------------------------|--|
| Test   | HC    | CO       | Lambda | Engine speed | Engine oil temperature | Measured & corrected value of absorption coefficient |
|  | (ppm) | (% vol.) |        | (min-1)      | (K)                    |  |
| PI: Low idle test  |       |          |        |              |                        | --   |
| PI: High idle test                                       |       |          |        |              |                        | --   |
| CI — Free acceleration test / Smoke opacity test results | --    | --       | --     | --           | --                     | --   |

### 2.2.1.6. Test type V requirements: durability of pollution-control devices

- 2.2.1.6.1. Details of test vehicle(s), its powertrain and pollution-control devices explicitly documented and listed, emission test laboratory equipment and settings, if different from data reported under items 2.1.2.1.1. to 2.1.2.1.10 : Not applicable
- 2.2.1.6.2. Test type V carried out on : ~~test track, on the road, on a chassis dynamometer~~
- 2.2.1.6.3. The test type V data outcome and the correspondent test report shall vary in relation with the chosen durability procedure set out in Article 23(3) of Regulation (EU) No 168/2013, established as follows : Not applicable
- 2.2.1.6.3.1. Test type V conducted according to Article 23(3a) : ~~full mileage accumulation~~
- 2.2.1.6.3.1.1. Test cycle used : ~~US EPA AMA cycle, SRC-LeCV~~
- 2.2.1.6.3.1.2. In the case of SRC-LeCV, applicable durability test cycle vehicle group, refer to Appendix 1 to Annex V to Commission Delegated Regulation (EU) No 134/2014 : Not applicable
- 2.2.1.6.3.1.3. In the case of SRC-LeCV, amount of test type V soak procedures : Not applicable
- 2.2.1.6.3.1.4. In the case of US EPA AMA cycle, classification according to Appendix 2 to Annex V to Commission Delegated Regulation (EU) No 134/2014 : Not applicable
- 2.2.1.6.3.1.5. Mileage test vehicle(s) : Not applicable
- 2.2.1.6.3.1.6. Catalyst time-at-temperature data histogram : Not applicable
- List of maintenance and adjustments over mileage accumulation : Not applicable
- 2.2.1.6.3.1.7. The collection of test type I results (1 to n), ( see 2.2.1.2.16.), the calculated slopes and offsets, and the calculated test type V results shall be entered in the table below : Not applicable



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Table 5-5

**Test type V results in case of compliance with Article 23(3a) of Regulation (EU) No 168/2013**

| Test Type V Test Results (TR TTVx ) | Test No. | Accumulated mileage (km) | CO    |         | THC   |         | NMHC  |         | NOx   |         | THC+NOx |         | PM    |         |
|-------------------------------------|----------|--------------------------|-------|---------|-------|---------|-------|---------|-------|---------|---------|---------|-------|---------|
|                                     |          |                          | mg/km | % of Lx | mg/km | % of Lx | mg/km | % of Lx | mg/km | % of Lx | mg/km   | % of Lx | mg/km | % of Lx |
| TR TTVx                             | 1        |                          |       |         |       |         |       |         |       |         |         |         |       |         |
| TR TTVx                             | 2        |                          |       |         |       |         |       |         |       |         |         |         |       |         |
| TR TTVx                             | 3        |                          |       |         |       |         |       |         |       |         |         |         |       |         |
| TR TTVx                             | N        |                          |       |         |       |         |       |         |       |         |         |         |       |         |
| Limit value Lx                      |          |                          |       |         |       |         |       |         |       |         |         |         |       |         |

|                 |  |   |                |
|-----------------|--|---|----------------|
| 2.2.1.6.3.2.    | Test type V conducted according to Article 23(3b)  | : | Not applicable |
| 2.2.1.6.3.2.1.  | Test cycle used (SRC-LeCV)   | : | Not applicable |
| 2.2.1.6.3.2.2.  | Applicable SRC-LeCV durability test cycle vehicle group: refer to Commission Delegated Regulation (EU) No 134/2014   | : | Not applicable |
| 2.2.1.6.3.2.3.  | Amount of SRC-LeCV soak procedures   | : | Not applicable |
| 2.2.1.6.3.2.4.  | Mileage test vehicle(s)  | : | Not applicable |
| 2.2.1.6.3.2.5.  | Applied stop criteria  | : | Not applicable |
| 2.2.1.6.3.2.6.  | List of 'golden components' complete with series, part and marking number  | : | Not applicable |
| 2.2.1.6.3.2.7.  | List of 'new components' complete with series, part and marking number   | : | Not applicable |
| 2.2.1.6.3.2.8.  | Catalyst time-at-temperature data histogram  | : | Not applicable |
| 2.2.1.6.3.2.9.  | List of maintenance and adjustments over mileage accumulation  | : | Not applicable |
| 2.2.1.6.3.2.10. | The collection of test type I results (1 to n), (see 2.2.1.2.16.), the calculated slopes and offsets, and the calculated test type V results shall be entered in the table below | : | Not applicable |

Table 5-6

**Test type V results in case of compliance with Article 23(3b) of Regulation (EU) No 168/2013**

| Test Type V Test Results (TR TTVx )                            | Test No. | Accumulated mileage (km) | CO    |         | THC   |         | NMHC  |         | NOx   |         | THC+NOx |         | PM    |         |
|--|----------|--------------------------|-------|---------|-------|---------|-------|---------|-------|---------|---------|---------|-------|---------|
|  |          |                          | mg/km | % of Lx | mg/km | % of Lx | mg/km | % of Lx | mg/km | % of Lx | mg/km   | % of Lx | mg/km | % of Lx |
| TR TTVx  | 1        | 100                      |       |         |       |         |       |         |       |         |         |         |       |         |
| Slope a  |          |                          |       |         |       |         |       |         |       |         |         |         |       |         |
| Offset b   |          |                          |       |         |       |         |       |         |       |         |         |         |       |         |
| Final calculated TR<br>$TTV_{Fin} = a \cdot TR_{TTV_{nx}} + b$ | N        |                          |       |         |       |         |       |         |       |         |         |         |       |         |
| Limit value Lx   |          |                          |       |         |       |         |       |         |       |         |         |         |       |         |

|                |   |   |                                   |
|----------------|---|---|-----------------------------------|
| 2.2.1.6.3.3.   | Test type V conducted according to Article 23(3c) of Regulation (EU) No 168/2013  | : | mathematical durability procedure |
| 2.2.1.6.3.3.1. | The Test Type I results of a vehicle with a mileage of 100 km or more, (see 2.2.1.2.16.), and the applicable deterioration factors set out in Annex VII(B) to Regulation (EU) No 168/2013 shall be entered in the table below along with the calculated test type V results | : | Not applicable                    |



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Table 5-7

**Test type V results in case of compliance with Article 23(3c) of Regulation (EU) No 168/2013**

| Test Type V Test Results (TR TTVx)         | Test No. | Accumulated mileage (km) | CO    |         | THC   |         | NMHC  |         | NOx   |         | THC+NOx |         | PM    |         |
|--|----------|--------------------------|-------|---------|-------|---------|-------|---------|-------|---------|---------|---------|-------|---------|
|  |          |                          | mg/km | % of Lx | mg/km | % of Lx | mg/km | % of Lx | mg/km | % of Lx | mg/km   | % of Lx | mg/km | % of Lx |
| TR TTVx                                    | 1        | --                       | --    | --      | --    | --      | --    | --      | --    | --      | --      | --      | --    | --      |
| Deterioration Factor DF x                  |          |                          | 1.3   |         | 1.3   |         | 1.3   |         | 1.3   |         | --      |         | --    |         |
| Final calculated TR TTVFin= DFx · TR TTVnx |          |                          | --    |         | --    |         | --    |         | --    |         | --      |         | --    |         |
| Limit value L x                            |          |                          | 1000  |         | 100   |         | 68    |         | 60    |         | --      |         | --    |         |

2.2.1.7. Test type VI has not been assigned; consequently, there are no results to be submitted

**2.2.1.8. Test type VII requirements: measurement of CO<sub>2</sub> emissions, fuel consumption, electric energy consumption and electric range determination**

|                   |  |   |                |
|-------------------|--|---|----------------|
| 2.2.1.8.1.        | Details of test vehicle(s), its powertrain and pollution-control devices explicitly documented and listed, emission test laboratory equipment and settings if different from data reported under items 2.1.2.1.1. to 2.1.2.1.10  | : | Not applicable |
| 2.2.1.8.2.        | Documentation added according to UNECE Regulation No 101 (OJ L 138, 26.5.2012, p. 1)   | : | yes/no         |
| 2.2.1.8.3.        | The vehicle manufacturer has ensured that the CO <sub>2</sub> emissions, fuel consumption, electric energy consumption and electric range data are provided to the buyer of the vehicle at the time of purchase of a new vehicle | : | yes            |
| 2.2.1.8.4.        | A completed specimen of the test type VII result format used to inform the buyer of the new vehicle is added to the information document   | : | yes            |
| 2.2.1.8.5.        | Type VII test results, where applicable and for each reference fuel tested   | : | Not applicable |
| <b>2.2.1.8.6.</b> | <b>CO<sub>2</sub> emissions and fuel consumption</b>   |   |                |

Table 5-8

**Test Type VII result table for propulsions equipped with a combustion engine only or equipped with not-externally-chargeable (NOVC) hybrid electric propulsion**

| Test Type VII Test Results (TR <sub>TTVII</sub> )                    | Test No | CO <sub>2</sub> | Fuel consumption         |
|--|---------|-----------------|--------------------------|
|  |         | g/km            | (l/100km) or (kg/100 km) |
| TR <sub>TTI Measured x</sub>   | 1       |                 |                          |
|  | 2       |                 |                          |
|  | 3       |                 |                          |
| TR <sub>TTI Measured Mean</sub>                                      |         |                 |                          |
| Ki   |         | 1               | 1                        |
| TR <sub>TTVIIx</sub> = Ki · TR <sub>TTI Measured x Mean</sub>        |         |                 |                          |
| CO <sub>2</sub> and Fuel consumption as declared by the manufacturer |         |                 |                          |



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2.2.1.8.7. **Electric energy consumption and electric range**

Measurement of the electric range

|               |   |                          |
|---------------|---|--------------------------|
| 2.2.1.8.7.1.  | If the vehicle has several driving modes which may be selected by the driver, the operator shall select that which best matches the target curve  | : Conform/not applicable |
| 2.2.1.8.7.2.  | The vehicle tyres shall be inflated to the pressure specified by the vehicle manufacturer when the tyres are at ambient temperature   | : Yes                    |
| 2.2.1.8.7.3.  | The viscosity of the oils for the mechanical moving parts shall conform to the vehicle manufacturer's specification   | : Yes                    |
| 2.2.1.8.7.4.  | The lighting, signalling and auxiliary devices shall be off, except those required for the testing and usual day-time operation of the vehicle  | : Yes                    |
| 2.2.1.8.7.5.  | All energy storage systems for other than traction purposes (electric, hydraulic, pneumatic, etc.) shall be charged to their maximum level as specified by the manufacturer.  | : Yes                    |
| 2.2.1.8.7.6.  | If the batteries are operated above the ambient temperature, the operator shall follow the procedure recommended by the vehicle manufacturer in order to keep the battery temperature in the normal operating range   | : Yes                    |
| 2.2.1.8.7.7.  | The vehicle shall have travelled at least 300 km in the seven days before the test with the batteries installed for the test  | : Yes                    |
| 2.2.1.8.7.8   | Climatic conditions<br><del>For testing performed outdoors, the ambient temperature shall be between 278,2 K and 305,2 K (5 °C and 32 °C).</del><br>The indoor testing shall be performed at a temperature of between 275,2 K and 303,2 K (2 °C and 30 °C).   | : Yes                    |
| 2.2.1.8.7.9.  | Initial charge of the battery<br>Charging the battery consists of the following procedure:<br>The 'initial charge' of the battery means the first charge of the battery, on reception of the vehicle. Where several combined tests or measurements are carried out consecutively, the first charge shall be an 'initial charge' and the subsequent charges may follow the 'normal overnight charge' procedure set out in 3.2.2.4. of Appendix 3 of reg. EU 134/2014.  | : Yes                    |
| 2.2.1.8.7.10. | Discharge of the battery<br>For pure electric vehicles:<br>The procedure starts with the discharge of the battery of the vehicle while driving ( <del>on the test track</del> , on a chassis dynamometer, etc.) at a steady speed of 70 percent ± 5 percent of the maximum design vehicle speed, which is to be determined according to the test procedure in Appendix 1 to Annex X.<br>Discharging shall stop under any of the following conditions:<br>(a) when the vehicle is unable to run at 65 percent of the maximum thirty minutes speed;<br>(b) <b>when the standard on-board instrumentation indicates that the vehicle should be stopped;</b><br>(c) after 100 km.<br>By means of derogation if the manufacturer can prove to the technical service to the satisfaction of the approval authority that the vehicle is physically not capable of achieving the thirty minutes speed the maximum fifteen minute speed may be used instead. | : Yes                    |
| 2.2.1.8.7.11. | Normal overnight charge<br>For a pure electric vehicle, the battery shall be charged according to the normal overnight charge procedure, as defined in point 2.4.1.2. of Appendix 2, for a period not exceeding twelve hours.   | : Yes                    |



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- 2.2.1.8.7.12. Application of the cycle and measurement of the range.  
For pure electric vehicles:  
The test sequence set out in the Appendices shall be carried out on a chassis dynamometer adjusted as described in Annex II, until the test criteria are met.  
The test criteria shall be deemed as having been met when the vehicle is unable to meet the target curve up to 50 km/h, or when the standard **on-board instrumentation indicates that the vehicle should be stopped.**  
The vehicle shall then be slowed to 5 km/h without braking by releasing the accelerator pedal, and then stopped by braking.  
At speeds of over 50 km/h, when the vehicle does not reach the acceleration or speed required for the test cycle, the accelerator pedal shall remain fully depressed, or the accelerator handle shall be turned fully, until the reference curve has been reached again.  
Up to three interruptions, of no more than 15 minutes in total, are permitted between test sequences.  
The distance covered in km (De) is the electric range of the electric vehicle. It shall be rounded to the nearest whole number.
- 2.2.1.8.7.13. Final Test result

Variant 00 Version 00  
Variant 01 Version 00  
Variant 00 Version 00:  
De: 52 km  
Variant 01 Version 00:  
De: 64 km

:  
:  
: See table 5-9





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### 2.2.1.8.8. **Electric energy consumption and electric range**

#### **Method of measuring the electric energy consumption of a vehicle powered by an electric powertrain only**

2.2.1.8.8.1. to 2.2.1.8.8.7 Refer from 2.2.1.8.7.1. to 2.2.1.8.7.7.

Yes

2.2.1.8.8.8. In order to measure its electric consumption in the type I test cycle, the test vehicle shall be classified according to the achievable maximum design vehicle speed thresholds only, set-out in point 4.3. of Annex II.

Selected Test cycle: Revised WMTC

2.2.1.8.8.9. All the tests are conducted at a temperature of between 293,2 K and 303,2 K (20 °C and 30 °C).

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24.0 °C

28.0 °C

2.2.1.8.8.10. Initial charge of the battery  
Charging the battery consists of the following procedures:

2.2.1.8.8.10.1. Discharge of the battery  
The battery is discharged while the vehicle is driven ~~(on the test track,~~ on a chassis dynamometer, etc.) at a steady speed of 70 percent  $\pm$  5 percent of the maximum design vehicle speed, as determined according to the test procedure in Appendix 1 to Annex X.  
Discharging shall stop:  
(a) when the vehicle is unable to run at 65 percent of the maximum thirty minutes speed, or  
(b) when the standard on-board instrumentation indicates that the vehicle should be stopped, or  
(c) after 100 km.  
By means of derogation if the manufacturer can prove to the technical service to the satisfaction of the approval authority that the vehicle is physically not capable of achieving the thirty minutes speed the maximum fifteen minute speed may be used instead.

Fulfilled by 2.2.1.8.7.6.

2.2.1.8.8.10.2. Application of a normal overnight charge  
The battery shall be charged according to the following procedure:  
Normal overnight charge procedure  
The charge shall be carried out:  
(a) **with the on-board charger if fitted;**  
(b) ~~with an external charger recommended by the manufacturer, using the charging pattern prescribed for normal charging;~~  
(c) in an ambient temperature of between 293,2 K and 303,2 K (20 °C and 30 °C).  
This procedure excludes all types of special charges that could be automatically or manually initiated, e.g. equalisation or servicing charges.

Yes

2.2.1.8.8.10.2.1. The end-of-charge criteria shall correspond to a **charging time of 12 hours** except where the standard instrumentation indicates clearly that the battery is not yet fully charged, in which case:

Yes





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|               |   |  |
|---------------|---|--|
|               | the maximum time is $=3 \times \text{claimed battery capacity (Wh)} / \text{mains power supply (Wh)}$   |  |
| 2.2.1.8.8.11. | <p>The end of charging time <math>t_0</math> (plug off) shall be reported.</p> <p>The chassis dynamometer shall be set according to the method in point 4.5.6. of Annex II.</p> <p>Starting within four hours of <math>t_0</math>, the applicable type I test shall be run twice on a chassis dynamometer, following which the distance covered in km (<math>D_{\text{test}}</math>) is recorded. If the manufacturer can demonstrate to the approval authority that twice the type I test distance can physically not be attained by the vehicle, the test cycle shall be conducted once and subsequently followed by a partial second test run. The second test run may stop if the minimum state of charge of the propulsion battery is reached as referred to in Appendix 3.1.</p>  | <p>End of charging time <math>t_0</math> (plug off):</p> <p>Variant 00 Version 00:<br/>13:03 24 July 2023<br/><math>D_{\text{test}}</math>: 14.1 km</p> <p>Variant 01 Version 00:<br/>10:09 01 August 2023<br/><math>D_{\text{test}}</math>: 10.8 km</p> |
| 2.2.1.8.8.12. | <p>Charge of the battery</p> <p>The test vehicle shall be connected to the mains within 30 minutes of the second run of the applicable type I test cycle.</p> <p>The vehicle shall be charged according to the normal overnight charge procedure in point 2.2.1.8.7.10.2.</p> <p>The energy measurement equipment, placed between the mains socket and the vehicle charger, measures the energy charge <math>E</math> delivered from the mains and its duration.</p> <p>Charging shall stop 24 hours after the end of the previous charging time (<math>t_0</math>).</p> <p><i>Note:</i></p> <p>In the event of a mains power cut, the 24 hour period may be extended in line with the duration of the cut. The validity of the charge shall be discussed between the technical services of the approval laboratory and the vehicle manufacturer to the satisfaction of the approval authority.</p> | <p>Charge stop at <math>t_0 + 24\text{h}</math><br/>Charging time: 1.5 h</p>   |
| 2.2.1.8.8.13. | <p>Electric energy consumption calculation</p> <p>Energy <math>E</math> in Wh and charging time measurements are to be recorded in the test report.</p> <p>The electric energy consumption <math>c</math> shall be determined using the formula: <math>c = E/D_{\text{test}}</math> (expressed in Wh/km and rounded to the nearest whole number).</p> <p>where <math>D_{\text{test}}</math> is the distance covered during the test (in km).</p>  | <p>Variant 00 Version 00: <math>E</math>: 627.5 Wh<br/>Variant 01 Version 00: <math>E</math>: 424.5 Wh</p>   |
| 2.2.1.8.8.14. | Final Test result   | : See table 5-9  |



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Variant 00 Version 00

| Table 5-9<br>Test Type VII result table for pure electric propulsion or not-externally-chargeable (NOVC) propulsions<br>equipped with an electric motor for propulsion |   |   |                            |                            |
|--|---|---|----------------------------|----------------------------|
|  | Measured electric energy<br>consumption** | Declared electric<br>energy consumption | Measured<br>electric range | Declared<br>electric range |
|  | (Wh/km)*                                  | (Wh/km)                                 | (km)*                      | (km)                       |
| Pure electric powertrain   | 45  | 45                                      | 52                         | 52                         |
|  |   |   |                            |                            |

Variant 01 Version 00

| Table 5-9<br>Test Type VII result table for pure electric propulsion or not-externally-chargeable (NOVC) propulsions<br>equipped with an electric motor for propulsion |   |   |                            |                            |
|--|---|---|----------------------------|----------------------------|
|  | Measured electric energy<br>consumption** | Declared electric<br>energy consumption | Measured<br>electric range | Declared<br>electric range |
|  | (Wh/km)*                                  | (Wh/km)                                 | (km)*                      | (km)                       |
| Pure electric powertrain   | 39  | 39                                      | 64                         | 64                         |
|  |   |   |                            |                            |

\*Rounded to Whole Number

\*\*Measured Electric Energy Consumption within 4 % of declared.



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### APPENDIX 3– A6

#### Testing Procedures and Technical Requirements as Regards Propulsion Unit Performance

#### 0. Main Requirements

- 0.1. Requirements according to : Reg. (EU) 134/2014, Annex X  
Including amendment (EU) 2018/295  
UNECE R85.00 Supplement 10

#### 1. Witness details

- 1.1. Witness : Will Xu  
1.2. Location of Test : Zhejiang Labs Vehicle Testing Co., Ltd.  
No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang  
Street, Yuhang District, Hangzhou, Zhejiang Province,  
PEOPLE'S REPUBLIC OF CHINA  
1.3. Date of Test : 2023/05/26 to 2023/07/18  
1.4. Worst Case Rationale : Both variants tested  
1.5. Tested engine : Variant 00 Version 00: HM6SS000000001  
Controller: SS12-60V-YTC  
Variant 01 Version 00: HM6SS000000001  
Controller: SS12-60V-YTC 25KM/H

#### 1.6. Facility and Equipment Checks

- 1.7.1. Calibration certificates checked and valid,  
recorded in the following table : Conform  
1.7.2. All instruments are equipped with identification  
label : Yes  
1.7.3. Calibration certificates are complete of  
calibration-chain with detailed information  
regarding primary used. : Yes

| Equipment           | Serial / Certificate No.        | Calibration due |
|---------------------|---------------------------------|-----------------|
| GPS road tester     | 046533/37XJ23051051-0029        | 09.05.2024      |
| Aerovane            | 22022200T0897/37XJ23051051-0001 | 09.05.2024      |
| Barometer           | PHB-318/37XJ23051051-0005       | 09.05.2024      |
| Tyre pressure gauge | 181219319/37XJ23051051-0027     | 09.05.2024      |
| Dynamometer         | 1810223-37XJ23051051-0024       | 09.05.2024      |

#### 2. Test Results

##### 2.2.1.11. Propulsion unit performance test results

- 2.2.1.11.1. Propulsion unit performance data to be  
provided to measure/determine the  
maximum vehicle design speed : Yes  
2.2.1.11.1.1. Details of hardware and software of test  
vehicle(s), fitted components and  
accessories referred to in Annex X to  
Commission Delegated Regulation (EU) No  
134/2014, Any deviations by test vehicle(s) : Not applicable



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|                 |   |   |
|-----------------|---|---|
|                 | from data provided in information document, Annex I   |   |
|                 | If yes, please provide list with deviations relevant for measuring the maximum vehicle design speed and gear in which it was reached  | : Not applicable  |
| 2.2.1.11.1.2.   | Test mass in running order<br>mass plus rider/driver  | : 178.28 kg   |
| 2.2.1.11.1.3.   | Test fuel specifications  | : Not applicable  |
| 2.2.1.11.1.4.   | Powertrain lubricant specifications   | : As manufacturer's recommendation  |
| 2.2.1.11.1.5.   | Atmospheric pressure (kPa)  | : 100.6   |
| 2.2.1.11.1.6.   | Relative humidity (%)   | : 71.7  |
| 2.2.1.11.1.7.   | Ambient temperature (K)   | : 301.8   |
| 2.2.1.11.1.8.   | Wind speed and direction on test track (km/h)   | : 1.44 N-W  |
| 2.2.1.11.1.9.   | Test track condition<br>(temperature, level of moisture etc.)   | : Asphalt pavement, flat and dry, straight long enough track<br>: Ambient temperature 301.8 K                     |
| 2.2.1.11.1.10.  | Maximum vehicle design speed measured and gear in which it is reached   | : Variant 00: 44.8 km/h and no gear<br>: Variant 01: 24.6 km/h and no gear<br>: Wheel hub direct drive rear wheel |
| 2.2.1.11.1.11.  | Maximum vehicle design speed  | : Variant 00: 45 km/h<br>: Variant 00: 25 km/h  |
| 2.2.1.11.1.12   | Exemption L3e-A3 and L4e-A3 vehicles; maximum vehicle design speed declared by manufacturer   | : Not applicable  |
| 2.2.1.11.2.     | Propulsion unit performance data to be provided to measure/determine the torque and power of the propulsion on the engine dynamometer   | : Yes   |
| 2.2.1.11.2.1.   | Details of propulsion(s) hardware and software tested, test equipment and settings relevant for propulsion unit performance measurements on engine dynamometer tests                                | : Yes   |
| 2.2.1.11.2.1.1. | List of components and part numbers/markings relevant for propulsion unit performance measurement on engine dynamometer, referred to in Annex X to Commission Delegated Regulation (EU) No 134/2014 | : Refer to ANNEX 6 - Table 1 to UN ECER85.00<br>: See table 1 below   |



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Table 1 - AUXILIARIES TO BE FITTED FOR THE TEST

| No.              | AUXILIARIES  |  | Fitted equipment  |
|------------------|--|--|---|
| 1                | DC voltage source  | Yes  |   |
| 2                | Speed variator and control device  | Yes  |   |
| 3                | Electric equipment   | Standard-production equipment - provided by manufacturer |   |
| 4                | Bench test auxiliary fan   | Not fitted   |   |
|                  |  | Yes  |   |
| 2.2.1.11.2.1.2.  | Test fuel  | :  | Not applicable  |
| 2.2.1.11.2.1.3.  | Powertrain lubricant specifications  | :  | As manufacturer recommend   |
| 2.2.1.11.2.1.4.  | Atmospheric pressure (kPa)   | :  | 100.6   |
| 2.2.1.11.2.1.5.  | Relative humidity (%)  | :  | 71.7  |
| 2.2.1.11.2.1.6.  | Ambient temperature (K)  | :  | 301.8   |
| 2.2.1.11.2.1.7.  | Correction factor for reference atmospheric conditions $\alpha_1$                                  | :  | Not applicable  |
| 2.2.1.11.2.1.8.  | Correction factor for the efficiency of the transmission $\alpha_2$                                | :  | Not applicable  |
| 2.2.1.11.2.1.9   | Engine cooling temperature (K)   | :  | Not applicable  |
| 2.2.1.11.2.1.10. | Oil temperature at measuring point (K)   | :  | Not applicable  |
| 2.2.1.11.2.1.11. | Exhaust temperature (K)  | :  | Not applicable  |
| 2.2.1.11.2.1.12. | The manufacturer shall indicate the propulsion unit performance test results below                 |  |   |
| 2.2.1.11.2.1.13. | Maximum permitted combustion engine/electric motor/propulsion rotation speed ( $\text{min}^{-1}$ ) | :  | Variant 00: 383 $\text{min}^{-1}$<br>Variant 01: 213 $\text{min}^{-1}$                      |
| 2.2.1.11.2.1.14. | Maximum net power combustion engine  | :  | Not applicable  |
| 2.2.1.11.2.1.15. | Maximum net torque combustion engine   | :  | Not applicable  |
| 2.2.1.11.2.1.16. | Maximum continuous-rated power electric motor  | :  | Variant 00: 3.0 kW @ 340 $\text{min}^{-1}$<br>Variant 01: 3.0 kW @ 200 $\text{min}^{-1}$    |
| 2.2.1.11.2.1.17. | Maximum continuous-rated torque electric motor   | :  | Variant 00: 84.3 Nm @ 340 $\text{min}^{-1}$<br>Variant 01: 143.2 Nm @ 200 $\text{min}^{-1}$ |
| 2.2.1.11.2.1.18. | Maximum current e-motor at maximum continuous-rated power  | :  | Variant 00: 62.97 A<br>Variant 01: 75.21 A  |
| 2.2.1.11.2.1.19. | Maximum continuous total power for propulsion(s)   | :  | Variant 00: 3.0 kW<br>Variant 01: 3.0 kW  |
| 2.2.1.11.2.1.20. | Maximum continuous total torque for propulsion(s)  | :  | Variant 00: 84.3 Nm<br>Variant 01: 143.2 Nm   |
| 2.2.1.11.2.1.21. | Maximum peak power for propulsion(s)   | :  | Variant 00: 3.2 kW @ 332 $\text{min}^{-1}$<br>Variant 01: 3.0 kW @ 210 $\text{min}^{-1}$    |
| 2.2.1.11.2.1.22. | Power/mass in running order ratio  | :  | Variant 00: 0.0165<br>Variant 01: 0.0165  |
| 2.2.1.11.2.1.23. | Specific fuel consumption, g/kWh at maximum net power and power                                    | :  | Not applicable  |



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|                  |   |   |   |
|------------------|---|---|---|
| 2.2.1.11.2.1.24. | Propulsion unit performance sweep graphs of total power and torque vs. engine speed (1 200 rpm to propulsion speed governor rpm, step 400 rpm).<br>Secondary variables: spark angle, A/F ratio and mass air-flow (measured or calculated) | : | Not applicable  |
| 2.2.1.11.2.1.25. | Maximum speed of vehicle and gear in which it is reached km/h)<br>(only for subcategories: L1e, L2e, L6e, L7e-B1, L7e-C)  | : | Variant 00: 45.0 km/h<br>Variant 01: 25.0 km/h<br>Wheel hub direct drive rear wheel |
| 2.2.1.11.2.1.26. | Maximum declared vehicle speed<br>(only for subcategories without maximum vehicle speed limitation: L3e, L4e, L5e, L7e-A and L7e-B2)  | : | Not applicable  |
|                  | Engine family 00  | : | Not applicable  |
|                  | Engine family 01  | : |   |



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LIMITED  
Type: HM-6

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### APPENDIX 3 – A7

#### Vehicle propulsion family with regard to environmental performance demonstration tests Not applicable

|           |                           |   |   |
|-----------|---------------------------|---|---|
| <b>0.</b> | <b>Main Requirements</b>  | : |   |
| 0.1.      | Requirements according to | : | Reg. (EU) 134/2014, Annex XI<br>Including amendment (EU) 2018/295 |
| <b>1.</b> | <b>Witness details</b>    | : |   |
| 1.1.      | Witness                   | : | Not applicable  |
| 1.2.      | Location of Test          | : | Not applicable  |
| 1.3.      | Date of Test              | : | Not applicable  |
| 1.4.      | Worst Case Rationale      | : | Not applicable  |



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### APPENDIX 3 – B1 Audible Warning Devices

#### 0. Main Requirements

0.1. Requirements according to : Reg. (EU) 3/2014 Annex II  
Including amendment (EU) 2016/1824  
UNECE 28.00 Supplement 6

#### 1. Witness details

1.1. Witness : Will Xu  
1.2. Location of Test : Zhejiang Labs Vehicle Testing Co., Ltd.  
No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang  
Street, Yuhang District, Hangzhou, Zhejiang Province,  
PEOPLE'S REPUBLIC OF CHINA  
1.3. Date of Test : 2023/05/26 to 2023/07/18  
1.4. Worst Case Rationale : Variant 00 tested to cover variant 01  
1.5. Tested vehicle : ☆R68HM6000PA000001☆

#### 2. Facility and Equipment Checks

2.1. Calibration certificates checked and valid,  
recorded in the following table : Conform  
2.2. All instruments are equipped with  
identification label : Yes  
2.3. Calibration certificates are complete of  
calibration-chain with detailed information  
regarding primary used. : Yes

| Equipment                 | Serial / Certificate No.    | Calibration due |
|---------------------------|-----------------------------|-----------------|
| Sound level meter         | 211106648/37XJ23051051-0016 | 09.05.2024      |
| Sound acoustic calibrator | N662275/37XJ23051051-0014   | 09.05.2024      |
| Tape                      | 665702/37XJ23051051-0008    | 09.05.2024      |
| Tape                      | 665703/37XJ23051051-0009    | 09.05.2024      |

#### 3. Details of Horns Fitted

3.1. Make and Type: LVEE / DL70- II  
3.2. Voltage Rating: 12 V  
*Part II 2.1.1* Voltage measured at the terminal of vehicle 13 V  
*Par I 2.3.1* LV battery  
3.3. Number Fitted: 1  
3.4. Approval Number: E32-28R-00 0002  
3.5. Position: In middle of vehicle longitudinal plane, 400 mm  
rearward of front axle centre, 640 mm in height  
from front axle centre.

#### 4. Condition of test:

4.1. Wind: 0.4 m/s N-W  
4.2. Test area, general condition: Open area, public road





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*Part 2 -  
2.1.5.*

Background noise measured (dB(A))

51.5

**5.**

**Test Results**

5.1.

Height of microphone above ground (m)

0.80

5.2.

Sound level value (dB(A))

89.7



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### APPENDIX 3 – B2 Braking, including anti- lock and combined brake systems

#### 0. **Main Requirements**

0.1. Requirements according to : Reg. (EU) 3/2014 Annex III  
Including amendment (EU) 2016/1824  
UNECE 78.04 Supplement 1

#### 1. **Witness details**

1.1. Witness : Will Xu  
1.2. Location of Test : Zhejiang Labs Vehicle Testing Co., Ltd.  
No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang  
Street, Yuhang District, Hangzhou, Zhejiang Province,  
PEOPLE'S REPUBLIC OF CHINA  
1.3. Date of Test : 2023/05/26 to 2023/07/18

1.4. **Worst Case Rationale** : Variant 00 tested to cover variant 01

1.5. **Tested vehicle** : ☆R68HM6000PA000001☆

#### 3. **Facility and Equipment Checks**

3.1. Calibration certificates checked and valid : Conform  
3.2. All instruments are equipped with  
identification label : Yes  
3.3. Calibration certificates are complete of  
calibration-chain with detailed information  
regarding primary used. : Yes

| Equipment         | Serial / Certificate No.        | Calibration due |
|-------------------|---------------------------------|-----------------|
| GPS road tester   | 046533/37XJ23051051-0029        | 09.05.2024      |
| Food Force sensor | 1610040002/37XJ23051051-0002    | 09.05.2024      |
| Hand force sensor | 1610040002/37XJ23051051-0003    | 09.05.2024      |
| Barometer         | PHB-318/37XJ23051051-0005       | 09.05.2024      |
| Aerovane          | 22022200T0897/37XJ23051051-0001 | 09.05.2024      |


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#### 4. Summary of test results

##### 4.1. Applicability :

|   | PASS                                | FAIL                     | N/A                                 | COVERED<br>PREVIOUS<br>EXTENSION | See approval/Report Nr. |
|---|-------------------------------------|--------------------------|-------------------------------------|----------------------------------|-------------------------|
| Dry Stops - Single Brake Control Actuated                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>         |                         |
| Dry Stop - All Service Brake Controls Actuated            | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>         |                         |
| High Speed Stop   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>         |                         |
| Wet Brake Test  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>         |                         |
| Heat Fade Test  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>         |                         |
| Hot Brake Stops   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>         |                         |
| Determination of Peak Braking Coefficient (PBC)           | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>         |                         |
| Stops on a High Friction Surface                          | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>         |                         |
| Stops on a Low Friction Surface                           | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>         |                         |
| Wheel lock checks on high and low friction surfaces       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>         |                         |
| Wheel lock checks high to low friction surface transition | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>         |                         |
| Wheel lock checks low to high friction surface transition | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>         |                         |
| Stops With an ABS Electrical Failure                      | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>         |                         |

#### 5. Vehicle Details:

##### 5.0.1. Mass of the vehicle

|                   | MRO + Rider | Laden |
|-------------------|-------------|-------|
| Front Axle (kg) : | 70          | 57    |
| Rear Axle (kg) :  | 112         | 170   |
| Total (kg) :      | 182         | 257   |

##### Braking system :

|  | Front  | Rear   |
|--|--|--|
| 5.0.2. No of discs/drums and diameters (mm): | One ventilated disc<br>Diameter=240 mm   | One ventilated disc<br>Diameter=260 mm   |
| 5.0.3. Linings (Manufacturer and material):  | Make: Wenzhou Anjie<br>Automobile Distribution<br>Co., Ltd.<br>Type: RL8031A<br>Material: Metal ceramic,<br>CaSiO3 (Asbestos free) | Make: Wenzhou Anjie<br>Automobile Distribution Co.,<br>Ltd.<br>Type: RL8031A<br>Material: Metal ceramic,<br>CaSiO3 (Asbestos free) |



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|        |                                       |                       |                       |
|--------|---------------------------------------|-----------------------|-----------------------|
| 5.0.4. | Hand or foot operated:                | Right hand            | Left hand             |
| 5.0.5. | Lever ratio:                          | 172: 80= 2.15         | 172: 80= 2.15         |
| 5.0.6  | Brake calliper                        | Wheel cylinder 2×Ø25  | Wheel cylinder 2×Ø25  |
| 5.0.7  | Brake pump                            | Master cylinder Ø14.0 | Master cylinder Ø14.0 |
| 5.0.8  | Front/rear, CBS or split system:      | Front / rear          |                       |
| 5.0.9  | Brake distribution valve:             | Not applicable        |                       |
| 5.0.10 | Power assistance:                     | Not applicable        |                       |
| 4.0.11 | ABS (controlled wheels, calibration): | Not applicable        |                       |

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**5.1 Dry Stops - Single Brake Control Actuated**

|       |   |   |                |
|-------|---|---|----------------|
| 5.1.1 | Performed laden, engine disconnected  | : | Conform        |
| 5.1.2 | Vehicles with CBS and split service brakes: also perform test lightly loaded        | : | Not applicable |
| 5.1.3 | Initial brake temperature: $\geq 55^{\circ}\text{C}$ and $\leq 100^{\circ}\text{C}$ | : | Conform        |
| 5.1.4 | Each service brake control is operated separately                                   | : | Conform        |

**Loaded conditions, engine disconnected**

| Brake System       | Nominal Speed (km/h) | Actual Speed (km/h) | Actual Distance (m) | Corrected Distance (m) | MFDD (m/s <sup>2</sup> ) | Control Force (N) |
|--------------------|----------------------|---------------------|---------------------|------------------------|--------------------------|-------------------|
| Front              | 40                   | 39.73               | 17.13               | 17.36                  | 3.94                     | 31.71             |
| Rear               | 40                   | 39.54               | 15.48               | 15.84                  | 4.01                     | 120.28            |
| Limits (L1): Front |                      |                     |                     | 21,76                  | $L1 \geq 3.4$            | $\leq 200$        |
| Limits (L1): Rear  |                      |                     |                     | 26,88                  | $L1 \geq 2.7$            | $\leq 200$        |

**5.2 Dry Stop - All Service Brake Controls Actuated**

|       |   |   |                |
|-------|---|---|----------------|
| 5.2.1 | Performed lightly loaded, engine disconnected   | : | Not applicable |
| 5.2.2 | Initial brake temperature: $\geq 55^{\circ}\text{C}$ and $\leq 100^{\circ}\text{C}$   | : | Not applicable |
| 5.2.3 | Simultaneous actuation of both service brake controls if so equipped or the single service brake system control for a service brake that operates on all wheels | : | Not applicable |
| 5.2.4 | Must achieve specified performance with no more than 6 stops  | : | Not applicable |

| Brake System | Nominal Speed (km/h) | Actual Speed (km/h) | Actual Distance (m) | Corrected Distance (m) | Front Control Force (N) | Rear Control Force (N) |
|--------------|----------------------|---------------------|---------------------|------------------------|-------------------------|------------------------|
| All brakes   | -                    | --                  | --                  | --                     | --                      | --                     |
| Limits (L3): |                      |                     |                     | 60,00                  | $\leq 250$              | $\leq 400$             |



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### 5.3 High Speed Stop

- 5.3.1 Performed lightly loaded, engine connected with transmission in highest gear : Not applicable
- 5.3.2 Initial brake temperature:  $\geq 55^{\circ}\text{C}$  and  $\leq 100^{\circ}\text{C}$  : Not applicable
- 5.3.3 Simultaneous actuation of both service brake controls if so equipped or the single service brake system control for a service brake that operates on all wheels : Not applicable
- 5.3.4 Must achieve specified performance with no more than 6 stops : Not applicable

| Brake System | Nominal Speed (km/h) | Actual Speed (km/h) | Actual Distance (m) | Corrected Distance (m) | MFDD (m/s <sup>2</sup> ) | Front Control Force (N) | Rear Control Force (N) |
|--------------|----------------------|---------------------|---------------------|------------------------|--------------------------|-------------------------|------------------------|
| All brakes   | -                    | -                   | -                   | -                      | -                        | -                       | -                      |
| Limits (L3): |                      |                     |                     |                        |                          | $\leq 200$              | $\leq 350$             |

### 5.4 Wet Brake Test

- 5.4.1 Each service brake control is tested separately : Conform
- 5.4.2 Performed laden, engine disconnected : Conform
- 5.4.3 Vehicles with CBS and split service brakes: also perform test lightly loaded : Not applicable
- 4.4.4 Run baseline test to achieve 2.5 - 3.0 m/s<sup>2</sup>: : Conform

#### Loaded conditions, engine disconnected

| Baseline Tests | Nominal Speed (km/h) | Actual Speed (km/h) | Average Decel 0.5 - 1.0 s (m/s <sup>2</sup> ) | Highest Decel (m/s <sup>2</sup> ) | Av Control Force (N) |
|----------------|----------------------|---------------------|---|-----------------------------------|----------------------|
| Front          | 40                   | 39.24               | 2.97  | 3.54                              | 18.39                |
|                | 40                   | 39.90               | 2.42  | 3.15                              | 19.52                |
|                | 40                   | 39.67               | 3.37  | 2.83                              | 13.70                |
| Average:       |                      |                     | 2.59  | 3.17                              | 17.20                |

| Baseline Tests | Nominal Speed (km/h) | Actual Speed (km/h) | Average Decel 0.5 - 1.0 s (m/s <sup>2</sup> ) | Highest Decel (m/s <sup>2</sup> ) | Av Control Force (N) |
|----------------|----------------------|---------------------|---|-----------------------------------|----------------------|
| Rear           | 40                   | 41.05               | 2.74  | 3.12                              | 59.20                |
|                | 40                   | 39.81               | 2.82  | 4.07                              | 68.01                |
|                | 40                   | 39.99               | 2.70  | 3.49                              | 50.46                |
| Average:       |                      |                     | 2.75  | 3.56                              | 59.22                |



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- 5.4.5 Ride the vehicle with water delivery for  $\geq 500$  m : Not applicable
- 5.4.6 Make a stop using the average control force from the baseline test : Conform

| Wet Tests     | Nominal Speed<br>(km/h) | Actual Speed<br>(km/h) | Average Decel<br>0.5 - 1.0 s<br>(m/s <sup>2</sup> ) | Highest Decel<br>(m/s <sup>2</sup> ) | Av Control Force<br>(N) |
|---------------|-------------------------|------------------------|---|--------------------------------------|-------------------------|
| Front         | 40                      | 39.02                  | 2.02  | 3.47                                 | 13.38                   |
| Rear          | 40                      | 40.79                  | 2.02  | 3.80                                 | 53.43                   |
| Limits: Front |                         |                        | $\geq 1.55$   | $\leq 3.81$                          | 17.20                   |
| Limits: Rear  |                         |                        | $\geq 1.65$   | $\leq 4.27$                          | 59.22                   |

5.5 **Heat Fade Test** Not applicable

5.6 **ABS TEST REQUIREMENTS** Not applicable



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### APPENDIX 3 – B3 Electrical Safety

|             |  |   |   |
|-------------|--|---|---|
| <b>0.</b>   | <b>Main Requirements</b>   | : |   |
| 0.1.        | Requirements according to  | : | Reg. (EU) 3/2014 Annex VI<br>Including amendment (EU) 2016/1824<br>UNECE R100.02 Supplement 4   |
| <b>1.</b>   | <b>Witness details</b>   | : |   |
| 1.1.        | Witness  | : | Will Xu   |
| 1.2.        | Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
| 1.3.        | Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4.        | Worst Case Rationale   | : | Variant 00 tested to cover variant 01   |
| <b>1.5.</b> | <b>Facility and Equipment Checks</b>   | : |   |
| 1.5.1.      | Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Conform   |
| 1.5.2.      | All instruments are equipped with<br>identification label  | : | Yes   |
| 1.5.3.      | Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Yes   |

|             |   | PASS                                | FAIL                     | N/A                                 |
|-------------|---|-------------------------------------|--------------------------|-------------------------------------|
| 1.3.1.3.1.  | General requirements concerning the protection against electrical shock and electrical safety applying to high voltage buses under conditions where they are not connected to external high voltage power supplies. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.3.1.3.2.  | The protection against direct contact with live parts. The protections provided (e.g. solid insulator, barrier, enclosure) shall not be able of being opened, disassembled or removed without the use of tools.     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.3.1.3.3.  | The protection against indirect contact with live parts   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.3.1.3.4.  | Isolation resistance  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.3.1.3.5.  | <b>Requirements concerning the REESS</b>  |                                     |                          |                                     |
| 1.3.1.3.5.1 | Protection in case of excessive current   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.3.1.3.6.  | <b>Prevention of accumulation of gas.</b>   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.3.1.3.7.  | Protection against electrolyte spills   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



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|  | PASS                                | FAIL                     | N/A                                 |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1.3.1.3.8. Accidental or unintentional detachment              | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.3.1.3.9. <b>In-use safety requirements</b>                   |                                     |                          |                                     |
| 1.3.1.3.9.1 Propulsion system power-on and power-off procedure | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.3.1.3.10. Driving with reduced power                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.3.1.3.11. Driving backwards                                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.3.1.3.12. Determination of hydrogen emissions                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |





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**APPENDIX 3 – B4**

**Endurance Testing of Functional Safety Critical Systems, Parts and Equipment**

|           |                           |   |  |
|-----------|---------------------------|---|--|
| <b>0.</b> | <b>Main Requirements</b>  | : |  |
| 0.1.      | Requirements according to | : | Reg. (EU) 3/2014 Annex V<br>Including amendment (EU) 2016/1824 |
| <b>1.</b> | <b>Detail</b>             | : |  |
| 1.1.      | Remarks                   | : | See manufacturer information declaration                       |

**PASS    FAIL    N/A**

|              |   |                                     |                          |                          |
|--------------|---|-------------------------------------|--------------------------|--------------------------|
| <i>Ann V</i> | Vehicles and their systems, parts and equipment critical for functional safety are capable of withstanding use under normal conditions and when serviced in accordance with the manufacturer's recommendations, taking into account regular and scheduled maintenance and specific equipment adjustments, carried out as per the clear and unambiguous instructions provided by the vehicle manufacturer in the instruction manual provided with the vehicle.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <i>Ann V</i> | Normal use of a vehicle covers five years after first registration and a total distance travelled equal to 1.5 times the distance, as specified in Annex VII to Regulation (EU) No 168/2013, in direct relation to the vehicle category in question and the emission stage (i.e. Euro level), according to which the vehicle is to be type approved; however, the required distance does not exceed 60,000 km for any vehicle category.<br><i>Note: Normal use does not include use under harsh conditions (e.g. extreme cold or heat) and road conditions inflicting damage to the vehicle due to its state of repair.</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



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00139 Roma

Inspection Report Nr.: CN-118-2-134-WHO23-07035-IR  
Manufacturer: ZHEJIANG YIXING INDUSTRY AND TRADE  
LIMITED  
Type: HM-6

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### APPENDIX 3 – B7

#### Driver-operated controls including identification of controls, tell-tales and indicators

|           |  |   |   |
|-----------|--|---|---|
| <b>0.</b> | <b>Main Requirements</b>   | : |   |
| 0.1.      | Requirements according to  | : | Reg. (EU) 3/2014 Annex VIII<br>Including amendment (EU) 2016/1824<br>UNECE R60.00 Supplement 5<br>UNECE R39.01 Supplement 1   |
| <b>1.</b> | <b>Witness details</b>   | : |   |
| 1.1.      | Witness  | : | Will Xu   |
| 1.2.      | Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
| 1.3.      | Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4.      | Worst Case Rationale   | : | Option 1 and option 2 tested  |
| 1.5.      | Tested sample  | : | ☆R68HM6000PA000001☆   |
| <b>2.</b> | <b>Facility and Equipment Checks</b>   | : |   |
| 2.1       | Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Conform   |
| 2.2       | All instruments are equipped with<br>identification label  | : | Yes   |
| 2.3       | Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Yes   |

| Equipment           | Serial / Certificate No.    | Calibration due |
|---------------------|-----------------------------|-----------------|
| GPS road tester     | 046533/37XJ23051051-0029    | 09.05.2024      |
| Tire pressure gauge | 181219319/37XJ23051051-0027 | 09.05.2024      |
| Barometer           | 37XJ23051051-0005           | 09.05.2024      |

|           |  |   |  |
|-----------|--|---|--|
| <b>3.</b> | <b>Condition of test:</b>              | : |  |
| 3.1.      | Ambient temperature (K)                | : | Speedometer temperature within range $23 \pm 5$ °C: ---<br>Note: The technical service may accept an increased<br>temperature range of $296 \pm 15$ K ( $23 \pm 15$ °C) instead of<br>the range stated in point 5.2.3 of UNECE Regulation 39 if<br>it can be demonstrated that the speedometer equipment<br>is not sensitive to such temperature variations. |
| 3.2.      | Tyre Fitted on a vehicle               | : |  |
|           | Front                                  | : | 110/70-17 M/C  |
|           | Rear                                   | : | 120/80-17 M/C  |
| 3.3.      | Tyre pressure (kPa)                    | : | Recommended by manufacturer:<br>Front: 250 kPa / Rear: 225 kPa   |
| R39.01    | Remarks:                               | : | Tyre pressure when tested:   |
| 5.3.4.    | > Tyres pressure are in normal running | : | Front: 250 kPa + 20 kPa  |
| 2.4       | pressure as defined in 2.4             | : | Rear: 225 kPa + 20 kPa   |



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|               |  |   |  |
|---------------|--|---|--|
| 3.5.          | Test area, general condition                                       | : | Flat and dry, asphalt straight public road |
| 3.6.          | Mass of vehicle in running order                                   | : | 92 kg                                      |
| <i>R39.01</i> | <i>Remarks:</i>  |   | Actual test mass: 182 kg                   |
| 5.3.2.        | > The test are carried out with the vehicle at its unladen weight. |   | Front: 70 kg<br>Rear: 112 kg               |

#### 4. Speedometer Specification

|      |                                     |   |   |
|------|-------------------------------------|---|---|
| 4.1. | Make                                | : | Luqiao Jingxian Electronics Co., Ltd.               |
| 4.2. | Type                                | : | HL3.0   |
| 4.3. | Location                            | : | In middle of handle bar within driver's front view. |
| 4.4. | Legible day and night               | : | Yes   |
| 4.5. | Range of speed indicated (scale)    | : | 0-80 km/h, 0~50 mph                                 |
| 4.6. | Manufacturer's quoted maximum speed | : | Variant 00: 45 km/h<br>Variant 01: 25 km/h          |
| 4.7. | Analogue scale/Digital display      | : | Digital display                                     |
| 4.8. | Steps for marked speed indication   | : | 1 km/h, 1 mph                                       |
| 4.9. | Overall transmission ratio          | : | 310 pulse / 1 wheel rotation                        |

#### 5. Test Results

Requirement:  $0 \leq V_1 - V_2 \leq (V_2/10) + 4 \text{ km/h}$

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Variant 00

| Test no. | Tyre options  | Indicated speed<br>$V_1$ | True speed<br>$V_2$ | $V_1 - V_2$ | $(V_2/10) + 4 \text{ km/h}$ |
|----------|---------------|--------------------------|---------------------|-------------|-----------------------------|
|          |               | (km/h)                   | (km/h)              | (km/h)      | (km/h)                      |
| 1        | 110/70-17 M/C | 40                       | --                  | --          | --                          |
| 2        | 120/80-17 M/C | 36                       | 35.8                | 0.2         | 7.58                        |

Variant 01

| Test no. | Tyre options  | Indicated speed<br>$V_1$ | True speed<br>$V_2$ | $V_1 - V_2$ | $(V_2/10) + 4 \text{ km/h}$ |
|----------|---------------|--------------------------|---------------------|-------------|-----------------------------|
|          |               | (km/h)                   | (km/h)              | (km/h)      | (km/h)                      |
| 1        | 110/70-17 M/C | 40                       | --                  | --          | --                          |
| 2        | 120/80-17 M/C | 20                       | 19.5                | 0.5         | 5.95                        |



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Manufacturer: ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED  
Type: HM-6



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| Control fitted                          | Y | Y | Y   | N/A <sup>2</sup><br>Y <sup>2</sup> | N/A | Y | N/A | N/A | N/A | N/A | N/A | N/A | Y | Y | N/A | N/A | N/A | N   | N/A | N   | N   |
|---|---|---|-----|------------------------------------|-----|---|-----|-----|-----|-----|-----|-----|---|---|-----|-----|-----|-----|-----|-----|-----|
| Correct symbol                          | Y | Y | Y   | N/A <sup>2</sup><br>Y <sup>2</sup> | N/A | Y | N/A | N/A | N/A | N/A | N/A | N/A | Y | Y | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Visibility and clarity requirements met | Y | Y | Y   | N/A <sup>2</sup><br>Y <sup>2</sup> | N/A | Y | N/A | N/A | N/A | N/A | N/A | N/A | Y | Y | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Symbol on (o) or close (c) to control   | O | O | O/C | N/A <sup>2</sup><br>O <sup>2</sup> | N/A | O | N/A | N/A | N/A | N/A | N/A | N/A | O | O | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

|   |      |     |                 |                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---|------|-----|-----------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tell-tale required:<br>Y/N/O (Optional) | Y    | N   | Y               | Y <sup>1,2</sup> | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   | N   |
| Tell-tale fitted                        | Y    | N/A | Y               | Y <sup>1,2</sup> | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Colour requirements of tell-tale        | Blue | N/A | Green separated | Y <sup>1,2</sup> | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Colour of tell-tale complies            | Y    | N/A | Y               | Y <sup>1,2</sup> | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Tell-tale has correct symbol            | Y    | N/A | Y               | Y <sup>1,2</sup> | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Symbol on or close to tell-tale         | O    | N/A | O               | O <sup>1,2</sup> | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

\*Can be via panel lamp, provided panel lamp cannot be turned off; brightness adjustment acceptable.

1 - By Direction Indicator tell-tales

Controls not in this list: "P" on left hand bar, BUT NOT define as auto transmission Parking Gear. Confuse with other meanings.

Tell-tale/Indicator not in this list: "P" "READY" "REESS SOC".

2 – Option 1: Not fitted; Option 2: Control on left -handle bar



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### APPENDIX 3 - B8

#### Installation of lighting and light- signalling devices, including automatic switching of lighting

|   |   |   |
|---|---|---|
| <b>0. Main Requirements</b>   | : |   |
| 0.1. Requirements according to  | : | Reg. (EU) 3/2014 Annex IX<br>Including amendment (EU) 2016/1824<br>UNECE 74.01 Supplement 9 (Moped)   |
| <b>1. Witness details</b>   | : |   |
| 1.1. Witness  | : | Will Xu   |
| 1.2. Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
| 1.3. Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4. Worst Case Rationale   | : | Variant 00 tested to cover variant 01   |
| <b>2. Facility and Equipment Checks</b>   | : |   |
| 2.1. Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Yes   |
| 2.2. All instruments are equipped with<br>identification label  | : | Conform   |
| 2.3. Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Conform   |

| Equipment | Serial / Certificate No. | Calibration due |
|-----------|--------------------------|-----------------|
| Tape      | 665702/37XJ23051051-0008 | 09.05.2024      |
| Tape      | 665703/37XJ23051051-0009 | 09.05.2024      |

| Requirement             | Vehicle and lamps are as specified in documentation | All lamps and reflectors securely mounted | Not likely to become obscured or misaligned | Headlamp can be easily adjusted | All pairs of lamps are symmetrically mounted | All pairs of lamps appear to be the same colour and brightness | No red light visible to the front and no white light visible to the rear |
|-------------------------|---|---|---|---------------------------------|--|--|--|
| <b>All lamps comply</b> | Yes   | Yes                                       | Yes   | Yes                             | Yes  | Yes  | Yes  |

| Specifications of Individual Lamps |   |  |  |  |  |
|------------------------------------|---|--|--|--|--|
| Requirement                        | Any specific mounting recommendations have been complied with | All lamps and reflectors (except head, front fog and reversing lamps) have reference axis $\pm 3^\circ$ parallel to the ground and to the longitudinal plane | All side reflectors have their reference axis $\pm 3^\circ$ perpendicular to the longitudinal median plane | All the requirements of sub-paragraphs (6.1) to (6.12) are complied with as appropriate to the motorcycle category | Dipped (passing) headlamp – possible to re-set alignment using normal screws |
| <b>All lamps comply</b>            | Yes   | Yes  | Yes  | Yes  | Yes  |

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### 3. Test results

|     |                                       |   |         |
|-----|---------------------------------------|---|---------|
| 3.1 | Lighting and light-signalling devices | : | Conform |
| 3.2 | Devices fitted                        | : | Conform |
| 3.3 | Grouping and electrical connections   | : | Conform |

### Component Approval Mark Details

|  |                       |
|--|-----------------------|
| Main beam head lamp                          | E57*149R00/03*0112*00 |
| Dip beam head lamp                           |                       |
| Front position lamp                          | E57*148R00/03*0112*00 |
| Front direction indicators (option 1)        | E4*50R00/19*2854*00   |
| Front direction indicators (option 2)        | E4*50R01/00*3107*00   |
| Front direction indicators (option 3)        | E57*50R01/00*0151     |
| Front direction indicators (option 4)        | E57*148R00/03*0369    |
| Front fog lamps                              | Not applicable        |
| Day time running lamp(s)                     | Not applicable        |
| Rear direction indicators (option 1)         | E4*50R00/19*2854*00   |
| Rear direction indicators (option 2)         | E4*50R01/00*3107*00   |
| Rear direction indicators (option 3)         | E57*50R01/00*0151     |
| Rear direction indicators (option 4)         | E57*148R00/03*0369    |
| Rear position lamp Rear stop lamp (option 1) | E4*50R00/19*26277*00  |
| Rear position lamp Rear stop lamp (option 2) | E4*50R01/00*3108*00   |
| Licence plate lamp (option 1)                | E4*50R00/19*26277*00  |
| Licence plate lamp (option 2)                | E4*50R01/00*3108*00   |
| Rear fog lamp                                | Not applicable        |
| Rear reflector                               | E4*3R02/17*3713*01    |
| Side reflectors                              | E4-3R-023298 Ext.03   |



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**APPENDIX 3 - B9**  
**Rearward visibility**

- 0. Main Requirements** :
- 0.1. Requirements according to : Reg. (EU) 3/2014 Annex X  
Including amendment (EU) 2016/1824  
UNECE 81.00 Supplement 2
- 1. Witness details** :
- 1.1. Witness : Will Xu
- 1.2. Location of Test : Zhejiang Labs Vehicle Testing Co., Ltd.  
No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang  
Street, Yuhang District, Hangzhou, Zhejiang Province,  
PEOPLE'S REPUBLIC OF CHINA
- 1.3. Date of Test : 2023/05/26 to 2023/07/18
- 1.4. Worst Case Rationale : Variant 00 tested to cover variant 01
- 1.5. Tested vehicle : ☆R68HM6000PA000001☆
- 2. Facility and Equipment Checks** :
- 2.1. Calibration certificates checked and valid,  
recorded in the following table : Conform
- 2.2. All instruments are equipped with  
identification label : Yes
- 2.3. Calibration certificates are complete of  
calibration-chain with detailed information  
regarding primary used. : Yes

| Equipment | Serial / Certificate No. | Calibration due |
|-----------|--------------------------|-----------------|
| Tape      | 665702/37XJ23051051-0008 | 09.05.2024      |
| Tape      | 665703/37XJ23051051-0009 | 09.05.2024      |

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- 3. Test results** :
- 3.1. Mirror fitted on a vehicle (approval number) : E11-81R-002066



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**APPENDIX 3 – B12**

**Seating positions (saddles and seats)**

|           |  |   |   |
|-----------|--|---|---|
| <b>0.</b> | <b>Main Requirements</b>   | : |   |
| 0.1.      | Requirements according to  | : | Reg. (EU) 3/2014 Annex XIII<br>Including amendment (EU) 2016/1824   |
| <b>1.</b> | <b>Witness details</b>   | : |   |
| 1.1.      | Witness  | : | Will Xu   |
| 1.2.      | Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
| 1.3.      | Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4.      | Worst Case Rationale   | : | Variant 00 tested to cover variant 01   |
| 1.5.      | Tested vehicle   | : | ☆R68HM6000PA000001☆   |
| <b>2.</b> | <b>Facility and Equipment Checks</b>   | : |   |
| 2.1       | Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Conform   |
| 2.2       | All instruments are equipped with<br>identification label  | : | Yes   |
| 2.3       | Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Yes   |

| Equipment | Serial / Certificate No. | Calibration due |
|-----------|--------------------------|-----------------|
| Tape      | 665702/37XJ23051051-0008 | 09.05.2024      |
| Tape      | 665703/37XJ23051051-0009 | 09.05.2024      |

|                             |   | PASS                                | FAIL                     | N/A                                 |
|-----------------------------|---|-------------------------------------|--------------------------|-------------------------------------|
| <b>General Requirements</b> |   |                                     |                          |                                     |
| 1.1.                        | Vehicles are fitted with at least one seat or saddle:<br>- <del>One seat*</del><br>- <del>Saddle*</del><br><i>*Strikethrough, as appropriate.</i>   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.1.1.                      | All seating positions are forward-facing.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.2.                        | Vehicles without bodywork may have saddles.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.3.                        | Vehicles of categories L2e, L5e, L6e and L7e, which are fitted with bodywork, have seats.   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.5.                        | All seats have seat backs.  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.6.1.                      | Spaces resembling seats, and on which a 5 <sup>th</sup> percentile adult female manikin can be seated, are regarded as seats and therefore meet all the relevant requirements of this annex.                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.7.                        | Height of the R-point of the seating position of the driver or rider is:<br>- <del>≥ 400 mm in the case of vehicles of categories L2e, L5e, L6e and L7e (*)</del><br><i>*Strikethrough, as appropriate.</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |





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|        |   | <b>PASS</b>   | <b>FAIL</b>              | <b>N/A</b>                          |
|--------|---|---|--------------------------|-------------------------------------|
| 1.8.   | All seats and saddles, which are fitted with safety belt anchorage points and/or safety belts, are capable of withstanding a deceleration of 10 g for 20 ms in forward direction without breakage. If fitted, locking, adjustment and displacement systems do not malfunction or release. Displacement systems fitted to seats are capable of being manually activated once, after being subjected to the deceleration. | <input type="checkbox"/>                                    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|        | For seats:  |   |                          |                                     |
|        | By submitting representative parts of the vehicle to a deceleration of 10 g in forward direction for at least 20 ms;  | <input type="checkbox"/>                                    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|        | <u>or</u>   |   |                          |                                     |
|        | By performing the test in points 3.4.4 to 3.4.4.2 of Part 2 of Annex XII.   | <input type="checkbox"/>                                    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|        | For saddles:  |   |                          |                                     |
|        | By exerting in the forward direction, in its centre of gravity, a force equal to 10 times the weight of the complete saddle in question.  | <input type="checkbox"/>                                    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|        |   | <b>e13*168/2013*01895*00</b>                                |                          |                                     |
|        | <b>Child Restraint Systems</b>  | <b>Société Nationale de Certification et d'Homologation</b> |                          |                                     |
| 2.1.   | Child restraint systems complying with UNECE Regulation 44 (1) may be recommended by the vehicle manufacturers for use in vehicles of categories L2e, L5e, L6e and L7e, fitted with safety belts and/or ISOFIX.   | <input type="checkbox"/>                                    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2.1.1. | In this case, all relevant requirements of UNECE Regulation 16 regarding the installation of child restraint systems are met, including those regarding information provided in the vehicle's instruction manual.   | <input type="checkbox"/>                                    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2.2.   | Child restraint systems complying with UNECE Regulation 44 may be recommended by the vehicle manufacturers for use in side-cars of vehicles of category L4e, fitted with safety belts and/or ISOFIX.  | <input type="checkbox"/>                                    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2.2.1. | In this case, the safety belt anchorages comply with the requirements of points 1.3 to 1.6.2 of Part 1 of Annex XII, and points 1 to 3.6.1 of Part 2 of Annex XII; however, seats in side-cars may be fitted with two-point lap belts.  | <input type="checkbox"/>                                    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2.2.2. | All relevant requirements of UNECE Regulation 16 regarding the installation of child restraint systems are met, including those regarding the information to be provided in the vehicle's instruction manual.   | <input type="checkbox"/>                                    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



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Société Nationale de Certification et d'Homologation

Inspection Report Nr.: CN-118-2-134-WHO23-07035-IR  
Manufacturer: ZHEJIANG YIXING INDUSTRY AND TRADE  
LIMITED  
Type: HM-6

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**APPENDIX 3 – B13**

**Steer-ability, cornering properties and turn- ability**

|           |  |   |   |
|-----------|--|---|---|
| <b>0.</b> | <b>Main Requirements</b>   | : |   |
| 0.1.      | Requirements according to  | : | Reg. (EU) 3/2014 Annex XIV<br>Including amendment (EU) 2016/1824  |
| <b>1.</b> | <b>Witness details</b>   | : |   |
| 1.1.      | Witness  | : | Will Xu   |
| 1.2.      | Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
| 1.3.      | Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4.      | Worst Case Rationale   | : | Both variants tested  |
| 1.5.      | Tested vehicle   | : | ☆R68HM6000PA000001☆<br>☆R68HM6010PA000001☆  |
| <b>2.</b> | <b>Facility and Equipment Checks</b>   | : |   |
| 2.1       | Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Conform   |
| 2.2       | All instruments are equipped with<br>identification label  | : | Yes   |
| 2.3       | Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Yes   |

| Equipment           | Serial / Certificate No.    | Calibration due |
|---------------------|-----------------------------|-----------------|
| GPS road tester     | 046533/37XJ23051051-0029    | 09.05.2024      |
| Tire pressure gauge | 181219319/37XJ23051051-0027 | 09.05.2024      |
| Tape                | 665702/37XJ23051051-0008    | 09.05.2024      |
| Tape                | 665703/37XJ23051051-0009    | 09.05.2024      |

|           |   |   |
|-----------|---|---|
| <b>3.</b> | <b>Condition of test:</b>                                       |   |
| 3.1.      | Tyre pressure (kPa):  | Front: 250 kPa, Rear: 225 kPa                           |
| 3.2.      | Test area, general condition:                                   | Industrial zone internal road                           |
| 3.3.      | Vehicle mass (kg):  | Total: 257 Front: 87 Rear:170                           |
| <b>4.</b> | <b>Test results:</b>  |   |
| 4.1.      | Turning from straight ahead:                                    | Straight ahead  |
| 4.2.      | Test of speed on turning circle:                                | Left: 24.5 km/h; Right: 23.7 km/h; Circle diameter=10 m |
| 4.3.      | Straight test:  | Variant 00: 36 km/h, Variant 01: 20 km/h                |
| 4.4.      | Constant turning  | Yes   |
| 4.5.      | Requirements as per directive described in<br>this test record: | Yes   |



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### APPENDIX 3 – B14 Installation of tyres

|           |  |   |   |
|-----------|--|---|---|
| <b>0.</b> | <b>Main Requirements</b>   | : |   |
| 0.1.      | Requirements according to  | : | Reg. (EU) 3/2014 Annex XV<br>Including amendment (EU) 2016/1824<br>UNECE R75.00 supplement 18   |
| <b>1.</b> | <b>Witness details</b>   | : |   |
| 1.1.      | Witness  | : | Will Xu   |
| 1.2.      | Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
| 1.3.      | Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4.      | Worst Case Rationale   | : | Variant 00 tested to cover variant 01   |
| 1.5.      | Tested vehicle   | : | ☆R68HM6000PA000001☆   |
| <b>2.</b> | <b>Facility and Equipment Checks</b>   | : |   |
| 2.1.      | Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Conform   |
| 2.2.      | All instruments are equipped with<br>identification label  | : | Yes   |
| 2.3.      | Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Yes   |

| Equipment | Serial / Certificate No. | Calibration due |
|-----------|--------------------------|-----------------|
| --        | --                       | --              |

|           |   |    |  |
|-----------|---|----|--|
| <b>3.</b> | <b>e13*168/2013*01895*00</b><br><b>Société Nationale de Certification et d'Homologation</b> |    | Variant 00/01 Version 00                   |
| 3.1.      | Mass of the vehicle in running order (declared):  | kg | 92   |
| 3.2.      | Technically permissible maximum mass (declared):  | kg | 257  |
| 3.3.      | Front technically permissible maximum mass (declared):                                      | kg | 87   |
| 3.4.      | Rear technically permissible maximum mass (declared):                                       | kg | 170  |
| 3.5.      | Maximum designed speed  |    | Variant 00: 45 km/h<br>Variant 01: 25 km/h |



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**4. Test Results**

| Tyre  | Options | Size          | LCI | Load (kg) | Speed (Rating) | Speed(km/h) | Type approval No.    |
|-------|---------|---------------|-----|-----------|----------------|-------------|----------------------|
| Front | 1       | 110/70-17 M/C | 54  | 212       | S              | 180         | E4*75R00/19*05102*07 |
| Rear  | 1       | 120/80-17 M/C | 61  | 257       | P              | 150         | E4*75R00/19*10143*02 |
| Spare | --      | --            | --  | --        | --             | --          | --                   |

\*All tyres fitted to vehicles, including any spare tyre, are type approved according to UNECE Regulation 75, as referred to in paragraph 1.1 to Regulation 3/2014/EU.

\*\*Where a vehicle is designed for conditions of use that are incompatible with the characteristics of tyres type approved according to UNECE Regulation 75 and is therefore necessary to fit tyres with different characteristics, the requirements of paragraph 1.1 do not apply, provided that the following conditions are met:

- The tyres are type approved according to Council Directive 92/23/EEC (1), Regulation (EC) No 661/2009 of the European Parliament and of the Council (2), or UNECE Regulation No 106;
- Approval authority and technical service are satisfied that the tyres fitted are suitable for the operating conditions of the vehicle. The nature of the exemption and reasons for acceptance are clearly stated in the test report.

**PASS FAIL N/A**

**General Requirements**

|        |  |                                     |                          |                                     |
|--------|--|-------------------------------------|--------------------------|-------------------------------------|
| 1.1.   | All tyres fitted to vehicles, including any spare tyre, are type-approved according to UNECE Regulation 75.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.1.2. | Vehicles of categories L1e, L2e and L6e with a technically permissible maximum mass ≤ 150 kg may be fitted with non-type approved tyres, with a section width ≤ 67 mm.   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2.1.   | All tyres normally fitted to the same axle, except those on side-cars of L4e category vehicles, are of the same type.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2.2.   | The vehicle manufacturer may restrict the category of use of original and replacement tyres that may be installed on the vehicle. In this case, the categories of use of tyres that may be fitted to the vehicle shall be clearly stated in the vehicle's instruction manual   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2.3.   | The space in which each wheel revolves shall be such as to allow unrestricted movement when using the maximum permissible size of tyres and rim widths, taking into account the minimum and maximum wheel off-sets if applicable, within the minimum and maximum suspension and steering constraints as declared by the vehicle manufacturer.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2.3.1. | All tyres that may be fitted to the vehicle in accordance with point 2.2. shall be taken into account for the determination of the permissible overall dimensions (i.e. the maximum envelope) of the relevant tyre, as applicable in the Union legislation at the time of type-approval testing of the vehicle. For this purpose, either the specifications as provided for in Annex 5 of UNECE Regulation No 75 or the permitted percentages as provided for sizes not included in that Annex shall be taken into account (e.g. overall width of multiservice tyres (MST) + 25 %, normal and snow service tyres + 10 % in case of rim diameter code 13 and above and + 8 % in case of rim diameter codes up to 12 inclusive). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2.3.2. | the vehicle manufacturer shall take into account both the permitted categories of use as well as the speed category that is compatible with the maximum design vehicle speed, for the determination of the permitted tolerance laid down in point 4.1. of Annex 9 to UNECE regulation No 75 (i.e. $H_{dyn} = H \times 1,10$ up to $H_{dyn} = H \times 1,18$ ). More stringent categories may be taken into account at the discretion of the vehicle manufacturer.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2.4.   | The technical service may agree to an alternative test procedure (e.g. virtual testing) to verify that the requirements of point 2.3. to 2.3.2. are met, provided that the clearance between the tyre's maximum envelope and vehicle structure exceeds 10 mm at all points.;   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



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LIMITED  
Type: HM-6

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**PASS FAIL N/A**

- 3.1. Maximum load rating of each tyre with which the vehicle is fitted is at least equal to the following:
- Maximum permissible mass on the axle where the axle is equipped with one tyre only;
  - Half of the maximum permissible mass on the axle where the axle is equipped with 2 tyres in single formation;
  - 0.54 times the maximum permissible mass on the axle where the axle is equipped with 2 tyres in dual (twin) formation;
  - 0.27 times the maximum permissible mass on the axle where the axle is equipped with 2 sets of tyres in dual (twin) formation;
  - With reference to the maximum permissible mass on each axle, as declared by the vehicle manufacturer.

|   | PASS                                | FAIL                     | N/A                                 |
|---|-------------------------------------|--------------------------|-------------------------------------|
| Maximum permissible mass on the axle where the axle is equipped with one tyre only;   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Half of the maximum permissible mass on the axle where the axle is equipped with 2 tyres in single formation;                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 0.54 times the maximum permissible mass on the axle where the axle is equipped with 2 tyres in dual (twin) formation;         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 0.27 times the maximum permissible mass on the axle where the axle is equipped with 2 sets of tyres in dual (twin) formation; | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| With reference to the maximum permissible mass on each axle, as declared by the vehicle manufacturer.                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |



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### APPENDIX 3 – B17

#### Maximum continuous total power and/or maximum vehicle speed limitation by design

|           |  |   |   |
|-----------|--|---|---|
| <b>0.</b> | <b>Main Requirements</b>   | : |   |
| 0.1.      | Requirements according to  | : | Reg. (EU) 3/2014 Annex XVIII<br>Including amendment (EU) 2016/1824  |
| <b>1.</b> | <b>Witness details</b>   | : |   |
| 1.1.      | Witness  | : | Will Xu   |
| 1.2.      | Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
| 1.3.      | Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4.      | Worst Case Rationale   | : | Both variants tested  |
| 1.5.      | Tested vehicle   | : | ☆R68HM6000PA000001☆<br>☆R68HM6010PA000001☆  |
| <b>2.</b> | <b>Facility and Equipment Checks</b>   | : |   |
| 2.1       | Calibration certificates checked and valid   | : | Not applicable  |
| 2.2.      | All instruments are equipped with<br>identification label  | : | Not applicable  |
| 2.3.      | Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Not applicable  |

**PASS    FAIL    N/A**

|          |  |                          |                          |                                     |
|----------|--|--------------------------|--------------------------|-------------------------------------|
| 1.1.2.01 | For vehicles with <u>positive ignition engines</u> propelling the vehicle either directly or through a mechanical or hydraulic transmission, maximum vehicle speed and/or maximum power is limited by adjusting two or more of the following:  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.2.1.   | - Properties, timing or presence of the spark igniting the fuel/air mixture in the cylinder(s)*<br>- Amount of air intake of the engine*<br>- Amount of fuel intake of the engine*<br>- Electronically and/or mechanically controlled output rotation speed of the drive-train, such as clutch, gearbox or final drive*  |                          |                          |                                     |
| 1.1.2.1. | Adjustment of the spark properties, including timing and/or presence, in order to limit the maximum design vehicle speed and/or maximum power shall be allowed for (sub)categories L3e-A2 (only if maximum net power ≥ 20 kW), L3e-A3, L4e-A, L5e, L6eB and L7eC. It may also be allowed for other (sub)categories provided that the adjustment concept does not negatively affect emission of gaseous pollutants, CO2 emissions and fuel consumption while at maximum design vehicle speed and/or maximum power conditions which shall be verified by the technical service.; | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.       |  |                          |                          |                                     |
| 1.1.2.2. | For vehicles with compression ignition engines propelling the vehicle either directly or through a mechanical or hydraulic transmission, maximum vehicle speed and/or maximum power is limited by adjusting two or more of the following:  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|          | - Amount of air intake of the engine*<br>- Amount of fuel intake of the engine*<br>- Electronically and/or mechanically controlled output rotation speed of the drive-train, such as clutch, gearbox or final drive*   |                          |                          |                                     |



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PASS FAIL N/A

|          |  |                                     |                          |                                     |
|----------|--|-------------------------------------|--------------------------|-------------------------------------|
| 1.1.2.3. | For vehicles that are propelled by means of one or more electric motors, including pure and hybrid electric vehicles, maximum vehicle speed and/or maximum power are limited by means of two or more of the following:<br>- Reduction of the maximum power output of one or more electric motors, based on the vehicle or rotation speed, as sensed internally to the electric motor*<br>- Reduction of the maximum power output of one or more electric motors, based on the actual vehicle speed, as sensed fully externally to the electric motor*<br>- Physical vehicle speed limitation by means of internal or external components, such as a maximum achievable revolution speed of an electric motor*  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.1.2.4. | For vehicles that are propelled by means other than those listed above, the maximum vehicle speed and/or maximum power is limited by two or more separate means, which are, as far as possible, based on the abovementioned adjustment, reduction or physical speed limitation principles.   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.1.2.5. | At least two of the limitation methods used, as referred to in points 1.1.2.1 to 1.1.2.4., shall operate independently of each other, be different in nature and have different design philosophies, although they may apply similar elements (e.g. both methods based on the notion of rotation speed as a criterion, but one measured inside a motor and the other in the drive-train's transmission). Failure of one method to work as intended (e.g. due to tampering) shall not impair the limitation function of other methods. In this case, the maximum power and/or vehicle speed which can be attained may be lower than under normal conditions. Without prejudice to the conformity of production tolerance set 15.10.2016 L 279/10 Official Journal of the European Union EN<br>out in point 4.1.4. of Annex IV to Regulation (EU) No 44/2014, the maximum power and/or vehicle speed may not be higher than demonstrated at type-approval, if one out of the two redundant limitation methods is eliminated. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.1.2.6. | The vehicle manufacturer shall be allowed to make use of limitation methods other than those listed in points 1.1.2.1 to 1.1.2.4. if the manufacturer can prove to the technical service and to the satisfaction of the type approval authority that those alternative limitation methods meet the principles of redundancy set out in point 1.1.2.5. and provided that at least one of the parameters listed in points 1.1.2.1., 1.1.2.2. or 1.1.2.3.   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.1.2.7. | The manufacturer shall be allowed to combine two or more of the individual limitation methods referred to in points 1.1.2.1 to 1.1.2.4. as part of a limitation strategy.  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.1.2.8. | Individual limitation methods or combinations of the limitation methods referred to in points 1.1.2.1 to 1.1.2.4. may be applied more than once provided that their multiple uses operate independently of each other  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.1.2.9. | A limitation strategy that in case of failure includes the activation of a special operating mode with substantially reduced maximum vehicle speed and/or maximum power not suitable for normal operation or that activates an ignition interlock preventing the engine from running for as long as the failure remains, shall be regarded as one limitation method  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.1.3.   | Maximum vehicle speed or power is not limited by means of a mechanical throttle stop or any other mechanical stop that limits the opening of a throttle to restrict the engine's air intake.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.1.4.   | The provision and use of any other means enabling the vehicle operator to directly or indirectly adjust, set, select or alter the maximum propulsion unit performance determined on the basis of the information submitted in accordance with Annex I,   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



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Part B, point 2.8., items 1.8.2. to 1.8.9. of Regulation (EU) No 901/2014 resulting in exceedance is prohibited

- 2.1. The vehicle manufacturer shall demonstrate compliance with the specific requirements of points 1.1 to 1.1.2.9 by proving that two or more of the methods implemented, by integrating specific devices and/or functions in the vehicle propulsion system, ensure the required maximum continuous rated or net power and/or maximum vehicle speed limitation and that each method does so in a fully independent manner



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**PASS    FAIL    N/A**





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**APPENDIX 3 – C1**

**Powertrain tampering prevention (anti-tampering) measures**

|   |   |   |
|---|---|---|
| <b>0. Main Requirements</b>   | : |   |
| 0.1. Requirements according to  | : | Reg. (EU) 44/2014 Annex II<br>Including amendment (EU) 2018/295   |
| <b>1. Witness details</b>   | : |   |
| 1.1. Witness  | : | Will Xu   |
| 1.2. Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
| 1.3. Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4. Worst Case Rationale   | : | Both variants checked   |
| 1.5. Tested vehicle   | : | ☆R68HM6000PA000001☆<br>☆R68HM6010PA000001☆  |
| <b>2. Facility and Equipment Checks</b>   | : |   |
| 2.1 Calibration certificates checked and valid,<br>recorded in the following table                                      | : | Not applicable  |
| 2.2. All instruments are equipped with<br>identification label  | : | Not applicable  |
| 2.3. Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Not applicable  |

| Equipment | Serial / Certificate No. | Calibration due |
|-----------|--------------------------|-----------------|
| --        | --                       | --              |

|               |   | PASS                                | FAIL                     | N/A                                 |  |  |  |  |
|---------------|---|-------------------------------------|--------------------------|-------------------------------------|--|--|--|--|
| 2.3.1.        | Interchangeability of the following parts, in an individual or combined way, does not result in an increase of the propulsion unit performance exceeding the values measured and reported at type approval, meaning that in any case the maximum design vehicle speed and/or the maximum continuous rated and/or net engine power of the relevant category remains within the conformity of production boundaries set out in paragraph 4.1.4 of Annex IV. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |  |  |  |  |
| 2.4.          | In no case may the approved maximum design vehicle speed, and/or the maximum continuous rated and/or net engine power of the relevant (sub)-category set out in Annex I to Regulation (EU) No 168/2013, be exceeded.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |  |  |  |  |
| 2.5.          | In the case of chains or cogged belts, the number of teeth is displayed on the pinions.   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |  |  |  |  |
|               | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 100px;">Chains:</td> <td style="width: 100px;">Number of teeth</td> </tr> <tr> <td>Cogged belts:</td> <td></td> </tr> </table>   | Chains:                             | Number of teeth          | Cogged belts:                       |  |  |  |  |
| Chains:       | Number of teeth   |                                     |                          |                                     |  |  |  |  |
| Cogged belts: |   |                                     |                          |                                     |  |  |  |  |
| 2.7.          | If the ignition timing is adjustable, the propulsion unit performance is measured with the ignition advance set within ± 5° of the value at which the maximum engine power is achieved.   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |  |  |  |  |



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00139 Roma

Inspection Report Nr.: CN-118-2-134-WHO23-07035-IR  
Manufacturer: ZHEJIANG YIXING INDUSTRY AND TRADE  
LIMITED  
Type: HM-6

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PASS FAIL N/A

**Specific Requirements for (Sub)-category L1e, L2e and L6e Vehicles**

|      |  |                                     |                          |                          |
|------|--|-------------------------------------|--------------------------|--------------------------|
| 3.1. | Acceptable tolerance for maximum vehicle speed and/or power limitation of category L1e, L2e and L6e vehicles is $\pm 5\%$ of the maximum design vehicle speed and/or net, and/or continuous rated power classification criteria referred to in Annex I to Regulation (EU) No 168/2013. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|------|--|-------------------------------------|--------------------------|--------------------------|

**Requirements for Category L1e, L2e and L6e Vehicles Equipped with a Combustion Engine**

|          |  |                          |                          |                                     |
|----------|--|--------------------------|--------------------------|-------------------------------------|
| 3.2.1.1. | Each intake pipe is fixed with shear-bolts or bolts removable only using special tools. A restricted section, indicated on the outside, is located inside the pipes; at that point, the wall is less than 4 mm in thickness, or 5 mm if composed of a flexible material, such as rubber. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|----------|--|--------------------------|--------------------------|-------------------------------------|

|          |   |                          |                          |                                     |
|----------|---|--------------------------|--------------------------|-------------------------------------|
| 3.2.1.2. | Any interference with the pipes aimed at modifying the restricted section leads to either the destruction of the pipes, or complete and permanent malfunctioning of the engine until they are restored to their approved condition. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|----------|---|--------------------------|--------------------------|-------------------------------------|

|          |   |                          |                          |                                     |
|----------|---|--------------------------|--------------------------|-------------------------------------|
| 3.2.1.3. | A marking with indication of the vehicle (sub-) category as defined in Articles 2 and 4 of, and Annex I to, Regulation (EU) No 168/2013 shall be legible on the pipes | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|----------|---|--------------------------|--------------------------|-------------------------------------|

|          |  |                          |                          |                                     |
|----------|--|--------------------------|--------------------------|-------------------------------------|
| 3.2.2.1. | If an engine is equipped with (a) reed valve(s), it (they) are fixed with shear-bolts, which prevent re-use of its support, or bolts removable only using special tools. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|----------|--|--------------------------|--------------------------|-------------------------------------|

|          |  |                          |                          |                                     |
|----------|--|--------------------------|--------------------------|-------------------------------------|
| 3.2.2.2. | After mounting, the maximum thickness of a cylinder-head gasket, if any, does not exceed 1.3 mm. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|----------|--|--------------------------|--------------------------|-------------------------------------|

|          |   |                          |                          |                                     |
|----------|---|--------------------------|--------------------------|-------------------------------------|
| 3.2.2.3. | For two-stroke engines, the piston, when in position at top dead centre, does not cover the inlet port.<br><i>Note: This requirement does not apply to those parts of the transfer/scavenging port that coincide with the inlet port in the case of vehicles, the engine of which is equipped with an induction system incorporating reed valve(s).</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|----------|---|--------------------------|--------------------------|-------------------------------------|

|          |   |                          |                          |                                     |
|----------|---|--------------------------|--------------------------|-------------------------------------|
| 3.2.2.4. | For two-stroke engines, rotation of the piston through 180° does not increase engine performance. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|----------|---|--------------------------|--------------------------|-------------------------------------|

|          |  |                          |                          |                                     |
|----------|--|--------------------------|--------------------------|-------------------------------------|
| 3.2.2.5. | For two-stroke engines, the maximum thickness of any gasket between the base of the cylinder and the crankcase, if any, may not exceed 0,5 mm, after mounting. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|----------|--|--------------------------|--------------------------|-------------------------------------|

|          |  |                          |                          |                                     |
|----------|--|--------------------------|--------------------------|-------------------------------------|
| 3.2.3.1. | No artificial restriction is permitted in the exhaust system.<br><i>Note: Valve guides of a four-stroke engine are not to be considered artificial restrictions.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|----------|--|--------------------------|--------------------------|-------------------------------------|

|          |   |                          |                          |                                     |
|----------|---|--------------------------|--------------------------|-------------------------------------|
| 3.2.3.2. | Removing the resonator tube, if installed, does not result in an increase in propulsion unit performance. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|----------|---|--------------------------|--------------------------|-------------------------------------|

|          |   |                          |                          |                                     |
|----------|---|--------------------------|--------------------------|-------------------------------------|
| 3.2.3.3. | Part(s) of the exhaust system inside the silencer(s) that determine(s) the effective length of the exhaust pipe are affixed to the silencer(s) or expansion box(es) in such a way that it (they) cannot be removed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|----------|---|--------------------------|--------------------------|-------------------------------------|



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**Continuous Variable Transmission (CVT)**

|        |   | <b>PASS</b>              | <b>FAIL</b>              | <b>N/A</b>                          |
|--------|---|--------------------------|--------------------------|-------------------------------------|
| 3.3.1. | CVT Transmission covers, if available, shall be fixed by means of at a minimum 2 shear bolts or be disassembled only by using special tools   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3.3.2. | The CVT mechanism intended to limit the drive ratio by limitation of the effective distance between two discs shall be fully integrated in one or both discs in such a way that it is impossible to modify the effective distance beyond a limit that would result in an increase of the maximum vehicle speed of more than 10 % of this maximum permissible vehicle speed without destroying the disc system. If the manufacturer employs interchangeable spacer rings in the CVT to adjust the maximum vehicle speed, the complete removal of these rings shall not increase the maximum vehicle speed with more than 10 %. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Specific Requirements for (Sub)-categories L3e-A1 and L4e-A1**

|        |  |                          |                          |                                     |
|--------|--|--------------------------|--------------------------|-------------------------------------|
| 4.1.   | Subcategory L3e-A1 and L4e-A1 vehicles shall comply with the requirements of either points 4.2. to 4.2.3., or points 4.3., 4.3.1. and 4.3.2., or points 4.4., 4.4.1. and 4.4.2., and with points 4.5., 4.6. and 4.7. In addition, they shall comply the requirements of points 3.2.2.1., 3.2.2.3., 3.2.2.4., 3.2.2.5., 3.2.3.1. and 3.2.3.3. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.2.   | An irremovable sleeve must be located in the inlet conduit. If such a sleeve is located in the intake pipe, the latter shall be fixed to the engine block by means of shear-bolts or bolts removable only using special tools  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.2.1. | Sleeve has a minimum hardness of 60 HRC. In the restricted section, it does not exceed 4 mm in thickness.  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.2.2. | Any interference with the sleeve aimed at removing or modifying it leads to either the destruction of the sleeve and its support, or complete and permanent malfunctioning of the engine until it is restored to its approved condition.   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.2.3. | Marking with indication of the vehicle category or categories is:<br>- Legible on the surface of the sleeve*<br>- Not far from it*<br><i>*Strikethrough, as appropriate.</i>   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.2.5. | Each intake pipe is fixed with shear-bolts or bolts removable only using special tools. A restricted section, indicated on the outside, is located inside the pipes; at that point, the wall is:<br>- < 4 mm in thickness*<br>- 5 mm, if composed of a flexible material, such as rubber*<br><i>*Strikethrough, as appropriate.</i>          | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.2.6. | Any interference with the pipes aimed at modifying the restricted section leads to either the destruction of the pipes or complete and permanent malfunctioning of the engine until they are restored to their approved condition.   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.2.7. | Marking with indication of the vehicle (sub)-category, as defined in Articles 2 and 4 of Annex I to Regulation (EU) No 168/2013, is legible on the pipes.  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.2.8. | Part of the inlet conduit located in the cylinder head has a restricted section. In the whole inlet passage, there is not a more restricted section (except the valve-seat section).   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.2.9. | Any interference with the conduit aimed at modifying the restricted section leads to either the destruction of the pipe, or complete and permanent malfunctioning of the engine until it is restored to its approved condition.  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



|         |   |                          |                          |                                     |
|---------|---|--------------------------|--------------------------|-------------------------------------|
| 4.2.10. | Marking with indication of the vehicle category, as referred to in Article 39 of Regulation (EU) No 168/2013, is legible on the cylinder head.  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.2.11. | Diameter of the restricted sections referred to in paragraph 4.2 may vary according to the (sub-)category vehicle concerned.  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.3.    | Each intake pipe shall be fixed with shear-bolts or bolts removable only using special tools. A restricted section, indicated on the outside, shall be located inside the pipes; at that point the wall shall be less than 4 mm in thickness, or 5 mm if composed of a flexible material such as rubber                   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.3.1.  | Any interference with the pipes aimed at modifying the restricted section shall lead to either the destruction of the pipes or complete and permanent malfunctioning of the engine until they are restored to their approved condition.   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.3.2.  | A marking with indication of the vehicle (sub-) category as defined in Articles 2 and 4 of, and Annex I to, Regulation (EU) No 168/2013 shall be legible on the pipes   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.4.    | The part of the inlet conduit located in the cylinder head shall have a restricted section. In the whole inlet passage, there shall not be a more restricted section (except the valve-seat section).   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.4.1.  | Any interference with the conduit aimed at modifying the restricted section shall lead to either the destruction of the pipe or complete and permanent malfunctioning of the engine until it is restored to its approved condition  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.4.2.  | A marking with indication of the vehicle category as defined in Articles 2 and 4 of, and Annex I to, Regulation (EU) No 168/2013 shall be legible on the cylinder head.   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.5.    | The diameter of the restricted sections referred to in point 4.2. may vary according to the (sub-) category vehicle concerned.  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.6.    | The manufacturer shall supply the diameter(s) of the restricted section(s) and demonstrate to the approval authority and technical service that this restricted section is the most critical for the passage of gases, and that there is no other section which, if modified, could increase propulsion unit performance. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4.7.    | After mounting, the maximum thickness of a cylinder-head gasket shall not exceed 1,6 mm   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Additional Specific Requirements for Other (Sub)-categories of Vehicle within the Scope of Point 1.3**

|        |  |                          |                          |                                     |
|--------|--|--------------------------|--------------------------|-------------------------------------|
| 5.1.   | Any variant or version under the same type of vehicle of subcategory L3e-A2 or of subcategory L4e-A2 complying with the conversion requirements set out in point 4 of Annex III, shall not be derived from a L3e-A3 or L4e-A3 type, variant or version with a maximum net engine power and/or maximum continuous rated power more than twice the values set out in the classification of subcategories L3e-A2 or L4e-A2 in Annex I to Regulation (EU) No 168/2013 (e.g. 70 kW to 35 kW or lower, 50 kW to 35 kW or lower).'; | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5.2.   | The manufacturer shall declare that modifications and interchangeability of the characteristics and components listed below shall not lead to: <ul style="list-style-type: none"> <li>- for vehicles of subcategory L3e-A2 and L4e-A2, exceeding the double of the net engine power or maximum continuous rated power</li> <li>- for vehicles of category L7e, exceeding the approved propulsion unit performance;</li> </ul> *Strikethrough, as appropriate.  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5.2.1. | Spark delivery of the ignition system, if applicable;  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5.2.3. | Fuel feed and delivery system;   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5.2.4. | Air intake system including air filter(s) (modification or removal);   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



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|        |   |                          |                          |                                     |
|--------|---|--------------------------|--------------------------|-------------------------------------|
| 5.2.5. | The drive train;  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5.2.6  | The control unit(s) that control(s) the propulsion unit performance of the powertrain;  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5.2.7  | Removal of any component (mechanical, electrical, structural, etc.) which limits full engine load leading to any change in the propulsion unit performance approved in accordance with Annex II (A) to Regulation (EU) No 168/2013. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Additional requirements for (sub) categories L1e, L2e, L3e-A1, L4e-A1 and L6e**

|         |  |                                     |                          |                                     |
|---------|--|-------------------------------------|--------------------------|-------------------------------------|
| 6.2.    | The marking referred to in point 6.1. shall in principle be visible without dismantling the part in question or other parts of the vehicle. Where the bodywork or other parts of the vehicle obscure a marking, the vehicle manufacturer shall provide the competent authorities with indications for opening or dismantling the parts in question and the location of the marking | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6.3.    | The characters, figures or symbols used shall be at least 2,5 mm in height and be easily legible   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6.4.    | The parts, equipment and components must be marked are the following, for all (sub) categories   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6.4.1.  | any electrical/electronic device for the purpose of <del>combustion engine or electric</del> propulsion motor management (ECU <del>ignition module, injectors, intake air temperature</del> etc.),   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6.4.2.  | carburettor or equivalent device,  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.4.3.  | catalytic converter(s) (only if not integrated in the silencer),   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.4.4.  | crankcase,   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.4.5.  | cylinder   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.4.6.  | cylinder head,   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.4.7.  | exhaust pipe(s) (if separate from the silencer),   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.4.8.  | inlet pipe (if cast separately from the carburettor or cylinder or crankcase),   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.4.9.  | intake silencer (air filter),  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.4.10. | restricted section (sleeve or other),  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.4.11. | noise abatement device (silencer(s)),  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.4.12. | transmission driven part (rear chain wheel (sprocket) or pulley),  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.4.13. | transmission driving part (front chain wheel (sprocket) or pulley).  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.5.    | For categories L1e, L2e, and L6e   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.5.1.  | transmission CVT,  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.5.2.  | transmission controller  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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**APPENDIX 3 – C5**  
**Devices to prevent unauthorised use**

|           |  |   |   |
|-----------|--|---|---|
| <b>0.</b> | <b>Main Requirements</b>   | : |   |
| 0.1.      | Requirements according to  | : | Reg. (EU) 44/2014 Annex VI<br>Including amendment (EU) 2018/295<br>UNECE R62.01 Supplement 3  |
| <b>1.</b> | <b>Witness details</b>   | : |   |
| 1.1.      | Witness  | : | Will Xu   |
| 1.2.      | Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
| 1.3.      | Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4.      | Worst Case Rationale   | : | Variant 00 tested to cover variant 01   |
| 1.5.      | Tested vehicle   | : | ☆R68HM6000PA000001☆   |
| <b>2.</b> | <b>Facility and Equipment Checks</b>   | : |   |
| 2.1.      | Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Conform   |
| 2.2.      | All instruments are equipped with<br>identification label  | : | Yes   |
| 2.3.      | Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Yes   |

| Equipment                                  | Serial / Certificate No.  | Calibration due |
|--|---------------------------|-----------------|
| Tape                                       | 665702/37XJ23051051-0008  | 09.05.2024      |
| Tape                                       | 665703/37XJ23051051-0009  | 09.05.2024      |
| Column type<br>electronic tension<br>meter | 180811/37XJ23051051-0015  | 09.05.2024      |
| Torque wrench                              | 0810253/37XJ23051051-0012 | 09.05.2024      |
| Digital Goniometer                         | 744539/37XJ23051051-0004  | 09.05.2024      |

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| <b>Test Results</b> |   | <b>PASS</b>                         | <b>FAIL</b>              | <b>N/A</b>                          |
|---------------------|---|-------------------------------------|--------------------------|-------------------------------------|
| 2.3.                | Type number of device (1, 2, 3 or 4):<br>- <del>Type 1: Solely and positively operated on the steering alone*</del><br>- Type 2: Positively operated on the steering in conjunction with the device, which deactivates the engine*<br>- <del>Type 3: Pre-loaded, operating on the steering in conjunction with the device, which deactivates the engine*</del><br>- <del>Type 4: Positively operated on the transmission*</del><br><i>*Strikethrough, as appropriate.</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5.1.                | Protective device is so designed that:  |                                     |                          |                                     |
| 5.1.1.              | It is necessary to put it out of action in order to enable the vehicle to be steered, or to be driven or moved forward in a straight line   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5.1.2.              | In the case of protective devices of Type 4, the device is so designed that it is necessary to put it out of action in order to release the transmission. If this device is activated by the control of the parking device, it acts in conjunction with the device that deactivates the engine of the vehicle   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5.1.3.              | It is only possible to extract the key with the bolt in the fully engaged or fully disengaged position. Any intermediate position of the key that risks subsequent engagement of the bolt – even if the key of the protective device is inserted – is excluded.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5.3.                | Protective device referred to in paragraph 5.1 above – and the vehicle components on which it operates – is so designed that it cannot rapidly and without attracting attention be opened, rendered ineffective, or destroyed by, for example, the use of low-cost, easily concealed tools, equipment or fabrications readily available to the public at large.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5.4.                | Protective device is mounted on the vehicle as an item of original equipment (i.e. equipment installed by the vehicle manufacturer prior to first retail sale). Lock is securely assembled in the protective device.<br><i>Note: If the lock can be extracted using the key after the cover or any other retention device has been removed, this is not in contradiction with the requirement.</i>  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5.5.                | Key locking system provides at least 1,000 different key combinations, or a number equal to the total number of vehicles manufactured annually, if less than 1,000. In vehicles of one type, the frequency of occurrence of each combination is roughly one per 1,000.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5.6.                | Key and lock are not visibly coded.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5.7.                | Lock is so designed, constructed and fitted that the turning of the lock cylinder (when in the locked position) with a torque of less than 0.245 mdaN, is not possible with anything other than the mating key.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5.7.1.              | For lock cylinders with pin tumblers, no more than two identical tumblers operating in the same direction are positioned adjacent to each other, and in a lock there are not > 60 % identical tumblers.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5.7.2.              | For lock cylinders with disc tumblers, no more than two identical tumblers operating in the same direction are positioned adjacent to each other, and in a lock there are not > 50 % identical tumblers.  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |





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LIMITED  
Type: HM-6

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| <b>Test Results</b>              |  | <b>PASS</b>                         | <b>FAIL</b>              | <b>N/A</b>                          |
|----------------------------------|--|-------------------------------------|--------------------------|-------------------------------------|
| 5.8.                             | Protective devices are such as to exclude any risk, while the vehicle is in motion with the engine running, of accidental blockage likely to compromise safety in particular.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5.9.                             | Protective device, if it is of Type 1, Type 2 or Type 3 is, in its activated position, strong enough to withstand, without damage to the steering mechanism likely to compromise safety, the application of a torque of 20 mdaN about the axis of the steering shaft in both directions under static conditions. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5.10.                            | Protective device, if it is of Type 1, Type 2 or Type 3, is so designed that the steering can only be locked at an angle of $\geq 20^\circ$ to the left and/or the right of the straight-ahead position.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>Particular Specifications</b> |  |                                     |                          |                                     |
| 6.1.1.                           | Lockable only by movement of key (handlebars being in appropriate position for bolt to engage in slot).<br><i>Note: Types 1 and 2 only.</i>  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6.1.2.                           | Pre-loading of bolt only possible by separate action combined with or in addition to turning of key/Removal of key not possible after bolt has been pre-loaded other than in accordance with 5.1.3.<br><i>Note: Type 3 only.</i>   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.2.                             | Bolt prevented from engaging when device is in position that permits starting of engine.<br><i>Note: Types 2 and 3 only.</i>   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.3.                             | Impossible to prevent device functioning when set.<br><i>Note: Type 3 only.</i>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                                  | Device subjected to wear test for 2,500 cycles.<br><i>Note: Type 3 only.</i>   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.4.                             | Device in good working order and complies with 5.7, 5.8, 5.9 and 6.3 after wear test.<br><i>Note: Type 3 only.</i>   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Vehicles of Categories L1e, L2e, L3e, L4e, L5e, L6e and L7e, which are not fitted with Handlebars: NOT APPLICABLE**





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**APPENDIX 3 - C6**  
**Electromagnetic compatibility (EMC)**

|           |  |   |   |
|-----------|--|---|---|
| <b>0.</b> | <b>Main Requirements</b>   | : |   |
| 0.1.      | Requirements according to  | : | Reg. (EU) 44/2014 Annex VII<br>Including amendment (EU) 2018/295<br>UNECE R10.05  |
| <b>1.</b> | <b>Witness details</b>   | : |   |
| 1.1.      | Witness  | : | Will Xu   |
| 1.2.      | Location of Test   | : | Zhejiang Kezheng Electronic Information Product Testing<br>Co.,Ltd.<br><br>No.316, Jianghong South Road, Binjiang District,<br>Hangzhou, Zhejiang Province, PEOPLE'S REPUBLIC OF<br>CHINA |
| 1.3.      | Date of Test   | : | 2023/05/22  |
| 1.4.      | Worst Case Rationale   | : | Variant 00 tested to cover variant 01   |
| 1.5.      | Tested vehicle   | : | ☆R68HM6000PA000001☆   |
| <b>2.</b> | <b>Facility and Equipment Checks</b>   | : |   |
| 2.1       | Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Conform   |
| 2.2.      | All instruments are equipped with<br>identification label  | : | Yes   |
| 2.3.      | Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Yes   |

| Equipment               | Serial / Certificate No.      | Calibration due   |
|-------------------------|-------------------------------|-------------------|
| EMI Receiver            | 101250 / LAWXD202209100017    | 09 September 2023 |
| Signal generator        | N5181A / LAWXD202303060010    | 05 March 2024     |
| Power amplifier         | AS0206-50 / LAWXD202303060013 | 05 March 2024     |
| Receiving antenna       | VULB 9163 / LAWXD202303060207 | 05 March 2024     |
| Harmonic flicker tester | 72621/LAWXD202209100004       | 09 September 2023 |
| Surge test system       | 1727/ LAWXD202209100025       | 09 September 2023 |

**3 Test results:**

**3.1. Specifications in configurations other than REESS charging mode coupled to power grid**

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|        |  |   |                                       |
|--------|--|---|---------------------------------------|
| 3.1.1. | Broadband electromagnetic radiation from vehicles  | : | 3m indoor test, see test result below |
| 3.1.2. | Narrowband electromagnetic radiation from vehicles | : | 3m indoor test, see test result below |
| 3.1.3. | Immunity of vehicles to electromagnetic radiation  | : | Field strength=30 V/m                 |



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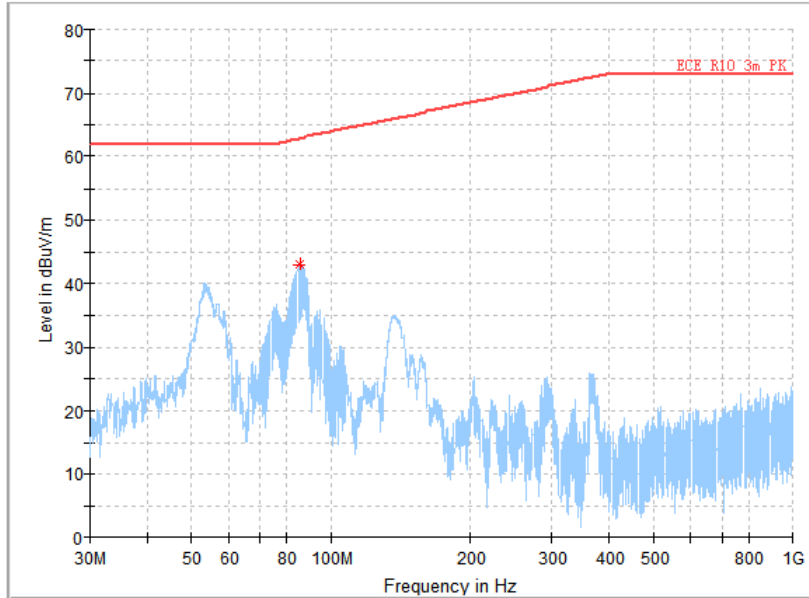
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Full Spectrum

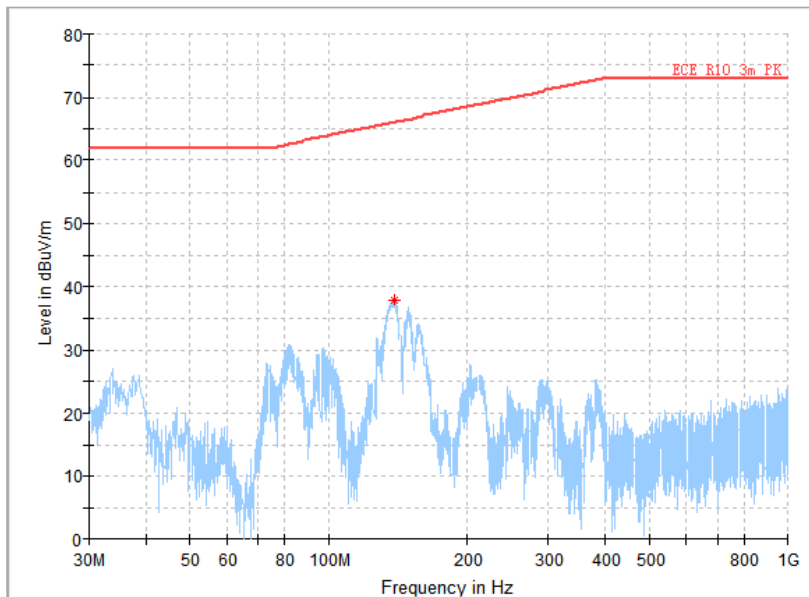


Critical Freqs

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 85.726500       | 43.10            | 62.88          | 19.77       |                 |                 | 180.0       | V   | 0.0           | 11.7       |

BB\_Left\_Hor

Full Spectrum



Critical Freqs

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 138.931000      | 37.97            | 66.05          | 28.08       |                 |                 | 180.0       | H   | 0.0           | 10.3       |



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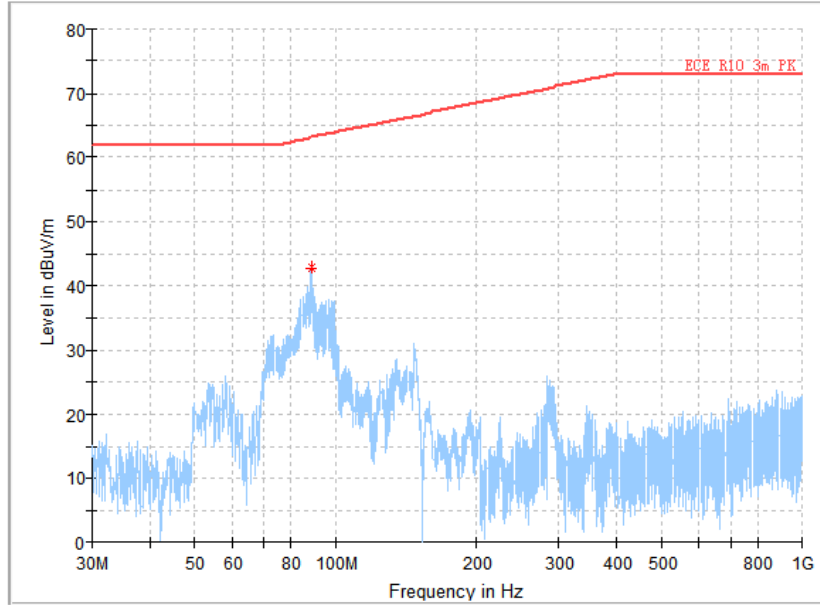
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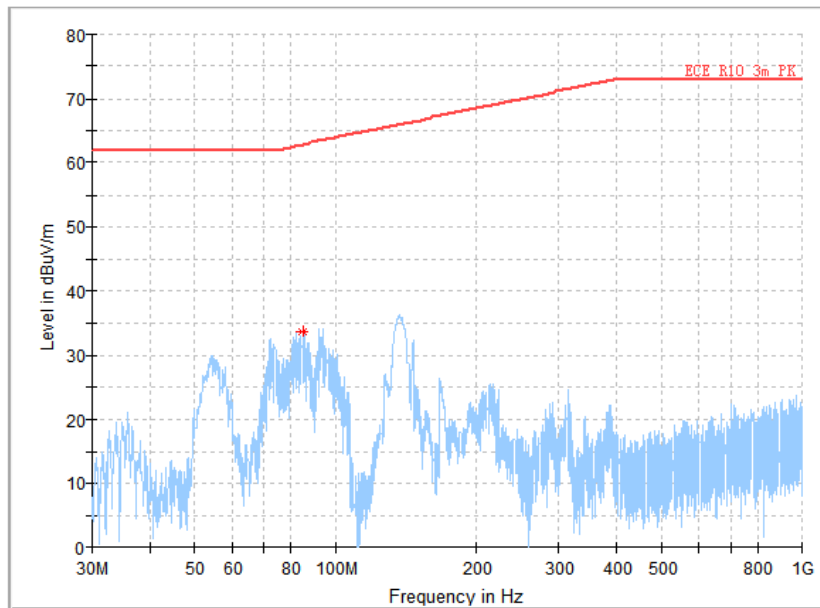


Critical Freqs

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|-----------|
| 88.491000       | 42.76            | 63.09          | 20.33       |                 |                 | 180.0       | V   | 180.0         | 12.5      |

BB\_Right\_Hor

Full Spectrum



Critical Freqs

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|-----------|
| 84.999000       | 33.76            | 62.82          | 29.06       |                 |                 | 180.0       | H   | 180.0         | 11.5      |



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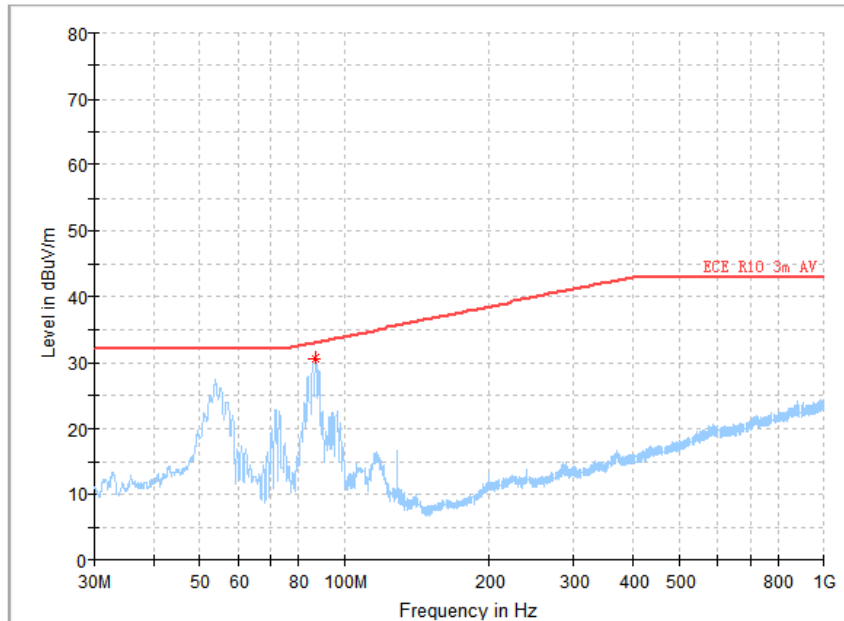
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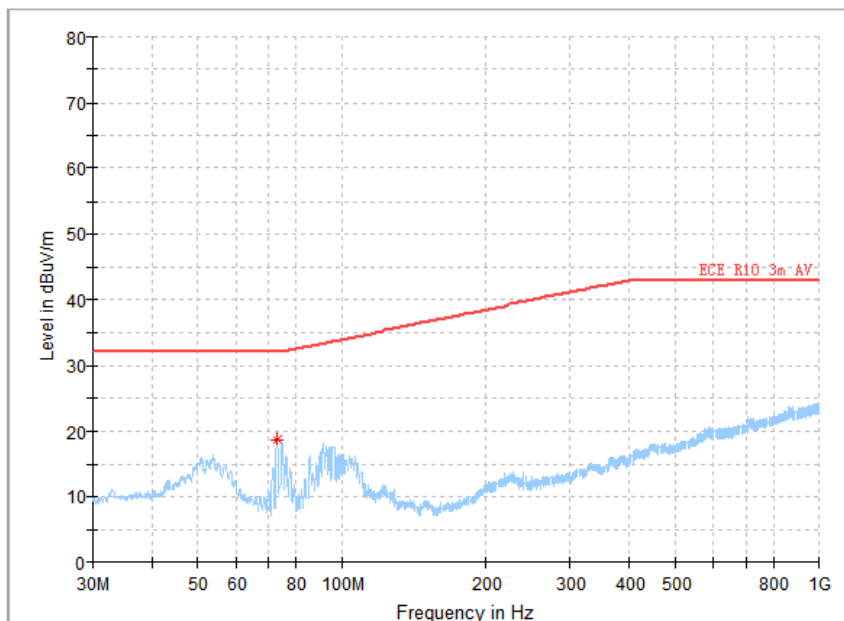
←

**Critical Freqs**

| Frequency (MHz) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 86.971333       | 30.73            | 32.97          | 2.24        | ---             | ---             | 180.0       | V   | 0.0           | 12.1       |

NB\_Left\_Hor

Full Spectrum



←

**Critical Freqs**

| Frequency (MHz) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 73.359000       | 18.67            | 32.00          | 13.33       | ---             | ---             | 180.0       | H   | 0.0           | 10.2       |



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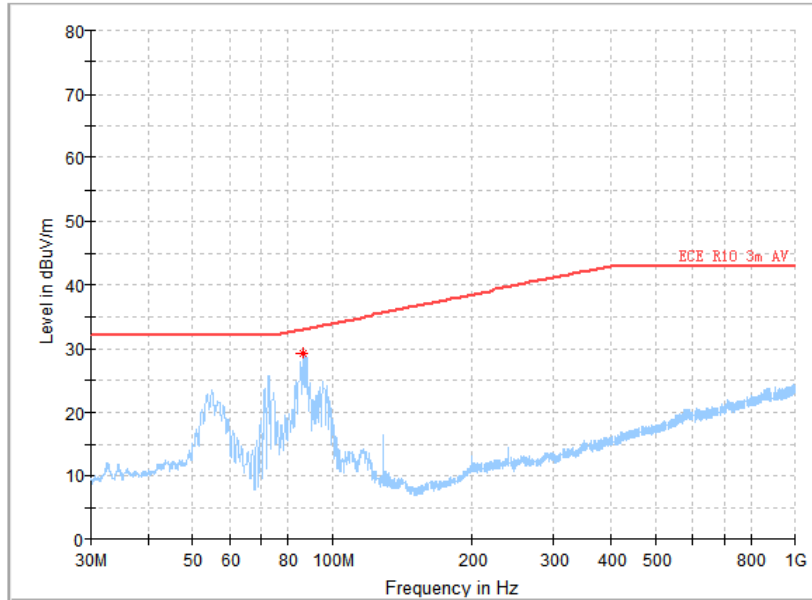
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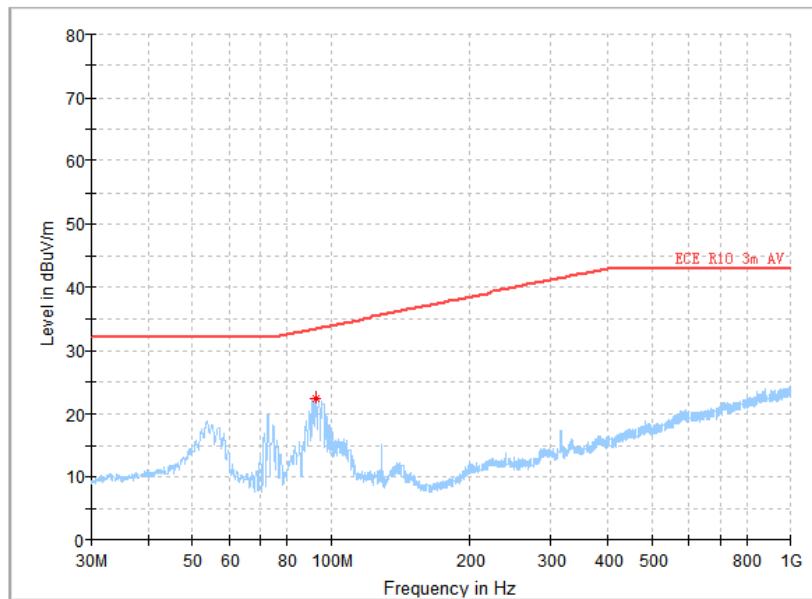


Critical Freqs

| Frequency (MHz) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 86.486333       | 29.13            | 32.94          | 3.81        |                 |                 | 180.0       | V   | 180.0         | 11.9       |

NB\_Right\_Hor

Full Spectrum



Critical Freqs

| Frequency (MHz) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 92.565000       | 22.41            | 33.38          | 10.98       |                 |                 | 180.0       | H   | 180.0         | 13.1       |



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**3.2. Additional specifications in configuration  
REESS charging mode coupled to power  
grid**

|        |   |   |                       |
|--------|---|---|-----------------------|
| 3.2.1. | Broadband electromagnetic radiation from vehicle  | : | Test result as below  |
| 3.2.2. | Emission of harmonics on AC power lines from vehicle  | : | Conform               |
| 3.2.3. | Emission of voltage changes, fluctuations, flickers on AC power lines from vehicle                        | : | Test result as below  |
| 3.2.4. | Emission of radiofrequency conducted disturbances on AC or DC power lines from vehicle                    | : | Test result as below  |
| 3.2.5. | Emission of radiofrequency conducted disturbances on network and telecommunication access from vehicle    | : | Not applicable        |
| 3.2.6. | Immunity of vehicle to electromagnetic radiation  | : | Field strength=30 V/m |
| 3.2.7. | Immunity of vehicle to electrical fast transient/burst disturbances conducted along AC and DC power lines | : | Conform               |
| 3.2.8. | Immunity of vehicle to surge conducted along AC and DC power lines  | : | Conform               |



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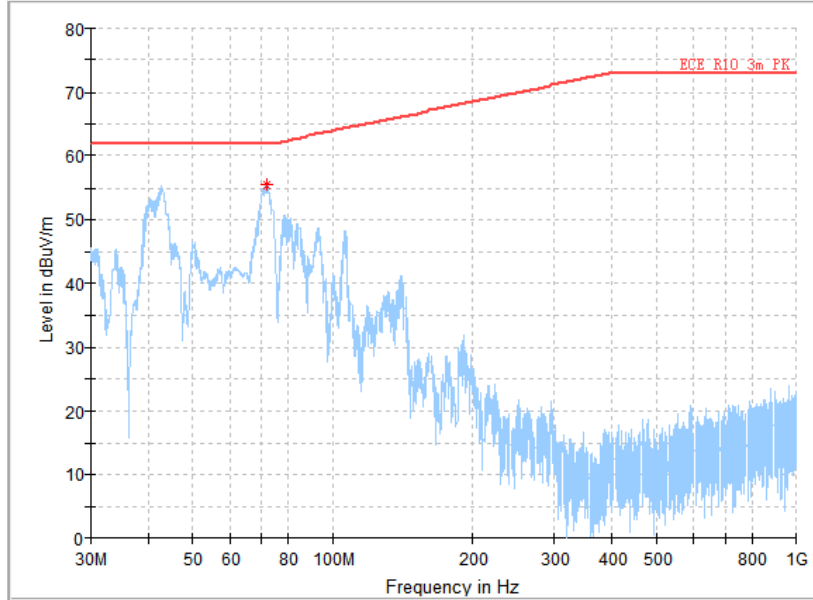
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Full Spectrum

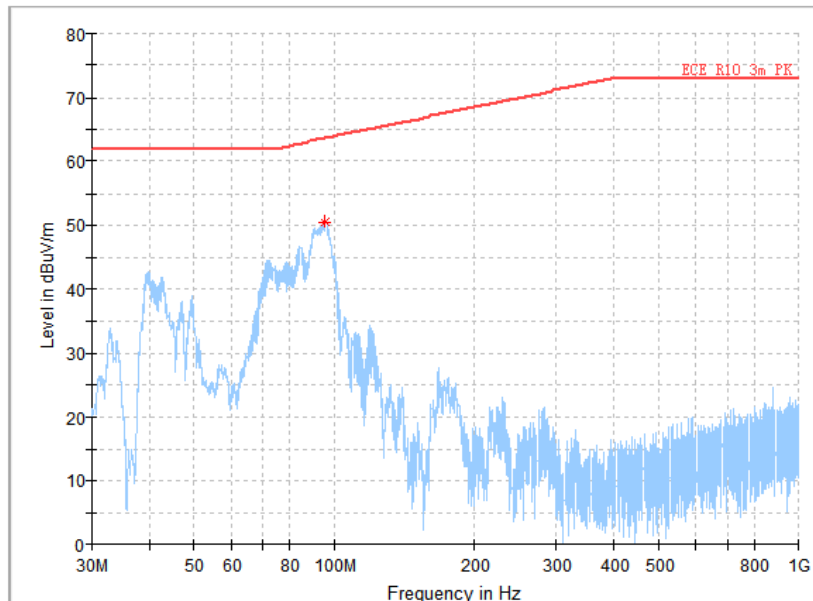


Critical Freqs

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 72.098000       | 55.48            | 62.00          | 6.52        |                 |                 | 180.0       | V   | 0.0           | 10.2       |

BB\_Left\_Hor\_Charge

Full Spectrum



Critical Freqs

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 95.766000       | 50.63            | 63.61          | 12.98       |                 |                 | 180.0       | H   | 0.0           | 13.4       |



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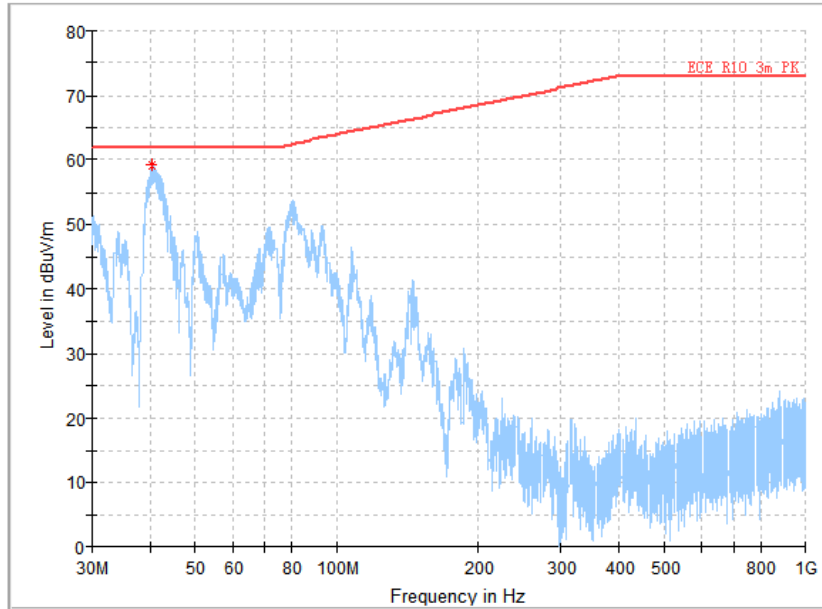
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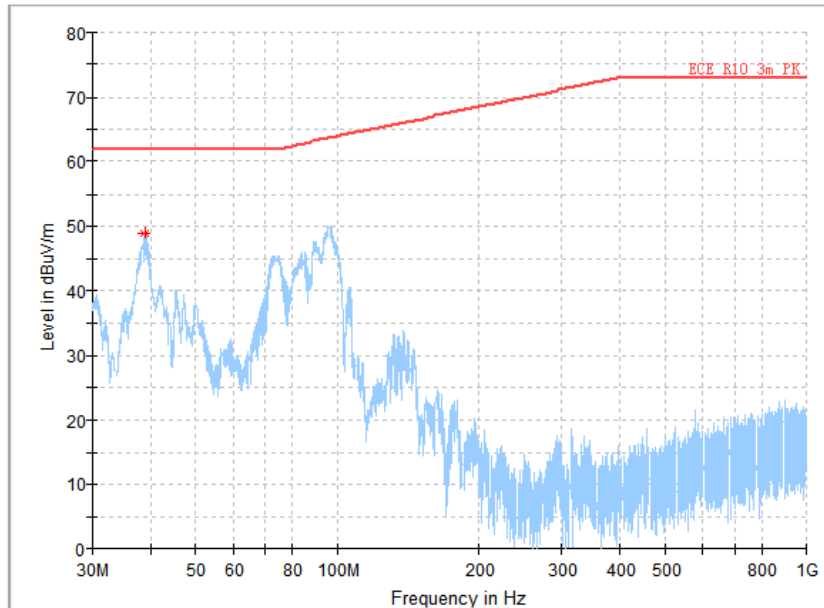


**Critical Freqs**

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 40.427500       | 59.26            | 62.00          | 2.74        |                 |                 | 180.0       | V   | 180.0         | 13.5       |

BB\_Right\_Hor\_Charge

Full Spectrum



**Critical Freqs**

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 38.924000       | 48.89            | 62.00          | 13.11       |                 |                 | 180.0       | H   | 180.0         | 13.3       |





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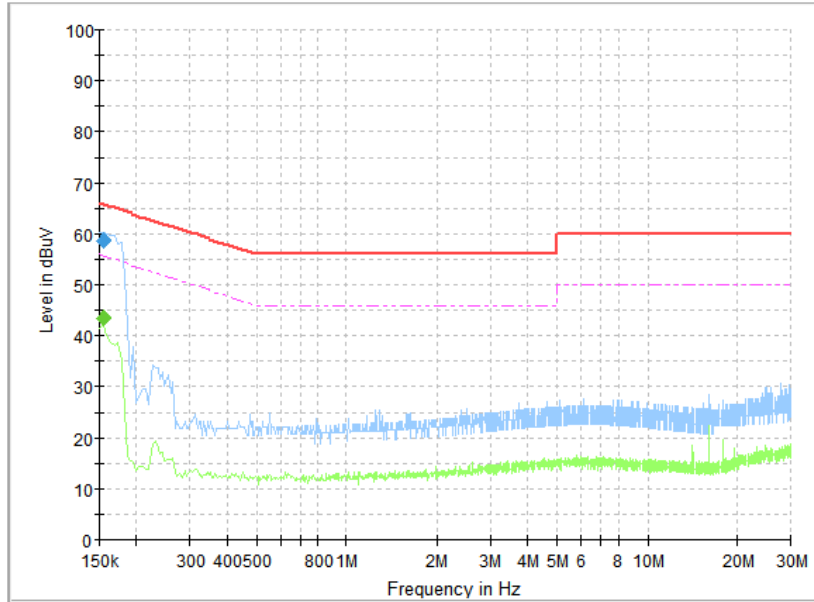
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Conducted\_L

Full Spectrum

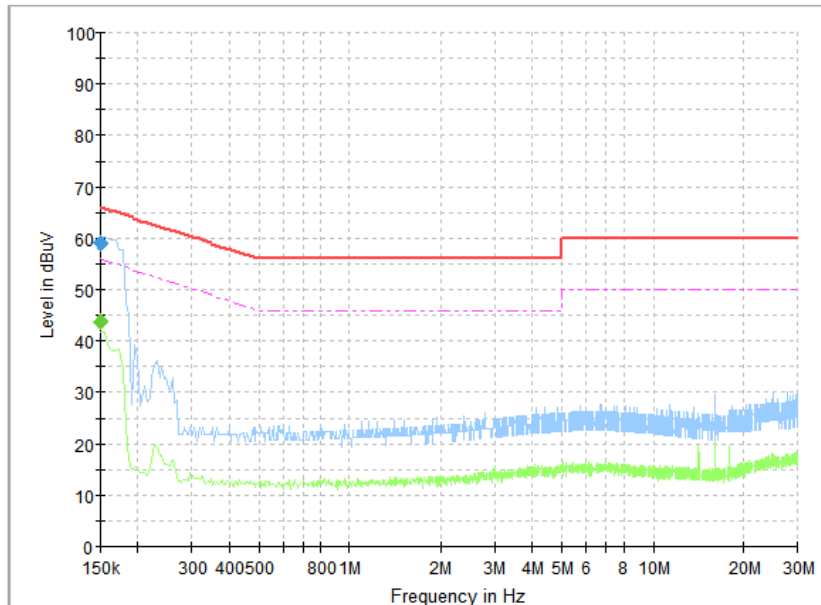


Critical Freqs

| Frequency (MHz) | MaxPeak (dBuV) | Average (dBuV) | Limit (dBuV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|-----------------|-----------------|------|--------|------------|
| 0.154500        | 59.61          | 42.42          | 65.06        | 5.45        |                 |                 | L1   | ON     | 20.0       |
| 0.154500        |                |                | 55.75        | 13.33       |                 |                 | L1   | ON     | 20.0       |

Conducted N

Full Spectrum



Critical Freqs

| Frequency (MHz) | MaxPeak (dBuV) | Average (dBuV) | Limit (dBuV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|-----------------|-----------------|------|--------|------------|
| 0.150000        | 60.23          | 41.89          | 65.75        | 5.53        |                 |                 | N    | ON     | 20.0       |
| 0.150000        |                |                | 55.75        | 13.86       |                 |                 | N    | ON     | 20.0       |



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**Test File:** F-20230522\_2822  
**EUT:**  
**Test Standard:** Test per IEC 61000-3-3 Ed. 3.1 : 2017  
**Test Class:** Flicker Test, All Parameters  
**Test Result:** **PASS**  
**Test Date:** 2023/5/22  
**Start Time:** 9:11:07  
**Stop Time:** 9:21:35  
**Test Duration (min):** 10

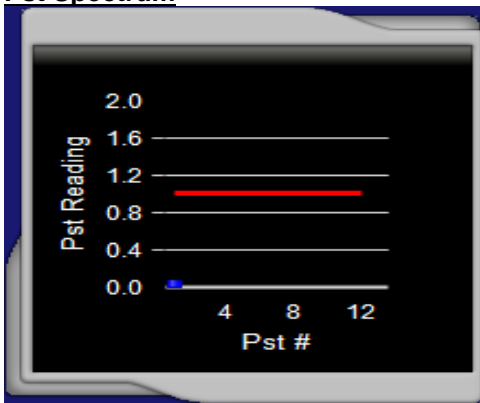
**Source Qualification:** Compliance with IEC 61000-3-3 Ed. 3.1 : 2017

**Customer:**  
**Test By:**  
**Comments:**

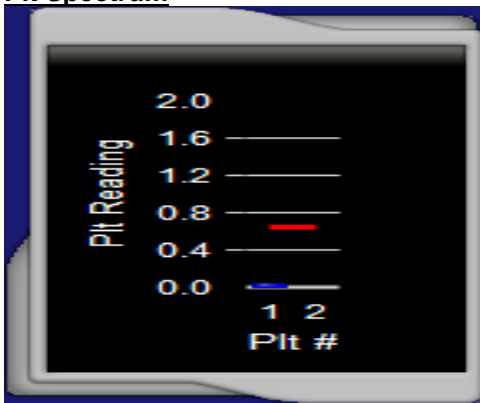
**Phase A**

|                      |               |                        |               |
|----------------------|---------------|------------------------|---------------|
| <b>Vrms (Volts):</b> | 220.34        | <b>Frequency (Hz):</b> | 50.00         |
| <b>I_rms (Amps):</b> | 2.684         | <b>Power (W):</b>      | 392.7         |
| <b>V-THD (%):</b>    | 1.525         | <b>T-Max (ms):</b>     | 0 (500)       |
| <b>dmax (%):</b>     | 0.000 (4.000) | <b>Hi dmax (%):</b>    | 0.000 (4.000) |
| <b>dc (%):</b>       | 0.000 (3.300) | <b>Hi dc (%):</b>      | 0.000 (3.300) |
| <b>Pst-1 :</b>       | 0.062 (1.000) |                        |               |
| <b>Plt :</b>         | 0.027 (0.650) |                        |               |

**Pst Spectrum**



**Plt Spectrum**





**CETOC TS**

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Via della Bufalotta, 374,  
00139 Roma

Inspection Report Nr.: CN-118-2-134-WHO23-07035-IR  
Manufacturer: ZHEJIANG YIXING INDUSTRY AND TRADE  
LIMITED  
Type: HM-6

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**Test File:** H-20230522\_2821

**EUT:**

**Test Standard:** Test per IEC 61000-3-2 Ed. 5.1 : 2020

**Test Class:** (Class A Test) - No inter-harmonics

**Test Result:** **PASS - POHC Allowable**

**Test Date:** 2023/5/22

**Start Time:** 9:06:28

**Stop Time:** 9:09:08

**Test Duration (min):** 2.5

**Source Qualification:** Compliance with IEC 61000-3-2 Ed. 5.1 : 2020

**Power Source Distortion:** **OK**

**Customer:**

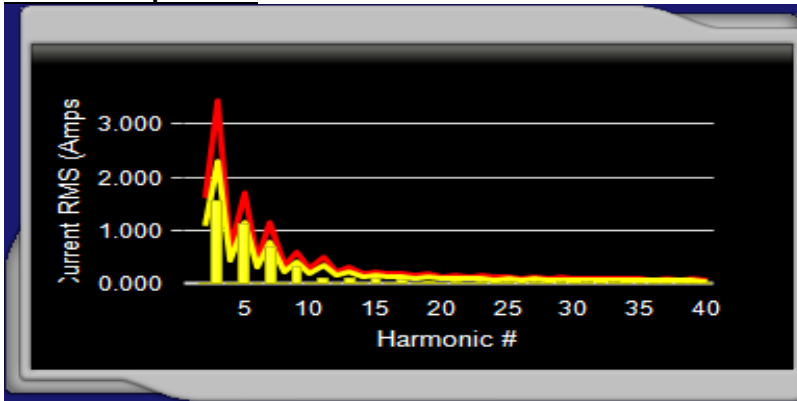
**Test By:**

**Comments:**

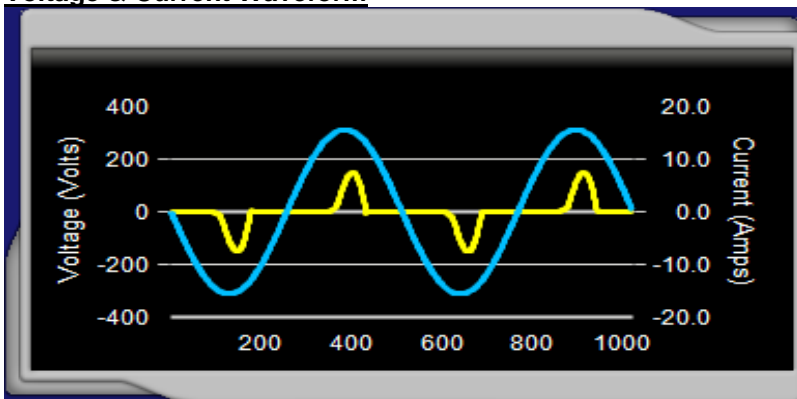
**General Test Data: (Phase A)**

|   |                        |                       |               |
|---|------------------------|-----------------------|---------------|
| Vrms (Volts)/V-pk/V-CF:                     | 221.14 / 310.2 / 1.403 | Frequency (Hz):       | 50.0001       |
| I <sub>rms</sub> (Amps):                    | 2.745                  | Power (VA)/VAR:       | 606.9 / 463.6 |
| I <sub>fund</sub> /I <sub>ref</sub> (Amps): | 1.804 / 1.804          | Power (W):            | 391.9         |
| I <sub>peak</sub> (Amps)/I-CF:              | 7.578 / 2.753          | Power Factor:         | 0.645         |
| V-THD (%):                                  | 0.43                   | I-THD (%):            | 114.64        |
| POHC (A):                                   | 0.079 (method C.3)     | POHC Limit (A):       | 0.250         |
| I-THC (A):                                  | 2.068                  | Meas. Pwr (Min / Max) | 390.9W/392.0W |
| Phase angle of H5 (deg):                    | 303.7                  |                       |               |

**Harmonic Spectrum**



**Voltage & Current Waveform**





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**Current Harmonics (values at the end of test)**

| Harm No. | Harm. Ave. | Harm. Limit (100%) | % Of Limits | Result (Ave.) | Result (Max.) | Harm. Win. | Harm. Win. (150%) | % Of Max |
|----------|------------|--------------------|-------------|---------------|---------------|------------|-------------------|----------|
| 2        | 0.0010     | 1.0800             | 0.1         | PASS          | PASS          | 0.0014     | 1.6200            | 0.1      |
| 3        | 1.5497     | 2.3000             | 67.4        | PASS          | PASS          | 1.5507     | 3.4500            | 44.9     |
| 4        | 0.0015     | 0.4300             | 0.3         | PASS          | PASS          | 0.0020     | 0.6450            | 0.3      |
| 5        | 1.1286     | 1.1400             | 99.0        | PASS          | PASS          | 1.1292     | 1.7100            | 66.0     |
| 6        | 0.0016     | 0.3000             | 0.5         | PASS          | PASS          | 0.0020     | 0.4500            | 0.4      |
| 7        | 0.6763     | 0.7700             | 87.8        | PASS          | PASS          | 0.6766     | 1.1550            | 58.6     |
| 8        | 0.0017     | 0.2300             | 0.8         | PASS          | PASS          | 0.0020     | 0.3450            | 0.6      |
| 9        | 0.3094     | 0.4000             | 77.3        | PASS          | PASS          | 0.3095     | 0.6000            | 51.6     |
| 10       | 0.0013     | 0.1840             | 0.7         | PASS          | PASS          | 0.0014     | 0.2760            | 0.5      |
| 11       | 0.1071     | 0.3300             | 32.5        | PASS          | PASS          | 0.1072     | 0.4950            | 21.7     |
| 12       | 0.0010     | 0.1530             | 0.6         | PASS          | PASS          | 0.0011     | 0.2295            | 0.5      |
| 13       | 0.0989     | 0.2100             | 47.1        | PASS          | PASS          | 0.0991     | 0.3150            | 31.4     |
| 14       | 0.0006     | 0.1310             | 0.4         | PASS          | PASS          | 0.0007     | 0.1965            | 0.4      |
| 15       | 0.1036     | 0.1500             | 69.1        | PASS          | PASS          | 0.1037     | 0.2250            | 46.1     |
| 16       | 0.0003     | 0.1150             | 0.3         | PASS          | PASS          | 0.0004     | 0.1725            | 0.2      |
| 17       | 0.0744     | 0.1320             | 56.4        | PASS          | PASS          | 0.0745     | 0.1980            | 37.6     |
| 18       | 0.0004     | 0.1020             | 0.4         | PASS          | PASS          | 0.0005     | 0.1530            | 0.3      |
| 19       | 0.0349     | 0.1180             | 29.5        | PASS          | PASS          | 0.0350     | 0.1770            | 19.8     |
| 20       | 0.0003     | 0.0920             | 0.3         | PASS          | PASS          | 0.0003     | 0.1380            | 0.2      |
| 21       | 0.0322     | 0.1070             | 30.1        | PASS          | PASS          | 0.0324     | 0.1605            | 20.2     |
| 22       | 0.0002     | 0.0830             | 0.2         | PASS          | PASS          | 0.0002     | 0.1245            | 0.2      |
| 23       | 0.0445     | 0.0970             | 45.9        | PASS          | PASS          | 0.0446     | 0.1455            | 30.7     |
| 24       | 0.0003     | 0.0760             | 0.4         | PASS          | PASS          | 0.0004     | 0.1140            | 0.3      |
| 25       | 0.0356     | 0.0900             | 39.6        | PASS          | PASS          | 0.0357     | 0.1350            | 26.5     |
| 26       | 0.0003     | 0.0700             | 0.5         | PASS          | PASS          | 0.0004     | 0.1050            | 0.4      |
| 27       | 0.0168     | 0.0830             | 20.3        | PASS          | PASS          | 0.0169     | 0.1245            | 13.6     |
| 28       | 0.0002     | 0.0650             | 0.2         | PASS          | PASS          | 0.0002     | 0.0975            | 0.2      |
| 29       | 0.0185     | 0.0770             | 24.0        | PASS          | PASS          | 0.0187     | 0.1155            | 16.2     |
| 30       | 0.0003     | 0.0610             | 0.5         | PASS          | PASS          | 0.0004     | 0.0915            | 0.4      |
| 31       | 0.0222     | 0.0720             | 30.8        | PASS          | PASS          | 0.0223     | 0.1080            | 20.6     |
| 32       | 0.0005     | 0.0570             | 0.9         | PASS          | PASS          | 0.0006     | 0.0855            | 0.7      |
| 33       | 0.0159     | 0.0680             | 23.4        | PASS          | PASS          | 0.0161     | 0.1020            | 15.8     |
| 34       | 0.0001     | 0.0540             | 0.3         | PASS          | PASS          | 0.0002     | 0.0810            | 0.2      |
| 35       | 0.0119     | 0.0640             | 18.5        | PASS          | PASS          | 0.0120     | 0.0960            | 12.5     |
| 36       | 0.0003     | 0.0510             | 0.6         | PASS          | PASS          | 0.0004     | 0.0765            | 0.5      |
| 37       | 0.0139     | 0.0600             | 23.2        | PASS          | PASS          | 0.0140     | 0.0900            | 15.6     |
| 38       | 0.0002     | 0.0480             | 0.5         | PASS          | PASS          | 0.0003     | 0.0720            | 0.4      |
| 39       | 0.0129     | 0.0570             | 22.7        | PASS          | PASS          | 0.0130     | 0.0855            | 15.2     |
| 40       | 0.0001     | 0.0460             | 0.3         | PASS          | PASS          | 0.0002     | 0.0690            | 0.3      |

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00139 Roma

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Manufacturer: ZHEJIANG YIXING INDUSTRY AND TRADE  
LIMITED  
Type: HM-6

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**Power Source Verification Data**

| Harm No. | Harm. Value | Harm. Limit | % Of Limits | % Of Vfund | Result |
|----------|-------------|-------------|-------------|------------|--------|
| 2        | 0.079       | 0.440       | 17.949      | 0.036      | OK     |
| 3        | 0.927       | 1.980       | 46.820      | 0.419      | OK     |
| 4        | 0.034       | 0.440       | 7.836       | 0.016      | OK     |
| 5        | 0.194       | 0.880       | 22.044      | 0.088      | OK     |
| 6        | 0.028       | 0.440       | 6.284       | 0.013      | OK     |
| 7        | 0.151       | 0.660       | 22.906      | 0.068      | OK     |
| 8        | 0.014       | 0.440       | 3.179       | 0.006      | OK     |
| 9        | 0.057       | 0.440       | 13.034      | 0.026      | OK     |
| 10       | 0.013       | 0.440       | 2.944       | 0.006      | OK     |
| 11       | 0.034       | 0.220       | 15.304      | 0.015      | OK     |
| 12       | 0.018       | 0.220       | 8.167       | 0.008      | OK     |
| 13       | 0.022       | 0.220       | 10.040      | 0.010      | OK     |
| 14       | 0.012       | 0.220       | 5.621       | 0.006      | OK     |
| 15       | 0.034       | 0.220       | 15.479      | 0.015      | OK     |
| 16       | 0.013       | 0.220       | 6.036       | 0.006      | OK     |
| 17       | 0.020       | 0.220       | 9.074       | 0.009      | OK     |
| 18       | 0.011       | 0.220       | 5.139       | 0.005      | OK     |
| 19       | 0.013       | 0.220       | 5.743       | 0.006      | OK     |
| 20       | 0.013       | 0.220       | 5.754       | 0.006      | OK     |
| 21       | 0.015       | 0.220       | 6.953       | 0.007      | OK     |
| 22       | 0.008       | 0.220       | 3.670       | 0.004      | OK     |
| 23       | 0.020       | 0.220       | 9.194       | 0.009      | OK     |
| 24       | 0.015       | 0.220       | 6.672       | 0.007      | OK     |
| 25       | 0.016       | 0.220       | 7.294       | 0.007      | OK     |
| 26       | 0.010       | 0.220       | 4.518       | 0.004      | OK     |
| 27       | 0.016       | 0.220       | 7.137       | 0.007      | OK     |
| 28       | 0.015       | 0.220       | 6.624       | 0.007      | OK     |
| 29       | 0.010       | 0.220       | 4.613       | 0.005      | OK     |
| 30       | 0.011       | 0.220       | 4.873       | 0.005      | OK     |
| 31       | 0.011       | 0.220       | 5.047       | 0.005      | OK     |
| 32       | 0.007       | 0.220       | 3.149       | 0.003      | OK     |
| 33       | 0.010       | 0.220       | 4.480       | 0.004      | OK     |
| 34       | 0.010       | 0.220       | 4.769       | 0.005      | OK     |
| 35       | 0.009       | 0.220       | 4.028       | 0.004      | OK     |
| 36       | 0.007       | 0.220       | 3.042       | 0.003      | OK     |
| 37       | 0.009       | 0.220       | 4.288       | 0.004      | OK     |
| 38       | 0.006       | 0.220       | 2.576       | 0.003      | OK     |
| 39       | 0.011       | 0.220       | 5.169       | 0.005      | OK     |
| 40       | 0.006       | 0.220       | 2.569       | 0.003      | OK     |

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**CETOC TS**

CETOC Technical Service srl  
Via della Bufalotta, 374,  
00139 Roma

Inspection Report Nr.: CN-118-2-134-WHO23-07035-IR  
Manufacturer: ZHEJIANG YIXING INDUSTRY AND TRADE  
LIMITED  
Type: HM-6

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**APPENDIX 3 - C7**  
**External projections**

|           |  |   |   |
|-----------|--|---|---|
| <b>0.</b> | <b>Main Requirements</b>   | : |   |
| 0.1.      | Requirements according to  | : | Reg. (EU) 44/2014 Annex VIII<br>Including amendment (EU) 2018/295   |
| <b>1.</b> | <b>Witness details</b>   | : |   |
| 1.1.      | Witness  | : | Will Xu   |
| 1.2.      | Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
|           | <a href="#">e13*168/2013*01895*00</a>  |   |   |
|           | <a href="#">Société Nationale de Certification et d'Homologation</a>   |   |   |
| 1.3.      | Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4.      | Worst Case Rationale   | : | Variant 00 tested to cover variant 01   |
| 1.5.      | Tested vehicle   | : | ☆R68HM6000PA000001☆   |
| <b>2.</b> | <b>Facility and Equipment Checks</b>   | : |   |
| 2.1       | Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Conform   |
| 2.2.      | All instruments are equipped with<br>identification label  | : | Yes   |
| 2.3.      | Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Yes   |

| Equipment                     | Serial / Certificate No.    | Calibration due |
|-------------------------------|-----------------------------|-----------------|
| Projection check cylinder     | wd-22/37XJ23051051-0006     | 09.05.2024      |
| Pointer Shore hardness tester | 097332201/37XJ23051051-0028 | 09.05.2024      |

|           |   |  |
|-----------|---|--|
| <b>3.</b> | <b>Test results:</b>  |  |
| 3.1.      | Vehicle assessment  | : Vehicle is in a straight line, vertical position as level floor with a rider sits on the moped in normal position and steering free to move.                 |
| 3.2.      | Group 1 parts: Grazing ( $0^\circ \leq \alpha < 45^\circ$ )                                       | : rear view mirrors.   |
| 3.3.      | Group 1 parts: Collision: ( $45^\circ \leq \alpha < 90^\circ$ )                                   | : Front direction indicator lamps, Front brake lever and rear brake lever, Passenger footrest, Rear direction indicator lamps, Rear registration plate support |
| 3.4.      | Windscreen  | : Not applicable   |
| 3.5.      | Covers that resemble windscreens or fairings installed to protect instrument cluster or head lamp | : Not applicable   |
| 3.6.      | Uncovered levers  | : Conform as per requirements  |
| 3.7.      | Mudguard  | : Conform as per requirements  |
| 3.8.      | All others outward pointed and protruding parts of the vehicles                                   | : Conform as per requirements  |
| 3.9.      | Other requirements as per directive described in this test record                                 | : Conform as per requirements  |



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**APPENDIX 3 - C10**

Société Nationale de Certification et d'Homologation **Masses and dimensions**

|           |  |   |   |
|-----------|--|---|---|
| <b>0.</b> | <b>Main Requirements</b>   | : |   |
| 0.1.      | Requirements according to  | : | Reg. (EU) 44/2014 Annex XI<br>Including amendment (EU) 2018/295   |
| <b>1.</b> | <b>Witness details</b>   | : |   |
| 1.1.      | Witness  | : | Will Xu   |
| 1.2.      | Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
| 1.3.      | Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4.      | Worst Case Rationale   | : | Variant 00 tested to cover variant 01   |
| 1.5.      | Tested vehicle   | : | ☆R68HM6000PA000001☆   |
| <b>2.</b> | <b>Facility and Equipment Checks</b>   | : |   |
| 2.1       | Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Conform   |
| 2.2.      | All instruments are equipped with<br>identification label  | : | Yes   |
| 2.3.      | Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Yes   |

| Equipment        | Serial / Certificate No.    | Calibration due |
|------------------|-----------------------------|-----------------|
| Electronic Scale | 030843791/37XJ23051051-0018 | 09.05.2024      |
| Electronic Scale | 030843792/37XJ23051051-0019 | 09.05.2024      |
| Tape             | 665702/37XJ23051051-0008    | 09.05.2024      |
| Tape             | 665703/37XJ23051051-0009    | 09.05.2024      |
| Manometer        | PHB-318/37XJ23051051-0010   | 09.05.2024      |



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| MASSES                       | Measured<br>in kg | Declared<br>in kg | Limit | Comply<br>(Yes / No) |
|------------------------------|-------------------|-------------------|-------|----------------------|
| In running order             | 88.76             | 92                | 5%    | Comply               |
| Actual Mass                  | 178.28            | 182               | 5%    | Comply               |
| Technically permissible mass | --                | 257               | --    | Comply               |
| Maximum payload              | --                | 75                | --    | Comply               |

| Dimension          | Measured<br>(mm) | Declared<br>(mm) | Limit<br>(mm)                      | % between the<br>declared and<br>tested<br>(< 3 %) | Comply<br>(Yes / No) |
|--------------------|------------------|------------------|------------------------------------|--|----------------------|
| Length             | 1950             | 1950             | 4000                               | < 3 %  | Yes                  |
| Width              | 840              | 840              | 2000                               | < 3 %  | Yes                  |
| Height             | 1090             | 1090             | 2500                               | < 3 %  | Yes                  |
| Wheelbase          | 1320             | 1320             | --                                 | < 3 %  | Yes                  |
| Ground clearance   | --               | --               | ≥ 310 (L3e-AxE)<br>≥ 280 (L3e-AxT) | < 3 %  | --                   |
| Length loading bed | --               | --               | N/A                                | N/A  | --                   |
| Width loading bed  | --               | --               | N/A                                | N/A  | --                   |

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**APPENDIX 3 – C12**

**Passenger handholds and footrests**

|   |   |   |
|---|---|---|
| <b>0. Main Requirements</b>   | : |   |
| 0.1. Requirements according to  | : | Reg. (EU) 44/2014 Annex XIII<br>Including amendment (EU) 2018/295   |
| <b>1. Witness details</b>   | : |   |
| 1.1. Witness  | : | Will Xu   |
| 1.2. Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
| 1.3. Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4. Worst Case Rationale   | : | Footrests: Option 1 and option 2 tested   |
| 1.5. Tested vehicle   | : | ☆R68HM6000PA000001☆<br>☆R68HM6010PA000001☆  |
| <b>2. Facility and Equipment Checks</b>   | : |   |
| 2.1. Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Conform   |
| 2.2. All instruments are equipped with<br>identification label  | : | Yes   |
| 2.3. Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Yes   |

| Equipment                            | Serial / Certificate No. | Calibration due |
|--------------------------------------|--------------------------|-----------------|
| Column type electronic tension meter | 180811/37XJ23051051-0015 | 09.05.2024      |

|  |   |
|--|---|
| <b>3. Passenger handholds and footrests Specification:</b> |   |
| 3.1. Type and number of driver footrest                    | : Footrest on each side. In it's open mode. |
| 3.2. Type and number of passenger handhold                 | : Passenger handhold on rear of vehicle.    |
| 3.3. Type and number of passenger footrest                 | : Footrest on each side. In it's open mode. |

|   | PASS                                | FAIL                     | N/A                                 |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1.2. For vehicles designed to carry one or more passengers but not equipped with safety belts for those passengers, the seating positions in question are fitted with a passenger handhold system consisting of either a strap, or one or two hand-grip bars. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.2.1. Strap is easily used by the passenger.   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Strap withstood a vertical traction force of 2,000 N (load).  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Pressure (maximum 2 Mpa) (Force/area)   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.2.2. Hand-grip is close to the saddle and symmetrical to the median longitudinal plane of the vehicle.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |



**CETOC TS**

CETOC Technical Service srl  
Via della Bufalotta, 374,  
00139 Roma

Inspection Report Nr.: CN-118-2-134-WHO23-07035-IR  
Manufacturer: ZHEJIANG YIXING INDUSTRY AND TRADE  
LIMITED  
Type: HM-6

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|  | PASS                                | FAIL                     | N/A                                 |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Hand-grip withstood a vertical traction force of 2000 N (load). Measured: 2027.5N  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Pressure (maximum 2 Mpa).  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.2.3. If two hand-grips are used, they are fitted one on each side in a symmetrical manner.   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Hand-grip withstood a vertical traction force of 1,000 N.<br>Pressure: Maximum 1 Mpa each  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.2.4. Design features of the vehicle, which could be confused with the designated passenger handhold system, are not permitted, unless they also meet the requirements of points 1.2.1 to 1.2.3.  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.3. All seating positions of the vehicle are fitted either with designated footrests, or a floor or floor boards on which both of the rider's, driver's, or passenger's feet can rest.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.3.1. Vehicle's floor, each designated floor board and each designated footrest are capable of withstanding, without any resulting permanent deformation that is harmful to its function, a vertical compression force of 1,700 N, applied statically to any point on the floor or floor board, or 15 mm from the end of the footrest, at a maximum pressure of 2.0 MPa.              | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.3.2. Space provided by each designated footrest, including the space on the floor or floor board, is sufficient for a foot $\geq 300$ mm long and $\geq 110$ mm wide to be placed safely without hampering the vehicle operator's feet. Footrests are located so that no direct contact between the foot/leg and rotating parts (e.g. tyres) of the vehicle is possible when in use. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.3.3. Design features of the vehicle, which could be confused with the designated footrests, floor boards or vehicle floor are not permitted, unless they also meet the requirements of points 1.3.1 to 1.3.2.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.3.4. Pedals enabling the vehicle to be propelled by the rider's muscular leg power are deemed to meet the requirements of points 1.3 to 1.3.3  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



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LIMITED  
Type: HM-6

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### APPENDIX 3 – C13 Registration plate space

|           |  |   |   |
|-----------|--|---|---|
| <b>0.</b> | <b>Main Requirements</b>   | : |   |
| 0.1.      | Requirements according to  | : | Reg. (EU) 44/2014 Annex XIV<br>Including amendment (EU) 2018/295  |
| <b>1.</b> | <b>Witness details</b>   | : |   |
| 1.1.      | Witness  | : | Will Xu   |
| 1.2.      | Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
| 1.3.      | Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4.      | Worst Case Rationale   | : | Option 1 and option 2 tested.   |
| 1.5.      | Tested vehicle   | : | ☆R68HM6000PA000001☆<br>☆R68HM6010PA000001☆  |
| <b>2.</b> | <b>Facility and Equipment Checks</b>   | : |   |
| 2.1.      | Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Conform   |
| 2.2.      | All instruments are equipped with<br>identification label  | : | Yes   |
| 2.3.      | Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Yes   |

| Equipment          | Serial / Certificate No. | Calibration due |
|--------------------|--------------------------|-----------------|
| Tape               | 665702/37XJ23051051-0008 | 09.05.2024      |
| Tape               | 665703/37XJ23051051-0009 | 09.05.2024      |
| Digital Goniometer | 744539/37XJ23051051-0004 | 09.05.2024      |

|        |   | PASS                                | FAIL                     | N/A                                 |
|--------|---|-------------------------------------|--------------------------|-------------------------------------|
| 1.2.   | Vehicles are equipped with a space for mounting and fixing rear registration plates.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.3.   | Vehicles of categories L6e and L7e are, in addition, equipped with a space for mounting and fixing front registration plates. | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.4.1. | Space for mounting comprises of a rectangular area with the following minimum dimensions:                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|        | For vehicles of categories L1e, L2e and L6e:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|        | - Width: 100 mm; Height: 175 mm*  |                                     |                          |                                     |
|        | - Width: 145 mm; Height: 125 mm*  |                                     |                          |                                     |
|        | *Strikethrough, as appropriate.   |                                     |                          |                                     |
|        | For vehicles of categories L3e, L4e, L5e and L7e:   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|        | —Width: 280 mm; Height: 200 mm  |                                     |                          |                                     |

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Inspection Report Nr.: CN-118-2-134-WHO23-07035-IR  
Manufacturer: ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED  
Type: HM-6

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PASS FAIL N/A

**Mounting and Fixing of a Rear Registration Plate on Vehicles of Categories L1e, L2e, L3e, L4e and L5e**

|            |   |                                     |                          |                          |
|------------|---|-------------------------------------|--------------------------|--------------------------|
| 1.5.1.1.1. | Space for mounting a registration plate at the rear of the vehicle is such that the plate can be positioned entirely within the two parallel longitudinal vertical planes passing through the outer extremities of the vehicle, not taking into account any rearview mirrors. The space itself does not form the widest point of the vehicle.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.5.1.2.   | Plate is perpendicular to the longitudinal median plane of the vehicle.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.5.1.3.1. | Plate may be inclined to the vertical at $\geq -15^\circ$ and $\leq 30^\circ$ . 15.0° facing upward   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.5.1.4.1. | Lower edge of the plate is $\geq 0.20$ m above the ground or not less than the radius of any rear wheel above the ground if that is less than 0.20 m. 0.356m/0.310m   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.5.1.4.2. | Height of the upper edge of the plate from the ground does not exceed 1.50 m. 0.477m/0.477m   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.5.1.5.1. | Plate is visible in the whole space within the following four planes:<br>- Two vertical planes touching the two lateral edges of the plate and forming an angle measured outwards to the left and to the right of the plate of 30° to the longitudinal plane, parallel to the longitudinal median plane of the vehicle, passing through the centre of the plate;<br>- Plane touching the upper edge of the plate and forming an angle measured upwards of 15° to the horizontal;<br>- Horizontal plane through the lower edge of the plate. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.5.1.5.2. | No structural element, even when fully transparent, is located in the space described above.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**1.6. Mounting and fixing of front and rear registration plates on vehicles of categories L6e and L7e**

|           |  |                          |                          |                                     |
|-----------|--|--------------------------|--------------------------|-------------------------------------|
| 1.6.1     | The space for mounting a front or rear registration plate shall comprise a flat or virtually flat rectangular surface. A "virtually flat surface" means a surface of solid material, which may also consist of patterned mesh or grille, with a radius of curvature of at least 5000mm   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.6.2.    | The surface to be covered by a front or rear registration plate may have holes or gaps; however, these shall be no more than 40mm wide without having to take into account their length  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.6.3.    | The surface to be covered by a front or rear registration plate may have a protrusion, provided that these do not project more than 5,0 mm from the nominal surface. Patches of very soft materials, such as foam or felt to stop the registration plate vibrating, shall not be taken into account.   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.6.4.1.1 | The space for mounting a registration plate at the front of the vehicle shall be such that the plate can be positioned entirely within the two parallel longitudinal vertical planes passing through the outer extremities of the vehicle, not taking into account any rear-view mirrors. The space itself shall not form the widest point of the vehicle. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.6.4.1.2 | The space for mounting a registration plate at the rear of the vehicle shall be such that the plate can be positioned entirely within the two parallel longitudinal vertical planes passing through the outer extremities of the vehicle, not taking into account any rear-view mirrors. The space itself shall not form the widest point of the vehicle.  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



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00139 Roma

Inspection Report Nr.: CN-118-2-134-WHO23-07035-IR  
Manufacturer: ZHEJIANG YIXING INDUSTRY AND TRADE  
LIMITED  
Type: HM-6

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PASS FAIL N/A

|            |  |                          |                          |                                     |
|------------|--|--------------------------|--------------------------|-------------------------------------|
| 1.6.4.1.3  | Front and rear registration plates shall be perpendicular to the longitudinal median plane of the vehicle  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.6.4.2.1  | The plate may be inclined to the vertical at not less than – 15° and not more than 30°.  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.6.4.3.1  | The lower edge of the plate shall not be less than 0,20 m above the ground or less than the radius of any front wheel above the ground if that is less than 0,20 m   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.6.4.3.2  | The height of the upper edge of the plate from the ground surface shall not exceed 1,50 m.   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.6.4.4.1  | Front and rear plates shall be visible in the whole space within the following four planes:<br>- the two vertical planes touching the two lateral edges of the plate and forming an angle measured outwards to the left and to the right of the plate of 30° to the longitudinal median plane of the vehicle,<br>- the plane touching the upper edge of the plate and forming an angle measured upwards of 15° to the horizontal,<br>- the horizontal plane through the lower edge of the plate. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.6.4.4.2. | No structural element, even when fully transparent, shall be located within the space described above.   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.6.4.5    | The gap between the edges of a mounted and fixed registration plate and the actual surface of the plate space shall not exceed 5,0 mm along the complete outline of the plate.   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1.6.4.5.1  | This gap may be exceeded if measured at a hole or gap in the surface of patterned mesh or between parallel bars in a surface of a grille.  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Other Requirements**

|        |  |                                     |                          |                                     |
|--------|--|-------------------------------------|--------------------------|-------------------------------------|
| 1.7.1. | Presence of a registration plate may not form the basis or part of the basis for attaching, mounting, or clipping any other vehicle part, component or device onto it (e.g. lighting device supports may not be fixed onto a registration plate).  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.7.2. | No vehicle part, component or device becomes loosened or detached as a result of removal of a registration plate.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.7.3. | When a registration plate is fixed, its visibility is not reduced under normal conditions of use due, in particular, to vibrations and dynamic forces, such as driving wind forces.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.7.4. | It is not permitted to provide a registration plate mounting location that can easily pivot up and/or down beyond the angles laid down in paragraphs 1.5.1.3.1 and 1.6.4.2.1, in relation to the vehicle structure in normal driving conditions (i.e. with doors or access panels closed). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 1.7.5. | If the vehicle has the tendency to lean, a mounted registration plate of the applicable maximum dimensions, which is not located in the longitudinal median plane of the vehicle, is not the limiting factor of the maximum lean angle.  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



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LIMITED  
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**APPENDIX 3 – C14**

**Access to repair and maintenance information**

- 0. Main Requirements** :
- 0.1. Requirements according to : Reg. (EU) 44/2014 Annex XV Including amendment (EU) 2018/295
- 1. Witness details** :
- 1.1. Witness : Will Xu
- 1.2. Location of Test : Zhejiang Labs Vehicle Testing Co., Ltd.  
No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang Street, Yuhang District, Hangzhou, Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA
- 1.3. Date of Test : 2023/05/26 to 2023/07/18
- 1.4. Worst Case Rationale : Both variants checked
- 1.5. Tested vehicle : ☆R68HM6000PA000001☆  
☆R68HM6010PA000001☆
- 2. Facility and Equipment Checks** :
- 2.1. Calibration certificates checked and valid, recorded in the following table : Not applicable
- 2.2. All instruments are equipped with identification label : Not applicable
- 2.3. Calibration certificates are complete of calibration-chain with detailed information regarding primary used. : Not applicable

| Equipment | Serial / Certificate No. | Calibration due |
|-----------|--------------------------|-----------------|
| --        | --                       | --              |

- 3. Test results:**
- 3.1. The manufacturers certificate on access to vehicle OBD stage I and vehicle repair and maintenance information : The manufacturers certificate providing proof of compliance to the type-approval authority on access to vehicle on-board diagnostic (OBD) systems and to vehicle repair and maintenance information as referred to in Article 57(8) of Regulation (EU) No 168/2013 and set out in Annex III to Regulation (EU) No 901/2014 is provided
- 3.2. Access to vehicle OBD and vehicle repair and maintenance information (website) : <http://www.zjshansu.com/>
- 3.2.1. Date from which it is available: : 6 months from the date of type approval
- 3.2.2. Terms and conditions of access : according to point 3 of Annex XV to this Regulation
- 3.2.3. Format of vehicle repair and maintenance information accessible through website: : according to Appendix 1 of Annex XV to this Regulation
- 3.3. Service parts, diagnostic tools and test equipment : The manufacturer makes the necessary information in the context of Article 57 (6) of Regulation (EU) No 168/2013 available to interested parties on the basis of individual arrangements to which the principle of Article 59 of Regulation (EU) No 168/2013 apply and to provide contact details on its website.
- 3.4. Multi-stage type approval : Not applicable
- 3.5. Small volume manufacturers : Not applicable



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LIMITED  
Type: HM-6

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### APPENDIX 3 – C15

#### Stands

|   |   |   |
|---|---|---|
| <b>0. Main Requirements</b>   | : |   |
| 0.1. Requirements according to  | : | Reg. (EU) 44/2014 Annex XVI<br>Including amendment (EU) 2018/295  |
| <b>1. Witness details</b>   | : |   |
| 1.1. Witness  | : | Will Xu   |
| 1.2. Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
| 1.3. Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4. Worst Case Rationale   | : | Variant 00 tested to cover variant 01   |
| 1.5. Tested vehicle   | : | ☆R68HM6000PA000001☆   |
| <b>2. Facility and Equipment Checks</b>   | : |   |
| 2.1. Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Conform   |
| 2.2. All instruments are equipped with<br>identification label  | : | Yes   |
| 2.3. Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Yes   |

| Equipment          | Serial / Certificate No. | Calibration due |
|--------------------|--------------------------|-----------------|
| Digital Goniometer | 744539/37XJ23051051-0004 | 09.05.2024      |

### 3. Test results:

|                    |   |
|--------------------|---|
| 3.1. Type of Stand | Prop stand / <del>Centre stand</del> / Prop & <del>Centre stand</del> |
|--------------------|---|

| Stand        | Direction        | MOPED Requirement (ECE) | Motorcycle Requirement (ECE) | Test Angle Achieved |
|--------------|------------------|-------------------------|------------------------------|---------------------|
| Prop stand   | Upstream         | 6 %                     | 8 %                          | 6.38%               |
| Prop stand   | Downstream       | 5 %                     | 6 %                          | 6.38%               |
| Prop stand   | Transverse left  | 5 %                     | 6 %                          | 6.38%               |
| Prop stand   | Transverse right | 5 %                     | 6 %                          | 6.38%               |
| Centre stand | Upstream         | <del>12 %</del>         | <del>14 %</del>              | --                  |
| Centre stand | Downstream       | 6 %                     | 8 %                          | --                  |
| Centre stand | Transverse left  | 6 %                     | 8 %                          | --                  |
| Centre stand | Transverse right | 6 %                     | 8 %                          | --                  |





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LIMITED  
Type: HM-6

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**APPENDIX 3 – D1**

**Statutory plate**

|           |  |   |   |
|-----------|--|---|---|
| <b>0.</b> | <b>Main Requirements</b>   | : |   |
| 0.1.      | Requirements according to  | : | Reg. (EU) 901/2014 Annex V<br>Including amendment (EU) 2020/239   |
| <b>1.</b> | <b>Witness details</b>   | : |   |
| 1.1.      | Witness  | : | Will Xu   |
| 1.2.      | Location of Test   | : | Zhejiang Labs Vehicle Testing Co., Ltd.<br>No.5 Shengyi Road, Yiqiao Industrial Zone, Yuhang<br>Street, Yuhang District, Hangzhou, Zhejiang Province,<br>PEOPLE'S REPUBLIC OF CHINA |
| 1.3.      | Date of Test   | : | 2023/05/26 to 2023/07/18  |
| 1.4.      | Worst Case Rationale   | : | Both variants tested  |
| 1.5.      | Tested vehicle   | : | ☆R68HM6000PA000001☆<br>☆R68HM6010PA000001☆  |
| <b>2.</b> | <b>Facility and Equipment Checks</b>   | : |   |
| 2.1.      | Calibration certificates checked and valid,<br>recorded in the following table                                     | : | Conform   |
| 2.2.      | All instruments are equipped with<br>identification label  | : | Yes   |
| 2.3.      | Calibration certificates are complete of<br>calibration-chain with detailed information<br>regarding primary used. | : | Yes   |

| Equipment | Serial / Certificate No. | Calibration due |
|-----------|--------------------------|-----------------|
| Tape      | 665702/37XJ23051051-0008 | 09.05.2024      |
| Tape      | 665703/37XJ23051051-0009 | 09.05.2024      |

|           |  |                      |
|-----------|--|----------------------|
| <b>3.</b> | <b>Test results:</b>   |                      |
| 3.1       | Positioning of statutory plate                                 | : R, x550, y50, z575 |
| 3.2       | Height of characters [mm]                                      | : 4 mm               |
| 3.3       | Material of statutory plate                                    | : Aluminium          |
| 3.4       | Requirements as per directive described in<br>this test record | : Yes                |

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**Remarks**

None

Note: CETOC TS apply measurement uncertainty to calibrated items but not test results.



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| 6               | STATEMENTS ON STRUCTURE INTEGRITY  |
| 7               | MANUFACTURER'S CERTIFICATES PROVIDING PROOF OF COMPLIANCE TO THE TYPE APPROVAL AUTHORITY ON ACCESS TO VEHICLE ON-BOARD DIAGNOSTICS (OBD) AND TO VEHICLE REPAIR AND MAINTENANCE INFORMATION |
| 8               | DECLARATION ON POWERTRAIN TAMPERING PREVENTION MEASURES (ANTI-TAMPERING) (IF APPLICABLE)   |

|  |   |                              |
|--|---|------------------------------|
| Type: HM-6   | ZHEJIANG YIXING INDUSTRY AND TRADE<br>LIMITED | Date: 15.06.2023<br>Ext.: 00 |
| EUROPEAN TYPE-APPROVAL OF TWO OR THREE-WHEEL VEHICLES AND QUADRICYCLES<br>(Information Folder No. HM-6-00) |   |                              |

Document revisions history

| Ext. No. /<br>Corr. No. | Extension reason  | Date       |
|-------------------------|-------------------|------------|
| 00                      | First application | 15.06.2023 |

|                          |   |                              |
|--------------------------|---|------------------------------|
| Type: HM-6<br>Appendix 1 | ZHEJIANG YIXING INDUSTRY AND TRADE<br>LIMITED | Date: 15.06.2023<br>Ext.: 00 |
|--------------------------|---|------------------------------|

**Information  
on the type-approval procedure chosen in accordance with Article 25(1) of  
Regulation (EU) No 168/2013  
-Information folder sheet-**

The undersigned: Wu qiang /general manager

e13\*168/2013\*01895\*00

Company name and address of manufacturer:

Société Nationale de Certification et d'Homologation

ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED  
ROOM 2103, 21/F HO KING COMMERCIAL CENTRE NO. 2-16 FA YUAN STREET MONG KOK,  
KOWLOON, HONG KONG

Name and address of the manufacturer's representative (if any):

MINIMOTOS SPORT, S.L.  
C/ LA MITJANA 7 - POLIGONO EL BOCH, CREVILLEN, ALICANTE, SPAIN

Hereby applies for type-approval procedure:

~~(a) step-by-step type-approval~~

(b) single-step type-approval

~~(c) mixed type-approval~~

Where procedures (a) or (c) are chosen, compliance with requirements as under (b) is declared for all systems, components and separate technical units.

Multi-stage type-approval chosen in accordance with Article 25(5) of Regulation (EU) No 168/2013:  
yes/no

Information on the vehicle(s) to be filled in, if application is for EU whole-vehicle type- approval:

- 0.1. Make (trade name of the manufacturer): SHANSU, Easycool, yuki, HIMOTO, aMoto, CITYCOCO, Rooley, Rooder, Strollwheel, HECHT MOTORS, ZMOTOS, MALCOR IBÉRICA, R RETELLI
- 0.2. Type: HM-6
  - 0.2.1. Variant(s): 00, 01
  - 0.2.2. Version(s): 00
  - 0.2.3. Commercial name(s) (if available): electric scooter, Electric motorcycle
- 0.3. Category, subcategory and sub-subcategory of vehicle: L1e-B

Information on the vehicle(s) to be filled in, if application is for type-approval of a system/ component/ separate technical unit: N.A.

- 0.7. Make (trade name of the manufacturer): N.A
- 0.8. Type: N.A
  - 0.8.1. Commercial name(s) (if available): N.A
- 1.6. Virtual and/or self-testing

|                          |   |                              |
|--------------------------|---|------------------------------|
| Type: HM-6<br>Appendix 1 | ZHEJIANG YIXING INDUSTRY AND TRADE<br>LIMITED | Date: 15.06.2023<br>Ext.: 00 |
|--------------------------|---|------------------------------|

1.6.1. Overview list with virtual and/or self-tested systems, components or separate technical units pursuant to point 6 of Annex III to Commission Delegated Regulation (EU) No 44/2014 below: N.A.

1.6.2. Detailed report on validation of virtual and/or self-testing added: ~~yes~~/no

Place: Hong Kong

Date: 15 June 2023



e13\*168/2013\*01895\*00  
Société Nationale de Certification et d'Homologation

Signature:

Name and position in the company : Wu qiang /general manager

|            |   |                              |
|------------|---|------------------------------|
| Type: HM-6 | ZHEJIANG YIXING INDUSTRY AND TRADE<br>LIMITED | Date: 15.06.2023<br>Ext.: 00 |
| Appendix 2 |   |                              |

|   |
|---|
| Type-approval numbers and Test Reports overview |
|---|

| Item No. | subject   | Type-approval number or test report number | Date of issue of the type-approval or of its extension or of the test report | Member State or contracting party issuing the type-approval or technical service issuing the test report | Reference to the regulatory act and its latest amendment | Variant(s)/ version(s) |
|----------|---|--|--|--|--|------------------------|
| A1       | Environmental test procedures related to exhaust emissions, evaporative emissions, greenhouse gas emissions, fuel consumption and reference fuels | CN-118-2-134-WHO23-07035-IR                | 08.08.2023   | CETOC TS   | (EU) No 134/2014 Annex II to VIII *(EU) 2018/295         | 00/00,<br>01/00,       |
| A2       | Maximum design vehicle speed, maximum torque, maximum continuous total engine power of propulsion   | CN-118-2-134-WHO23-07035-IR                | 08.08.2023   | CETOC TS   | (EU) No 134/2014 Annex X* (EU) 2018/295                  | 00/00,<br>01/00        |
| A3       | Test procedures related to sound  | N.A.                                       | N.A.   | N.A.   | N.A.   | N.A.                   |
| B1       | Audible warning devices Installation  | CN-118-2-134-WHO23-07035-IR                | 08.08.2023   | CETOC TS   | (EU) No 3/2014 Annex II* (EU) 2016/1824                  | 00/00,<br>01/00        |
|          | Audible warning devices   | E32-28R-00 0002                            | 15.04.2015   | Latvia   | UNECE R28 Series 00 Supplement 3                         | 00/00,<br>01/00        |
| B2       | Braking, including anti-lock and combined brake systems   | CN-118-2-134-WHO23-07035-IR                | 08.08.2023   | CETOC TS   | (EU) No 3/2014 Annex III* (EU) 2016/1824                 | 00/00,<br>01/00        |
| B3       | Electrical safety   | CN-118-2-134-WHO23-07035-IR                | 08.08.2023   | CETOC TS   | (EU) No 3/2014 Annex IV* (EU) 2016/1824                  | 00/00,<br>01/00        |
| B4       | Manufacturer declaration requirements regarding endurance testing of functional safety-critical systems, parts and equipment                      | CN-118-2-134-WHO23-07035-IR                | 08.08.2023   | CETOC TS   | (EU) No 3/2014 Annex V* (EU) 2016/1824                   | 00/00,<br>01/00        |
| B5       | Front and rear protective structures  | N.A.                                       | N.A.   | N.A.   | N.A.   | N.A.                   |
| B6       | Glazing, windscreen wipers and washers, and defrosting and demisting systems  | N.A.                                       | N.A.   | N.A.   | N.A.   | N.A.                   |
| B7       | Driver-operated controls including identification of controls, tell-tales and indicators  | CN-118-2-134-WHO23-07035-IR                | 08.08.2023   | CETOC TS   | (EU) No 3/2014 Annex VIII* (EU) 2016/1824                | 00/00,<br>01/00        |

|                   |   |                             |                             |                |  |   |
|-------------------|---|-----------------------------|-----------------------------|----------------|--|---|
| B8                | Installation of lighting and light- signalling devices, including automatic switching of lighting | CN-118-2-134-WHO23-07035-IR | 08.08.2023                  | CETOC TS       | (EU) No 3/2014 Annex IX*<br>(EU) 2016/1824   | 00/00,<br>01/00                           |
|                   | Driving beam Headlamp<br>Passing beam Headlamp  | E57*149R00/03*0<br>112*00   | 10.01.2022                  | San Marino     | UNECE R149<br>Series 00<br>Supplement 03     | 00/00,<br>01/00                           |
|                   | Front position lamp   | E57*148R00/03*0<br>112*00   | 10.01.2022                  | San Marino     | UNECE R148<br>Series 00<br>Supplement 03     | 00/00,<br>01/00                           |
|                   | Front & rear direction indicator (option 1)   | E4*50R00/19*285<br>4*00     | 10.02.2018                  | Netherlands    | UNECE R50<br>Series 00<br>Supplement 19      | 00/00,<br>01/00                           |
|                   | Front & rear direction indicator (option 2)   | E4*50R01/00*310<br>7*00     | 02.09.2020                  | Netherlands    | UNECE R50<br>Series 01<br>Supplement 00      | 00/00,<br>01/00                           |
|                   | Front & rear direction indicator (option 3)   | E57*50R01/00*01<br>51       | 16.09.2020                  | San Marino     | UNECE R50<br>Series 01<br>Supplement 00      | 00/00,<br>01/00                           |
|                   | Front & rear direction indicator (option4)  | E57*148R00/03*0<br>369      | 23.11.2022                  | San Marino     | UNECE R148<br>Series 00<br>Supplement 03     | 00/00,<br>01/00                           |
|                   | Rear position lamp<br>Stop lamp (option 1)  | E4*50R00/19*262<br>77*00    | 10.02.2018                  | Netherlands    | UNECE R50<br>Series 00<br>Supplement 19      | 00/00,<br>01/00                           |
|                   | Rear position lamp<br>Stop lamp (option 2)  | E4*50R01/00*310<br>8*00     | 02.09.2020                  | Netherlands    | UNECE R50<br>Series 01<br>Supplement 00      | 00/00,<br>01/00                           |
|                   | Rear registration plate lamp (option 1)   | E4*50R00/19*262<br>77*00    | 10.02.2018                  | Netherlands    | UNECE R50<br>Series 00<br>Supplement 19      | 00/00,<br>01/00                           |
|                   | Rear registration plate lamp (option 2)   | E4*50R01/00*310<br>8*00     | 02.09.2020                  | Netherlands    | UNECE R50<br>Series 01<br>Supplement 00      | 00/00,<br>01/00                           |
|                   | Rear retro-reflector  | E4*3R02/17*3713<br>*01      | 10.12.2019                  | Netherlands    | UNECE R3<br>Series 02<br>Supplement 17       | 00/00,<br>01/00                           |
|                   | Side retro-reflector  | E4-3R-023298<br>Ext.03      | 19.04.2022                  | Netherlands    | UNECE R3<br>Series 02<br>Supplement 17       | 00/00,<br>01/00                           |
|                   | B9  | Rearward visibility         | CN-118-2-134-WHO23-07035-IR | 08.08.2023     | CETOC TS                                     | (EU) No 3/2014 Annex X*<br>(EU) 2016/1824 |
| Rear-view mirrors |   | E11-81R-002066              | 23.09.2013                  | United Kingdom | UNECE R81<br>Series 00<br>Supplement 02      | 00/00,<br>01/00                           |
| B10               | Rollover protective structure (ROPS)  | N.A.                        | N.A.                        | N.A.           | N.A.   | N.A.                                      |
| B11               | Safety-belt anchorages and safety- belts  | N.A.                        | N.A.                        | N.A.           | N.A.   | N.A.                                      |
| B12               | Seating positions (saddles and seats)   | CN-118-2-134-WHO23-07035-IR | 08.08.2023                  | CETOC TS       | (EU) No 3/2014 Annex XIII*<br>(EU) 2016/1824 | 00/00,<br>01/00                           |

|     |  |                             |            |             |  |              |
|-----|--|-----------------------------|------------|-------------|--|--------------|
| B13 | Steer-ability, cornering properties and turn-ability                             | CN-118-2-134-WHO23-07035-IR | 08.08.2023 | CETOC TS    | (EU) No 3/2014 Annex XIV* (EU) 2016/1824   | 00/00, 01/00 |
| B14 | Installation of tyres  | CN-118-2-134-WHO23-07035-IR | 08.08.2023 | CETOC TS    | (EU) No 3/2014 Annex XV* (EU) 2016/1824    | 00/00, 01/00 |
|     | Tyres-Front  | E4*75R00/19*051 02*07       | 21.07.2022 | Netherlands | UNECE R75 Series 00 Supplement 19          | 00/00, 01/00 |
|     | Tyres- Rear  | E4*75R00/19*101 43*02       | 03.12.2021 | Netherlands | UNECE R75 Series 00 Supplement 19          | 00/00, 01/00 |
| B15 | Vehicle maximum speed limitation plate and its location on the vehicle           | N.A.                        | N.A.       | N.A.        | N.A.                                       | N.A.         |
| B16 | Vehicle occupant protection, including interior fittings and vehicle doors       | N.A.                        | N.A.       | N.A.        | N.A.                                       | N.A.         |
| B17 | Maximum continuous total power and/or maximum vehicle speed limitation by design | CN-118-2-134-WHO23-07035-IR | 08.08.2023 | CETOC TS    | (EU) No 3/2014 Annex XVIII* (EU) 2016/1824 | 00/00, 01/00 |
| B18 | Vehicle structure integrity  | CN-118-2-134-WHO23-07035-IR | 08.08.2023 | CETOC TS    | (EU) No 3/2014 Annex XIX* (EU) 2016/1824   | 00/00, 01/00 |
| C1  | Anti-tampering measures  | CN-118-2-134-WHO23-07035-IR | 08.08.2023 | CETOC TS    | (EU) No 44/2014 Annex II* (EU) 2018/295    | 00/00, 01/00 |
| C2  | Arrangements for type-approval procedures  | CN-118-2-134-WHO23-07035-IR | 08.08.2023 | CETOC TS    | (EU) No 44/2014 Annex III* (EU) 2018/295   | 00/00, 01/00 |
| C3  | Conformity of production requirement   | CN-118-2-134-WHO23-07035-IR | 08.08.2023 | CETOC TS    | (EU) No 44/2014 Annex IV* (EU) 2018/295    | 00/00, 01/00 |
| C4  | Coupling devices and attachments   | N.A.                        | N.A.       | N.A.        | N.A.                                       | N.A.         |
| C5  | Devices to prevent unauthorised use  | CN-118-2-134-WHO23-07035-IR | 08.08.2023 | CETOC TS    | (EU) No 44/2014 Annex VI* (EU) 2018/295    | 00/00, 01/00 |
| C6  | Electromagnetic compatibility (EMC)  | CN-118-2-134-WHO23-07035-IR | 08.08.2023 | CETOC TS    | (EU) No 44/2014 Annex VII* (EU) 2018/295   | 00/00, 01/00 |
| C7  | External projections   | CN-118-2-134-WHO23-07035-IR | 08.08.2023 | CETOC TS    | (EU) No 44/2014 Annex VIII* (EU) 2018/295  | 00/00, 01/00 |
| C8  | Fuel storage   | N.A.                        | N.A.       | N.A.        | N.A.                                       | N.A.         |
| C9  | Load platforms   | N.A.                        | N.A.       | N.A.        | N.A.                                       | N.A.         |

|     |                                       |                                 |            |          |  |                 |
|-----|---------------------------------------|---------------------------------|------------|----------|--|-----------------|
| C10 | Masses and dimensions                 | CN-118-2-134-<br>WHO23-07035-IR | 08.08.2023 |          | (EU) No<br>44/2014<br>Annex XI*<br>(EU) 2018/295   | 00/00,<br>01/00 |
| C11 | On-board diagnostics                  | N.A.                            | N.A.       | N.A.     | N.A.   | N.A.            |
| C12 | Passenger handholds and<br>footrests  | CN-118-2-134-<br>WHO23-07035-IR | 08.08.2023 | CETOC TS | (EU) No<br>44/2014<br>Annex XIII*<br>(EU) 2018/295 | 00/00,<br>01/00 |
| C13 | Registration plate space              | CN-118-2-134-<br>WHO23-07035-IR | 08.08.2023 | CETOC TS | (EU) No<br>44/2014<br>Annex XIV*<br>(EU) 2018/295  | 00/00,<br>01/00 |
| C14 | Repair and maintenance<br>information | CN-118-2-134-<br>WHO23-07035-IR | 08.08.2023 | CETOC TS | (EU) No<br>44/2014<br>Annex XV*<br>(EU) 2018/295   | 00/00,<br>01/00 |
| C15 | Stands                                | CN-118-2-134-<br>WHO23-07035-IR | 08.08.2023 | CETOC TS | (EU) No<br>44/2014<br>Annex XVI*<br>(EU) 2018/295  | 00/00,<br>01/00 |

Remark: In respect of the applicable subjects for the vehicle set out in Annex II to Regulation (EU) No 168/2013.

Place: Hong Kong

Date: 15 June 2023

e13\*168/2013\*01895\*00

Société Nationale de Certification et d'Homologation

Signature:



Name and position in the company: Wu qiang /general manager



Variants and Versions matrix

e13\*168/2013\*01895\*00  
Société Nationale de Certification et d'Homologation

| Item No.       | Variant | Version | Description  |
|----------------|---------|---------|--|
| See Appendix 4 | 00      | 00      | Electric motor type "HM6SS?????????",<br>and electric motor is inside the rear wheel.<br>Maximum continuous-rated power: 3.0 kW at 340<br>min <sup>-1</sup> .<br>Max. speed 45 km/h, front disc brake, rear disc<br>brake.<br>Controller type: SS12-60V-YTC        |
|                | 01      | 00      | Electric motor type "HM6SS?????????",<br>and electric motor is inside the rear wheel.<br>Maximum continuous-rated power: 3.0 kW at 200<br>min <sup>-1</sup> .<br>Max. speed 25 km/h, front disc brake, rear disc<br>brake.<br>Controller type: SS12-60V-YTC 25KM/H |

|            |  |                  |
|------------|--|------------------|
| Type: HM-6 | ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED | Date: 15.06.2023 |
| Appendix 4 |  | Ext.: 00         |

## INFORMATION DOCUMENT AND DRAWINGS

### 0. GENERAL INFORMATION

#### A. GENERAL INFORMATION CONCERNING VEHICLES

0.1. Make (trade name of manufacturer): SHANSU, Easycool, yuki, HIMOTO, aMoto, CITYCOCO, Rooley, Rooder, Strollwheel, HECHT MOTORS, ZMOTOS, MALCOR IBÉRICA, R RETELLI

0.2. Type: HM-6 e13\*168/2013\*01895\*00

0.2.1. Variants: 00, 01 Société Nationale de Certification et d'Homologation

0.2.2. Versions: 00

0.2.3. Commercial name(s) (if available): electric scooter, Electric motorcycle

0.3. Category, subcategory and sub-subcategory of vehicle: L1e-B

0.4. Company name and address of manufacturer:

ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED  
ROOM 2103, 21/F HO KING COMMERCIAL CENTRE NO. 2-16 FA YUAN STREET  
MONG KOK, KOWLOON, HONG KONG

0.4.1. Name(s) and address(es) of assembly plants:

ZHEJIANG YIXING INDUSTRY & TRADE CO., LTD  
Gangtou Industrial Functional Area, Lutan Town, Wuyi County, Jinhua City, Zhejiang  
Province, P.R.China

0.4.2. Name and address of manufacturer's authorised representative, if any:

MINIMOTOS SPORT, S.L.  
C/ LA MITJANA 7 - POLIGONO EL BOCH, CREVILLEN, ALICANTE, SPAIN

0.5. Manufacturer's statutory plate(s)

0.5.1. Location of the manufacturer's statutory plate:

R, x 550, y 50, z 575, See the drawing of HM-6-01, HM-6-01-1

0.5.2. Method of attachment:

Riveted

0.5.3. Photographs and/or drawings of the statutory plate (completed example with dimensions):

See the drawing of HM-6-01, HM-6-01-1

0.6. Location of the vehicle identification number:

|            |   |                  |
|------------|---|------------------|
| Type: HM-6 | ZHEJIANG YIXING INDUSTRY AND TRADE<br>LIMITED | Date: 15.06.2023 |
| Appendix 4 |   | Ext.: 00         |

R, x 310, y 30, z 840, See the drawing of HM-6-02

0.6.1. Photographs and/or drawings of the locations of the vehicle identification number (completed example with dimensions):

See the drawing of HM-6-02

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Société Nationale de Certification et d'Homologation

0.6.1.1. The serial number of the type begins with:

Variant 00/Version 00: ☆R68HM600?????????☆

Variant 01/Version 00: ☆R68HM601?????????☆

B. GENERAL INFORMATION CONCERNING SYSTEMS, COMPONENTS OR SEPARATE TECHNICAL UNITS  
N.A.

C. GENERAL INFORMATION REGARDING CONFORMITY OF PRODUCTION AND ACCESS TO REPAIR AND MAINTENANCE INFORMATION

0.12. Conformity of production

0.12.1. Description of overall quality-assurance management systems: ISO 9001:2015

0.13. Access to repair and maintenance information

0.13.1. Address of principal website for access to vehicle repair and maintenance information:

<http://www.zjshansu.com/>

0.13.2. In the case of multi-stage type-approval, address of principal website for access to vehicle repair and maintenance information from manufacturer(s) at previous stage(s): N.A.

|            |   |                  |
|------------|---|------------------|
| Type: HM-6 | ZHEJIANG YIXING INDUSTRY AND TRADE<br>LIMITED | Date: 15.06.2023 |
| Appendix 4 |   | Ext.: 00         |

## 1. GENERAL CONSTRUCTION CHARACTERISTICS

### 1.1. Photographs and/or drawings of a representative vehicle:

See the drawing of HM-6-03 [e13\\*168/2013\\*01895\\*00](#)  
[Société Nationale de Certification et d'Homologation](#)

### 1.2. Scale drawing of the whole vehicle:

See the drawing of HM-6-04

### 1.3. Number of axles and wheels: 2 axles /2 wheels

#### 1.3.1. Axles with twinned wheels: N.A.

#### 1.3.2. Powered axles: R (rear)

### 1.4. Chassis (if any) (overall drawing): See the drawing of HM-6-05

### 1.5. (L2e, L5e-B, L6e-B, L7e-A2, L7e-B2, L7e-C) Material used for the bodywork: N.A.

### 1.6. Position and arrangement of the propulsion(s): Rear wheel hub motor

### 1.7. (L4e, L5e-B, L6e-B, L7e-A2, L7e-B2, L7e-C) Hand of drive: left/right/centre: N.A.

#### 1.7.1. Vehicle is equipped to be driven in right/left-hand traffic and in countries that use metric/metric and imperial units:

Right and left-hand traffic; metric and imperial units.

### 1.8. Propulsion unit performance

#### 1.8.1. (L3e, L4e, L5e, L7e-A, L7e-B2) Declared maximum vehicle speed: N.A.

#### 1.8.2. (L1e, L2e, L6e, L7e-B1, L7e-C) Maximum design vehicle speed:

Variant 00/Version 00: 45km/h

Variant 01/Version 00: 25km/h

#### 1.8.3. Maximum net power combustion engine: N.A.

#### 1.8.4. Maximum net torque combustion engine: N.A.

#### 1.8.5. Maximum continuous-rated power electric motor (45/30 minutes power):

Variant 00/Version 00: 3.0 kW at 340 min<sup>-1</sup>

Variant 01/Version 00: 3.0 kW at 200 min<sup>-1</sup>

#### 1.8.6. Maximum continuous-rated torque electric motor:

Variant 00/Version 00: 84.3 Nm at 340 min<sup>-1</sup>

Variant 01/Version 00: 143.2 Nm at 200 min<sup>-1</sup>

#### 1.8.7. Maximum continuous total power for propulsion(s): N.A.

|            |   |                  |
|------------|---|------------------|
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1.8.8. Maximum continuous total torque for propulsion(s): N.A.

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1.8.9. Maximum peak power for propulsion(s): [Société Nationale de Certification et d'Homologation](#)

Variant 00/Version 00: 3.2 kW at 332 min<sup>-1</sup>

Variant 01/Version 00: 3.0 kW at 210 min<sup>-1</sup>

2.1. Range of vehicle mass (overall)

2.1.1. Mass in running order:

92 kg

2.1.1.1. Distribution of mass in running order between the axles:

Front axle: 39 kg

Rear axle: 53 kg

2.1.2. Actual mass:

182 kg

2.1.2.1. Distribution of actual mass between the axles:

Front axle: 70 kg

Rear axle: 112 kg

2.1.3. Technically permissible maximum laden mass: 257 kg

2.1.3.1. Technically permissible maximum mass on front axle: 87 kg

2.1.3.2. Technically permissible maximum mass on rear axle: 170 kg

2.1.3.3. (L4e) Technically permissible maximum mass on sidecar axle: N.A.

2.1.4. Maximum hill-starting ability at the maximum technically permissible mass declared by the manufacturer:

15° slope

2.1.5. Maximum pay mass declared by manufacturer: 75 kg.

2.1.6. Safe load carrying capacity of load platform declared by manufacturer: N.A.

2.1.7. Technically permissible maximum towable mass in case of: Braked: N.A., Unbraked: N.A.

2.1.7.1. Technically permissible maximum laden mass of the combination: N.A.

2.1.7.2. Technically permissible maximum mass at the coupling point: N.A.

2.1.8. Mass of the optional equipment: N.A.

2.1.9. Mass of the superstructure: N.A.

|            |   |                  |
|------------|---|------------------|
| Type: HM-6 | ZHEJIANG YIXING INDUSTRY AND TRADE<br>LIMITED | Date: 15.06.2023 |
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- 2.1.10. Mass of the propulsion battery: 15 kg
- 2.1.11. (L2e, L4e, L5e, L6e, L7e) Mass of the doors: N.A.
- 2.1.12. (L2e-U, L5e-B, L6e-BU, L7e-CU) Mass of the machines or equipment installed on the load platform area: N.A.
- 2.1.13. Mass of the gaseous fuel system as well as storage tanks for gaseous fuel: N.A.
- 2.1.14. Mass of the storage tanks to store compressed air: N.A.
- 2.2. Range of vehicle dimensions (overall)
  - 2.2.1. Length: See the drawing of HM-6-04
  - 2.2.2. Width: See the drawing of HM-6-04
  - 2.2.3. Height: See the drawing of HM-6-04
  - 2.2.4. Wheelbase: See the drawing of HM-6-04
    - 2.2.4.1. (L4e) Wheelbase sidecar: N.A.
  - 2.2.5. Track width
    - 2.2.5.1. (L1e — L7e if equipped with twinned wheels L2e, L4e, L5e, L6e, L7e)  
Track width front: N.A.
    - 2.2.5.2. (L1e — L7e if equipped with twinned wheels L2e, L4e, L5e, L6e, L7e)  
Track width rear: N.A.
    - 2.2.5.3. (L4e) Track width sidecar: N.A.
  - 2.2.6. (L7e-B) Front overhang: N.A.
  - 2.2.7. (L7e-B) Rear overhang: N.A.
  - 2.2.8. Load platform dimensions
    - 2.2.8.1. (L2e-U, L5e-B, L6e-BU, L7e-B2, L7e-CU) Length of the load platform: N.A.
    - 2.2.8.2. (L2e-U, L5e-B, L6e-BU, L7e-B2, L7e-CU) Width of load platform: N.A.
    - 2.2.8.3. (L2e-U, L5e-B, L6e-BU, L7e-B2, L7e-CU) Height of load platform: N.A.
  - 2.2.9. Centre of gravity
    - 2.2.9.1. (L2e-U, L5e-B, L6e-BU, L7e-B2, L7e-CU) Location of the centre of gravity forward of the rear axle Lcg: N.A.
    - 2.2.9.2. (L2e-U, L5e-B, L6e-BU, L7e-B2, L7e-CU) Location of the centre of gravity above the ground plane Hcg: N.A.

2.2.9.3. (L2e-U, L5e-B, L6e-BU, L7e-B2, L7e-CU) Location centre of gravity of loaded platform forward of the rear axle  
LcgLP: N.A.

2.2.10. Miscellaneous dimensions

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- 2.2.10.1. (L7e-B2) Approach angle: N.A.
- 2.2.10.2. (L7e-B2) Departure angle: N.A.
- 2.2.10.3. (L7e-B2) Ramp angle: N.A.
- 2.2.10.4. (L7e-B2) Ground clearance under the front axle: N.A.
- 2.2.10.5. (L7e-B2) Ground clearance under the rear axle: N.A.
- 2.2.10.6. (L3e-AxE (x=1, 2 or 3), L3e-AxT (x=1, 2 or 3), L7e-B) Ground clearance between the axles: N.A.
- 2.2.10.7. (L7e-B) Wheelbase to ground clearance ratio: N.A.
- 2.2.10.8. (L7e-B2) Static stability coefficient — Kst: N.A.
- 2.2.10.9. (L3e-AxE, L3e-AxT) Seat height: N.A.
- 2.2.10.10. (L3e-AxE, L3e-AxT) Ground clearance: N.A.

3. GENERAL POWERTRAIN CHARACTERISTICS

3.1. Manufacturer of the propulsion unit

3.1.1. Combustion engine: N.A.

3.1.2. Electric motor

3.1.2.1. Manufacturer:

Yongkang Changpao Industry and Trade Co., Ltd.

3.1.2.2. Electric motor code (as marked on the engine or other means of identification):

HM6SS??????????

3.1.3. Hybrid application: N.A.

3.2. Combustion engine: N.A.

3.3. Pure electric and hybrid electric propulsion and control

3.3.1. Electric vehicle configuration: pure electric/~~hybrid electric/manpower~~ — electric

3.3.2. Brief description and schematic drawing of pure and hybrid electric propulsions and its

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control systems:

See the drawing of HM-6-06

### 3.3.3. Electric propulsion motor

3.3.3.1. Number of electric motors for propulsion: 1

3.3.3.2. Type (winding, excitation): winding

3.3.3.3. Operating voltage: 60 V

3.3.3.4. 45/30 minutes power:

Variant 00/Version 00: 3.0 kW

Variant 01/Version 00: 3.0 kW

### 3.3.4. Propulsion batteries

3.3.4.1. Primary propulsion battery

3.3.4.1.1. Number of cells: 128

3.3.4.1.2. Mass: 15.0 kg

3.3.4.1.3. Capacity: 50 Ah

3.3.4.1.4. Voltage: 60 V

3.3.4.1.5. Position in the vehicle:

See the drawing of HM-6- 07

3.3.4.2. Secondary propulsion battery: N.A.

3.3.5. Hybrid electric vehicle: N.A.

### 3.3.6. Energy storage device

3.3.6.1. Description: (battery, capacitor, flywheel/generator)

3.3.6.2. Identification number: 18650

\*3.3.6.3. Kind of electrochemical couple: Lithium battery

3.3.6.4. Energy (for battery: voltage and capacity Ah in 2h, for capacitor: J,..., for flywheel/generator: J,...):

60 V, 50 Ah

3.3.6.5. Charger: ~~on-board/external/without~~

### 3.3.7. Electric motor (describe each type of electric motor separately)

3.3.7.1. Primary use: propulsion motor/generator



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- 3.3.7.2. When used as propulsion motor: single-motor
- 3.3.7.3. Working principle:  
Permanent magnet brushless DC motor
- 3.3.7.4. Direct current/alternating current/number of phases: Direct current / three phases
- 3.3.7.5. Separate excitation/series/compound: series
- 3.3.7.6. Synchronous/asynchronous: Synchronous
- 3.3.8. Electric motor control unit
  - 3.3.8.1. Identification number:  
See the drawing of HM-6- 08
- 3.3.9. Power controller
  - 3.3.9.1. Identification number: N.A
- 3.4. Other engines, electric motors or combinations  
(specific information concerning the parts of these motors)
  - 3.4.1. Cooling system (temperatures permitted by the manufacturer): N.A.
    - 3.4.1.1. Liquid cooling: N.A.
      - 3.4.1.1.1. Maximum temperature at outlet: N.A.
    - 3.4.1.2. Air cooling: N.A.
      - 3.4.1.2.1. Reference point: N.A.
      - 3.4.1.2.2. Maximum temperature at reference point: N.A.
  - 3.4.2. Lubrication system: N.A.
    - 3.4.2.1. Description of lubrication system: N.A.
    - 3.4.2.2. Location of oil reservoir (if any): N.A.
    - 3.4.2.3. Feed system (pump/injection into induction system/mixed with the fuel, etc.): N.A.
    - 3.4.2.4. Lubricant mixed with the fuel: N.A.
      - 3.4.2.4.1. Percentage: N.A.
    - 3.4.2.5. Oil cooler: ~~yes/no~~ N.A.
- 3.5. Drive-train control

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3.5.1. Brief description and schematic drawing of the vehicle drive-train and its control system (gear shift control, clutch control or any other element of drive-train):

See the drawing of HM-6-09

3.5.2. Clutch

3.5.2.1. Brief description and schematic drawing of the clutch and its control system:

N.A.

3.5.3. Transmission

3.5.3.1. Brief description and schematic drawing of gear shift system(s) and its control:

N.A.

3.5.3.2. Drawing of the transmission: N.A.

3.5.3.3. Type (~~mechanical, hydraulic, electric, manual/manual-automated/automatic/CVT~~ /other (indicate).): Wheel-hub motor

3.5.3.4. A brief description of the electrical/electronic components (if any): N.A.

3.5.3.5. Location relative to the engine: N.A.

3.5.3.6. Method of control: ~~by hand/foot~~

3.5.4. Gear ratios: N.A.

3.5.4.1. (L3e-AxE, L3e-AxT) Final drive ratio: N.A.

3.5.4.2. (L3e-AxE, L3e-AxT) Overall gear ratio in highest gear: N.A.

3.6. Safe-cornering device: N.A.

3.7. Suspension and control

3.7.1. Brief description and schematic drawing of suspension and its control system:

See the drawing of HM-6-10, HM-6-11

3.7.2. Drawing of the suspension arrangements:

See the drawing of HM-6-10, HM-6-11

3.7.3. Level adjustment: ~~yes/ no/ optional~~

3.7.4. Brief description of the electrical/electronic components: N.A.

3.7.5. Stabilisers: ~~yes/ no/ optional~~

3.7.6. Shock absorbers: ~~yes/ no/ optional~~

3.8. Passenger-compartment heating system and air-conditioning: N.A.

3.9. Cycles designed to pedal: N.A.

4. GENERAL INFORMATION ON ENVIRONMENTAL AND PROPULSION PERFORMANCE

4.0. General information on environmental and propulsion performance

4.0.1. Environmental step: Euro 5 [e13\\*168/2013\\*01895\\*00](#)  
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4.0.2. Fuel consumption (provide details for each reference fuel tested): N.A.

4.0.3. CO<sub>2</sub> emissions: N.A.

4.0.4. Energy consumption:  
 Variant 00/Version 00: 45 wh/km  
 Variant 01/Version 00: 39 wh/km

4.0.5. Electric range:  
 Variant 00/Version 00: 52 km  
 Variant 01/Version 00: 64 km

4.1. Tailpipe emission-control system: N.A.

4.2. Crankcase emission control system: N.A.

4.3. Evaporative emission control system: N.A.

4.4. Additional information on environmental and propulsion unit performance: N.A.

5. VEHICLE PROPULSION FAMILY

5.1. To define the vehicle propulsion family, the manufacturer shall submit the information required for classification criteria set out in point 3 of Annex XI to Commission Delegated Regulation (EU) No 134/2014, if not already provided in the information document: N.A.

6. INFORMATION ON FUNCTIONAL SAFETY

6.1. Audible warning devices

6.1.1. Summary description of device(s) used and their purpose:

| Make | Type    | Approval Number | Description                                       |
|------|---------|-----------------|---|
| LVEE | DL70-II | E32-28R-00 0002 | Electro-magnetic with resonator disc, single-tone |

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6.1.2. Drawing(s) showing the location of the audible warning device(s) in relation to the structure of the vehicle:

See the drawing of HM-6-12

6.1.3. Details of the method of attachment, including the part of the vehicle structure to which the audible warning device(s) is (are) attached:

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See the drawing of HM-6-12

6.1.4. Electrical/pneumatic circuit diagram: See the drawing of HM-6-13

6.1.4.1. Voltage: ~~AC~~/DC

6.1.4.2. Rated voltage pressure: 12 V.

6.1.5. Drawing of the mounting device: See the drawing of HM-6-12

6.2. Braking, including anti-lock and combined braking systems

6.2.1. Characteristics of the brakes, including details and drawings of the drums, discs, hoses, make and type of shoe/pad assemblies and/or linings, effective braking areas, radius of drums, shoes or discs, mass of drums, adjustment devices, relevant parts of the axle(s) and suspension, levers, pedals:

See the drawing of HM-6-14 HM-6-14-1, HM-6-14-2, HM-6-14-3.

6.2.2. Operating diagram, description and/or drawing of the braking system, including details and drawings of the transmission and controls as well as a brief description of the electrical and/or electronic components used in the braking system:

See the drawing of HM-6-14 HM-6-14-1, HM-6-14-2, HM-6-14-3.

6.2.2.1. Front, rear ~~and sidecar~~ brakes, disc and/or drum:

Front: disc

Rear: disc

6.2.2.2. Parking braking system: N.A.

6.2.2.3. Any additional braking system: N.A.

6.2.3. Vehicle is equipped to tow a trailer with no brake/overrun brake/electric/pneumatic/hydraulic service brakes: N.A.

6.2.4. Anti-lock/Combined braking system

6.2.4.1. Anti-lock braking system: ~~yes/no/optional~~

6.2.4.2. Combined braking system: ~~yes/ no/ optional~~

6.2.4.3. Anti-lock and combined braking system: ~~yes/no/ optional~~

6.2.4.4. Schematic drawing(s): N.A

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6.2.5. Hydraulic reservoir(s) (volume and location):

See the drawing of HM-6-14-1, HM-6-14-2.

6.2.6. Particular characteristics of the braking system(s)

6.2.6.1. Brake shoes and/or pads:

See the drawing of HM-6-14-3.

6.2.6.2. Linings and/or pads (indicate make, type, grade of material or identification mark):

See the drawing of HM-6-14-1, HM-6-14-2.

6.2.6.3. Brake levers and/or pedals:

See the drawing of HM-6-14-1, HM-6-14-2.

6.2.6.4. Other devices (where applicable): drawing and description: N.A.

6.3. Electrical safety

6.3.1. Brief description of the power circuit components installation and drawings/photographs showing the location of the power circuit components installation:

See the drawing of HM-6-15

6.3.2. Schematic diagram of all electrical functions included in power circuit:

See the drawing of HM-6-15

6.3.3. Working voltage(s):

Power working voltage: 60V

Other electrical components voltage: 12V DC

6.3.4. Description of protection against electric-shocks:

Using terminal box that made by high and low pressure polyethylene material, and nylon plug to protect against electric-shocks

6.3.5. Fuse and/or circuit breaker: ~~yes/no/optional~~, circuit breaker

6.3.5.1. Diagram showing the functional range: 80 A

6.3.6. Configuration of power wiring harness: See the drawing of HM-6-13, HM-6-15

6.4. Front and rear protective structures: N.A.

6.5. Glazing, windscreen wipers and washers, and defrosting and demisting systems: N.A.

6.6. Windscreen wiper(s): N.A.

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6.7. Windscreen washer: N.A.

6.8. Defrosting and demisting: N.A.

6.9. Driver-operated controls including identification of controls, tell- tales and indicators

6.9.1. Arrangement and identification of controls, tell-tales and indicators:

See the drawing of HM-6-16, HM-6-16-1

6.9.2. Photographs and/or drawings of the arrangement of symbols and controls, tell-tales and indicators:

See the drawing of HM-6-16, HM-6-16-1

6.9.3. Controls, tell-tales and indicators for which, when fitted, identification is mandatory, including the identification symbols to be used for that purpose: See table 6.9.4.

6.9.4. Summary table: the vehicle is equipped with the following driver-operated controls, including indicators and tell-tales: See table 6.9.4.

6.9.5. Controls, tell-tales and indicators for which, when fitted, identification is optional, and symbols which shall be used if they are to be identified: See table 6.9.5.

6.10. Speedometer and odometer

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6.10.1. Speedometer

6.10.1.1. Photographs and/or drawings of the complete system:

See the drawing of HM-6-17

6.10.1.2. Vehicle speed range displayed: 0~80 km/h, 0~50 mph.

6.10.1.3. Tolerance of the measuring mechanism of the speedometer:

$$0 \leq (V1-V2) \leq 0.1 \cdot V2 + 4 \text{ km/h}$$

V1: display speed, V2: actual speed

6.10.1.4. Technical constant of the speedometer:

$$1 \text{ pluse/min} = 0.262 \times 10^{-3} \text{ km/h}$$

6.10.1.5. Method of operation and description of the drive mechanism:

Directly connect to the controller, to drive speedometer through the signal from controller.

6.10.1.6. Overall transmission ratio of the drive mechanism: 310 pluse / 1 wheel rotation

6.10.2. Odometer

6.10.2.1. Tolerance of the measuring mechanism of the odometer: 0~+5 km

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6.10.2.2. Method of operation and description of the drive mechanism:

Directly connect to the controller, to drive odometer through the signal from controller.

6.11. Installation of lighting, light-signaling devices, including automatic switching of lighting

6.11.1. List of all devices (mentioning the number, make(s), type, component type- approval mark(s), the maximum intensity of the main-beam headlamps, colour, the corresponding tell-tale): See table 6.11.1.

6.11.2. Diagram showing the location of the lighting and light-signaling devices:

See the drawing of HM-6-18

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6.11.3. Hazard warning lamps: N.A.

6.11.4. Brief description of the electrical and/or electronic components used in the lighting system and in the light-signaling system: N.A.

6.11.5. For every lamp and reflector, supply the following information (in writing and/or by diagram):

6.11.5.1. Drawing showing the extent of the illuminating surface:

See lightings component type-approval

6.11.5.2. Method used to define the apparent surface in accordance with point 2.10 of UNECE Regulation No 48 (OJ L 323, 6.12.2011, p. 46): The light-emitting surface

6.11.5.3. Axis of reference and centre of reference: See lighting component type-approval

6.11.5.4. Method of operation of concealable lamps: N.A.

6.11.6. Description/drawing and type of headlamp leveling device (e.g. automatic, stepwise manually adjustable, continuously manually adjustable):  
continuously manually adjustable

6.11.6.1. Control device: Set screw.

6.11.6.2. Reference marks: N.A.

6.11.6.3. Marks assigned for loading conditions: N.A.

6.12. Rearward visibility

6.12.1. Rear-view mirrors (stating for each mirror)

6.12.1.1. Drawing(s) for the identification of the mirror showing the position of the mirror relative to the vehicle structure:

See the drawing of HM-6-19

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- 6.12.1.2. Details of the method of attachment including that part of the vehicle structure to which it is attached: See the drawing of HM-6-19
- 6.12.1.3. A brief description of the electronic components of the adjustment system: N.A.
- 6.12.2. Devices for indirect vision other than mirrors: N.A.
  - 6.12.2.1. Description of the device: N.A.
  - 6.12.2.2. In the case of a camera-monitor device, the detection distance (mm), contrast, luminance range, glare correction, display performance (black and white/colour), image repetition frequency, luminance reach of the monitor: N.A.
  - 6.12.2.3. Sufficiently detailed drawings to identify the complete device, including installation instructions; the position for the EU type-approval mark has to be indicated on the drawings: N.A.
- 6.13. Rollover protective structure (ROPS): N.A. [e13\\*168/2013\\*01895\\*00](#)  
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- 6.14. Safety belts and/or other restraints: N.A.
- 6.15. Safety belt anchorages: N.A.
- 6.16. Seating positions (saddles and seats)
  - 6.16.1. Number of positions: 2
    - 6.16.1.1. (L2e, L5e, L6e, L7e) Location and arrangement: N.A.
  - 6.16.2. Seating position configuration: ~~seat~~/saddle
  - 6.16.3. Description and drawings of:
    - 6.16.3.1. The seats and their anchorages: N.A.
    - 6.16.3.2. The adjustment system: N.A.
    - 6.16.3.3. The displacement and locking systems: N.A.
    - 6.16.3.4. The seat-belt anchorages incorporated in the seat structure: N.A.
    - 6.16.3.5. The parts of the vehicle used as anchorages: N.A.
  - 6.16.4. (L2e, L4e, L5e-B, L6e-B, L7e) Coordinates or drawing of the R-point(s) of all seating positions: N.A.
    - 6.16.4.1. (L2e, L4e, L5e-B, L6e-B, L7e) Driver's seat: N.A.
    - 6.16.4.2. (L2e, L4e, L5e-B, L6e-B, L7e) All other seating positions: N.A.
  - 6.16.5. Design torso angle: N.A.
    - 6.16.5.1. Driver's seat: N.A.



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6.16.5.2. All other seating positions: N.A.

6.16.6. Range of seat adjustment: N.A.

6.16.6.1. Driver's seat: N.A.

6.16.6.2. All other seating positions: N.A.

6.17. Steer-ability, cornering properties and turn-ability.

6.17.1. Schematic diagram of steered axle(s) showing steering geometry:

See the drawing of HM-6-20

6.17.2. Transmission and control of steering

6.17.2.1. Configuration of steering transmission (specify for front and rear):

See the drawing of HM-6-20

6.17.2.2. Linkage to wheels (including other than mechanical means; specify for front and rear): See the drawing of HM-6-20

6.17.2.2.1. A brief description of the electrical/electronic components: N.A.

6.17.2.3. Diagram of the steering transmission: N.A.

6.17.2.4. (L2e, L5e, L6e, L7e) Schematic diagram(s) of the steering control(s): N.A.

6.17.2.5. (L2e, L5e, L6e, L7e) Range and method of adjustment of the steering control(s): N.A.

6.17.2.6. (L2e, L5e, L6e, L7e) Method of assistance: N.A.

6.17.3. Maximum steering angle of the wheels

6.17.3.1. To the right: 45°; ~~number of turns of the steering wheel (or equivalent data):~~

6.17.3.2. To the left: 45°; ~~number of turns of the steering wheel (or equivalent data):~~

6.18. Tyres/wheels combination:

6.18.1. Tyres:

6.18.1.1. Size designation

6.18.1.1.1. Axle 1: See table 6.18.

6.18.1.1.2. Axle 2: See table 6.18.

6.18.1.1.3. (L4e) Sidecar wheel: N.A.

6.18.1.2. Minimum load-capacity index:

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Front: 23(87.5 kg)  
Rear: 46(170 kg)

- 6.18.1.3. Minimum-speed category symbol compatible with the theoretical maximum design vehicle speed: B
- 6.18.1.4. Tyre pressure(s) as recommended by the vehicle manufacturer: See table 6.18.
- 6.18.2. Wheels:
  - 6.18.2.1. Rim size(s): See table 6.18.
  - 6.18.2.2. Categories of use compatible with the vehicle: normal
  - 6.18.2.3. Nominal rolling circumference: See table 6.18.
- 6.19. Vehicle maximum speed limitation plate and its location on the vehicle: N.A.
- 6.20. Vehicle occupant protection, including interior fittings and vehicle doors: N.A.
- 6.21. Maximum continuous total power and/or maximum vehicle speed limitation by design.
  - 6.21.1. Propulsion and/or drive-train output governors:
    - 6.21.1.1. Number (minimum two, exemption L3e-A3 and L4e-A3): Two
    - 6.21.1.2. How is the redundancy of governors ensured:
      - (1) reduction of the maximum power output of one electric motors based on the vehicle or rotation speed as sensed internally to the electric motor
      - (2) physical vehicle speed limitation by means of external components such as a maximum achievable revolution speed of an electric motor
    - 6.21.1.3. Nominal cut-off point no 1:
      - 6.21.1.3.1. Engine/motor/drive-train rotation speed at which cut-off starts under load:
        - Variant 00/Version 00: 383 min<sup>-1</sup>
        - Variant 01/Version 00: 213 min<sup>-1</sup>
      - 6.21.1.3.2. Maximum rotation speed at the minimum engine load:
        - Variant 00/Version 00: 383 min<sup>-1</sup>
        - Variant 01/Version 00: 213 min<sup>-1</sup>
    - 6.21.1.4. Nominal cut-off point no 2
      - 6.21.1.4.1. Engine/motor/drive-train rotation speed at which cut-off starts under load:
        - N.A.
      - 6.21.1.4.2. Maximum rotation speed at the minimum engine load:

|            |   |                  |
|------------|---|------------------|
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N.A.

6.21.1.5. The stated purpose of governor(s): maximum design vehicle speed limitation/~~maximum power limitation/engine over speed protection~~

## 7. INFORMATION ON VEHICLE CONSTRUCTION

7.1. Coupling devices and attachments: N.A.

7.1.1. L-category vehicle equipped with coupling device: ~~yes/no/optional~~ N.A.

7.1.2. Guidelines and information for consumers in all EU languages regarding the impact on the driveability of using a trailer with an L-category vehicle included in the owner's manual: ~~yes/no~~ N.A.

7.1.3. For coupling-device approved as separate technical unit: installation and operating instructions added to documentation: ~~yes/no~~ N.A.

7.1.4. Photographs and/or drawings showing the position and the construction of the coupling-devices: ~~yes/no~~ N.A.

7.1.5. Instructions for attaching the coupling-type to the vehicle and photographs or drawings of the fixing points on the vehicle as stated by the manufacturer; additional information, if the use of the coupling-type is restricted to certain variants or versions of the vehicle type: N.A.

7.1.6. Attachment points for a secondary coupling and/or breakaway cable (drawings and pictures may be used as appropriate): ~~yes/no~~ N.A.

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7.2. Devices to prevent unauthorised use [Société Nationale de Certification et d'Homologation](#)

7.2.1. Protective device

7.2.1.1. Summary description of protective device(s) used:

Type 2, positively operated on the steering in conjunction with the device which de-activates the motor of the vehicle.  
See the drawing of HM-6-22

7.2.2. Vehicle immobiliser:

7.2.2.1. Technical description of the vehicle immobiliser and of the measures taken against inadvertent activation: N.A

7.2.3. Alarm system: N.A

7.2.3.1. Description of the alarm system and of the vehicle parts involved in installation: N.A

7.2.3.2. List of the main components comprising the alarm system: N.A

7.3. Electromagnetic compatibility (EMC)

7.3.1. Requirements under UNECE Regulation No 10 (OJ L 254, 20.9.2012, p. 1) are met with relevant documentation included in the information document: ~~yes/no~~

|            |   |                  |
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7.3.2. Table or drawing of radio-interference control equipment:

See the drawing of HM-6-15

7.3.3. Particulars of the nominal value of the direct-current resistance, and, in the case of resistive ignition cables, of their nominal resistance per metre:

1. 1.50 mm<sup>2</sup> (max. resistance: 13.3 Ohm/km)
2. 1.00 mm<sup>2</sup> (max. resistance: 19.5 Ohm/km)
3. 0.75 mm<sup>2</sup> (max. resistance: 26.0 Ohm/km)
4. 0.50 mm<sup>2</sup> (max. resistance: 39.0 Ohm/km)
5. 0.30 mm<sup>2</sup> (max. resistance: 69.2 Ohm/km)

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7.4. External projections

7.4.1. (L1e-L7e vehicles with bodywork)

General arrangement (drawing or photographs accompanied if necessary by dimensional details and/or text) indicating the position of the attached sections and views, of any parts of the exterior surface which can be regarded as critical for external projections, for example, and where relevant: bumpers, floor line, door and window pillars, air-intake grilles, radiator grille, windscreen wipers, rain gutter channels, handles, slide rails, flaps, door hinges and locks, hooks, eyes, winches, decorative trim, badges, emblems and recesses and any other parts of the exterior surface which can be regarded as critical (e.g. lighting equipment): N.A.

7.5. Fuel storage

7.5.1. Fuel tank(s)

7.5.2. Compressed natural gas (CNG) container(s): N.A.

7.5.3. Liquefied petroleum gas (LPG) container(s): N.A.

7.6. On-board diagnostics (OBD) functional requirements: N.A.

7.7. Passenger handholds and footrests

7.7.1. Handholds

7.7.1.1. Configuration: ~~strap and/or~~ handle

7.7.1.2. Photographs and/or drawings showing the location and the construction:

See the drawing of HM-6-23

7.7.2. Footrests

7.7.2.1. Photographs and/or drawings showing the location and the construction:

See the drawing of HM-6-24, HM-6-24-1

7.8. Registration plate space

|            |   |                  |
|------------|---|------------------|
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7.8.1. Location of rear registration plate (indicate variants where necessary; drawings may be used as appropriate): See the drawing of HM-6-25, HM-6-25-1

7.8.1.1. Height above road surface, upper edge: See the drawing of HM-6-25, HM-6-25-1

7.8.1.2. Height above road surface, lower edge: See the drawing of HM-6-25, HM-6-25-1

7.8.1.3. Distance of the centre line from the longitudinal median plane of the vehicle: 0

7.8.1.4. Dimensions (length x width): See the drawing of HM-6-25, HM-6-25-1

7.8.1.5. Inclination of the plane to the vertical: See the drawing of HM-6-25, HM-6-25-1

7.8.1.6. Angle of visibility in the horizontal plane:

To the left and to the right of the plate of 30° and more.

7.9. Stands

7.9.1. (L1e, L3e) Configuration: ~~central~~ and side

7.9.2. (L1e, L3e) Construction material used: metal

7.9.3. (L1e, L3e) Photographs and drawings showing the location of the stand(s) in relation to the structure of the vehicle:

See the drawing of HM-6-26

7.9.4. (L1e, L3e) Description of the method to prevent contact of the stand with the ground when the vehicle is being propelled:

See the drawing of HM-6-26

Table 6.9.4.  
Controls, tell-tales and indicators for which, when fitted, identification is mandatory, and symbols to be used for that purpose

| Symbol No. | Device                               | Control /indicator available (*) | Identified by symbol(*) | Where (**) | Tell-tale available (*) | Identified by symbol(*) | Where (**) |
|------------|--------------------------------------|----------------------------------|-------------------------|------------|-------------------------|-------------------------|------------|
| 1          | Maser light                          | -                                | -                       | -          | -                       | -                       | -          |
| 2          | Dipped-beam head lamps               | x                                | x                       | c          | -                       | -                       | -          |
| 3          | Main-beam head lamps                 | x                                | x                       | c          | x                       | x                       | d          |
| 4          | Position (side) lamps                | -                                | -                       | -          | -                       | -                       | -          |
| 5          | Front fog lamps                      | -                                | -                       | -          | -                       | -                       | -          |
| 6          | Rear fog lamps                       | -                                | -                       | -          | -                       | -                       | -          |
| 7          | Headlamp leveling device             | -                                | -                       | -          | -                       | -                       | -          |
| 8          | Parking lamps                        | -                                | -                       | -          | -                       | -                       | -          |
| 9          | Direction indicators                 | x                                | x                       | c          | x                       | x                       | d          |
| 10         | Hazard warning (option 1)            | -                                | -                       | -          | -                       | -                       | -          |
| 10         | Hazard warning (option 2)            | x                                | x                       | c          | x                       | x                       | d          |
| 11         | Windscreen wiper                     | -                                | -                       | -          | -                       | -                       | -          |
| 12         | Windscreen washer                    | -                                | -                       | -          | -                       | -                       | -          |
| 13         | Windscreen wiper and washer          | -                                | -                       | -          | -                       | -                       | -          |
| 14         | Headlamp cleaning device             | -                                | -                       | -          | -                       | -                       | -          |
| 15         | Windscreen demisting and defrosting  | -                                | -                       | -          | -                       | -                       | -          |
| 16         | Rear window demisting and defrosting | -                                | -                       | -          | -                       | -                       | -          |
| 17         | Ventilating fan                      | -                                | -                       | -          | -                       | -                       | -          |
| 18         | Diesel pre-heat                      | -                                | -                       | -          | -                       | -                       | -          |
| 19         | Choke                                | -                                | -                       | -          | -                       | -                       | -          |
| 20         | Brake failure                        | -                                | -                       | -          | -                       | -                       | -          |
| 21         | Fuel level                           | -                                | -                       | -          | -                       | -                       | -          |
| 22         | Battery charging condition           | -                                | -                       | -          | -                       | -                       | -          |
| 23         | Engine coolant temperature           | -                                | -                       | -          | -                       | -                       | -          |
| 24         | Malfunction indicator light (MI)     | -                                | -                       | -          | -                       | -                       | -          |

(\*) x = yes

- = no or not separately available

o = optional

(\*\*) d = directly on control, indicator or tell-tale

c = in close vicinity

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Table 6.9.5.  
Controls, tell-tales and indicators for which, when fitted, identification is optional, and symbols which shall be used if they are to be identified

| Symbol No. | Device                        | Control /indicator available (*) | Identified by symbol(*) | Where (**) | Tell-tale available (*) | Identified by symbol(*) | Where (**) |
|------------|-------------------------------|----------------------------------|-------------------------|------------|-------------------------|-------------------------|------------|
| 1          | Parking brake                 | -                                | -                       | -          | -                       | -                       | -          |
| 2          | Rear window wiper             | -                                | -                       | -          | -                       | -                       | -          |
| 3          | Rear window washer            | -                                | -                       | -          | -                       | -                       | -          |
| 4          | Rear window wiper and washer  | -                                | -                       | -          | -                       | -                       | -          |
| 5          | Intermittent windscreen wiper | -                                | -                       | -          | -                       | -                       | -          |
| 6          | Audible warning device (horn) | x                                | x                       | d          | -                       | -                       | -          |
| 7          | Front hood (bonnet)           | -                                | -                       | -          | -                       | -                       | -          |
| 8          | Rear hood (boot)              | -                                | -                       | -          | -                       | -                       | -          |
| 9          | Seat belt                     | -                                | -                       | -          | -                       | -                       | -          |
| 10         | Engine oil pressure           | -                                | -                       | -          | -                       | -                       | -          |
| 11         | Unleaded petrol               | -                                | -                       | -          | -                       | -                       | -          |
| 12         | Neutral indicator             | -                                | -                       | -          | -                       | -                       | -          |
| 13         | Optical warning device        | -                                | -                       | -          | -                       | -                       | -          |
| 14         | Ignition switch               | -                                | -                       | -          | -                       | -                       | -          |
| 15         | External cord connect         | -                                | -                       | -          | -                       | -                       | -          |
| 16         | Electric motor enabled        | -                                | -                       | -          | x                       | x                       | d          |
| 17         | Cruise control                | -                                | -                       | -          | -                       | -                       | -          |
| 18         | Battery failure               | -                                | -                       | -          | -                       | -                       | -          |
| 19         | Reversing switch              | x                                | x                       | d          | -                       | -                       | -          |
| 20         | Parking button                | -                                | -                       | -          | -                       | -                       | -          |
| 21         | Gear selection                | x                                | x                       | c          | x                       | x                       | d          |

(\*) x = yes

- = no or not separately available

o = optional

(\*\*) d = directly on control, indicator or tell-tale





c = in close vicinity

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Table 6.11.1.

List of all devices (mentioning the number, make(s), type, component type- approval mark(s), the maximum intensity of the main-beam headlamps, colour, the corresponding tell-tale)

| DEVICES   | MAKE/MODEL  | NUMBER/<br>COLOUR | TELL-TALE      | APPROVAL<br>NUMBER        | MAXIMUM<br>INTENSITY |
|---|---|-------------------|----------------|---------------------------|----------------------|
| DRIVING BEAM HEADLAMP,<br>PASSING BEAM HEADLAMP | TG/TGQD-03  | 1 / white         | YES/<br>Blue   | E57*149R00/03*0<br>112*00 | 32250cd              |
|   |   | 1 / white         | ---            | E57*149R00/03*0<br>112*00 | ----                 |
| FRONT POSITION LAMP                             | TG/TGQD-03  | 1 / white         | ---            | E57*148R00/03*0<br>112*00 | ----                 |
| FRONT & REAR DIRECTION<br>INDICATOR (option 1)  | SHIJIN/SJ-LED-Z10   | 2 /amber          | YES /<br>Green | E4*50R00/19*<br>2854*00   | ----                 |
| FRONT & REAR DIRECTION<br>INDICATOR (option 2)  |  /CG/D-ZX-HL                             | 2 /amber          | YES /<br>Green | E4*50R01/00*<br>3107*00   | ----                 |
| FRONT & REAR DIRECTION<br>INDICATOR (option 3)  | Xiaosongshu/KL-602  | 2 /amber          | YES /<br>Green | E57*50R01/00*01<br>51     | ----                 |
| FRONT & REAR DIRECTION<br>INDICATOR (option 4)  | TS/TS-ZX14  | 2 /amber          | YES /<br>Green | E57*148R00/03*0<br>369    | ----                 |
| REAR POSITION LAMP                              | SHIJIN/SJ-LED-W01   | 1 / red           | *              | E4*50R00/19*<br>26277*00  | ----                 |
| STOP LAMP (option 1)                            |   | 1 / red           | NO             |                           | ----                 |
| REAR REGISTRATION PLATE<br>LAMP (option 1)      |   | 1 / white         | *              |                           | ----                 |
| REAR POSITION LAMP                              |  /CG/D-W-HL                            | 1 / red           | *              | E4*50R01/00*<br>3108*00   | ----                 |
| STOP LAMP (option 2)                            |   | 1 / red           | NO             |                           | ----                 |
| REAR REGISTRATION PLATE<br>LAMP (option 2)      |   | 1 / white         | *              |                           | ----                 |
| REAR RETRO-REFLECTOR                            | K-LITE, KYI, HILUX K-<br>LITE,  /KM206 | 1 / red           | NO             | E4*3R02/17*3713*<br>01    | ----                 |
| SIDE RETRO-REFLECTOR                            | K-LITE, KYI, HILUX K-<br>LITE,  /KM101 | 2 / amber         | NO             | E4-3R-023298<br>Ext.03    | ----                 |

\*Instrument panel illumination



|            |  |                  |
|------------|--|------------------|
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Table 6.18.

Tyres/wheels combination

| Axle  | Type approval number     | Dimension        | Max. loading | Speed Category | Rims     | Nominal rolling circumference | Tyre pressure |
|-------|--------------------------|------------------|--------------|----------------|----------|-------------------------------|---------------|
| Front | E4*75R00/19*051<br>02*07 | 110/70-17<br>M/C | 54           | S              | 3.00X 17 | 1837 mm                       | 250kpa        |
| Rear  | E4*75R00/19*101<br>43*02 | 120/80-17<br>M/C | 61           | P              | 2.75X17  | 1959 mm                       | 225 kPa       |

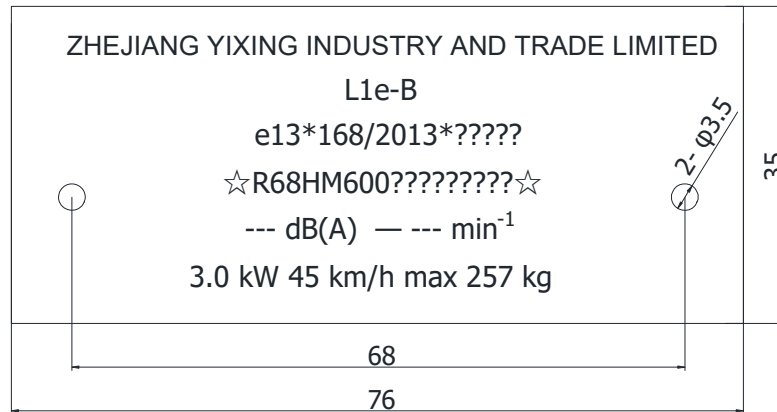
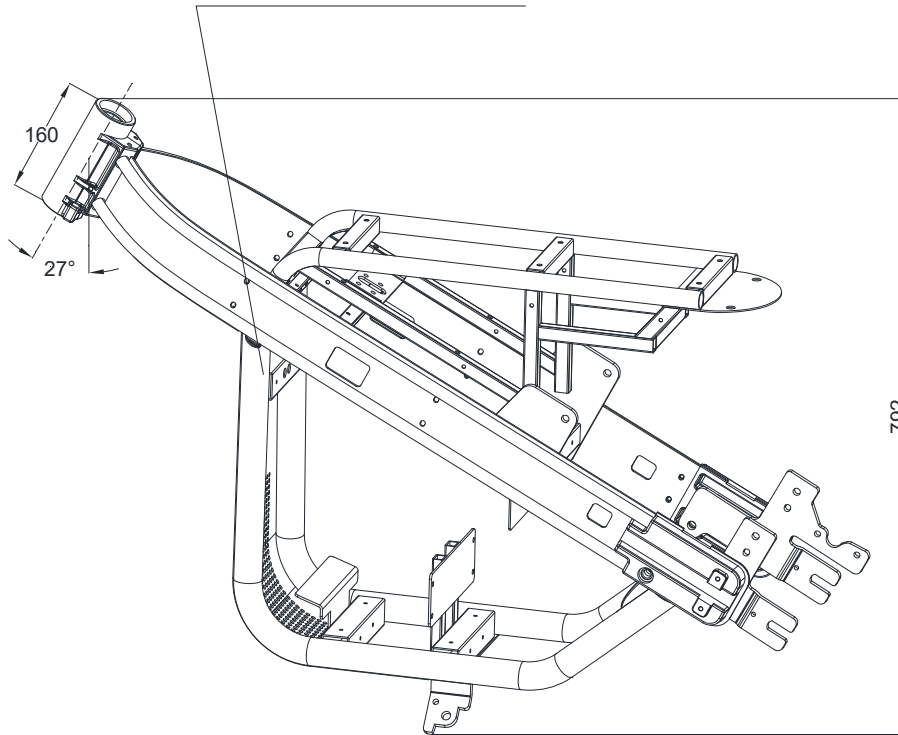
INDEX OF DRAWINGS

| Drawing No | Drawing description                    |
|------------|--|
| HM-6-01    | Manufacturer's Statutory Plate         |
| HM-6-01-1  | Manufacturer's Statutory Plate         |
| HM-6-02    | Vehicle Identification Number          |
| HM-6-03    | Photos of A Representative Vehicle     |
| HM-6-04    | Dimension Measured on Vehicle          |
| HM-6-05    | Chassis                                |
| HM-6-06    | Electric Motor                         |
| HM-6-07    | Location of The Propulsion Batteries   |
| HM-6-08    | Controller                             |
| HM-6-09    | Drive train                            |
| HM-6-10    | Front suspension                       |
| HM-6-11    | Rear suspension                        |
| HM-6-12    | Location of The Audible Warning Device |
| HM-6-13    | Electrical Circuit Diagram             |
| HM-6-14    | Brake System                           |
| HM-6-14-1  | Front brake system                     |
| HM-6-14-2  | Rear brake system                      |
| HM-6-14-3  | Front and Rear Brake pads              |
| HM-6-15    | Power Circuit Components Installation  |
| HM-6-16    | Controls, Tell-tales and Indicators    |
| HM-6-16-1  | Controls, Tell-tales and Indicators    |
| HM-6-17    | Speedometer and odometer               |
| HM-6-18    | Location of Lights                     |
| HM-6-19    | Location of Rear View Mirror           |
| HM-6-20    | Transmission and Control of Steering   |
| HM-6-21    | The seats and R point                  |
| HM-6-22    | Protective Device                      |
| HM-6-23    | Hands                                  |
| HM-6-24    | Footrest                               |
| HM-6-24-1  | Footrest                               |
| HM-6-25    | Rear Registration Plate                |
| HM-6-25-1  | Rear Registration Plate                |
| HM-6-26    | Side Stand                             |

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Riveted on the chassis  
 Manufacturer's Data Plate  
 R, x550,y50,z575



Text height:>4 mm  
 Text depth:0.3 mm

Variant 00

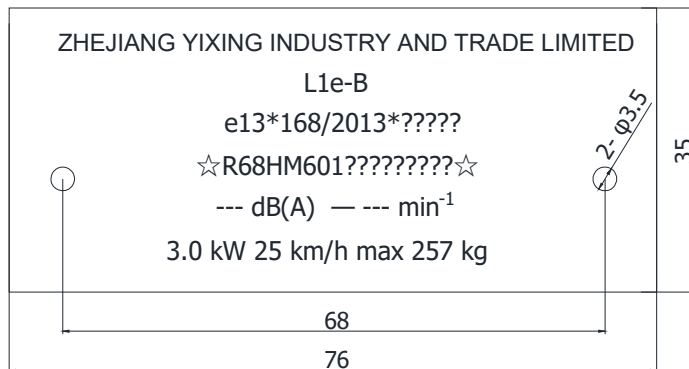
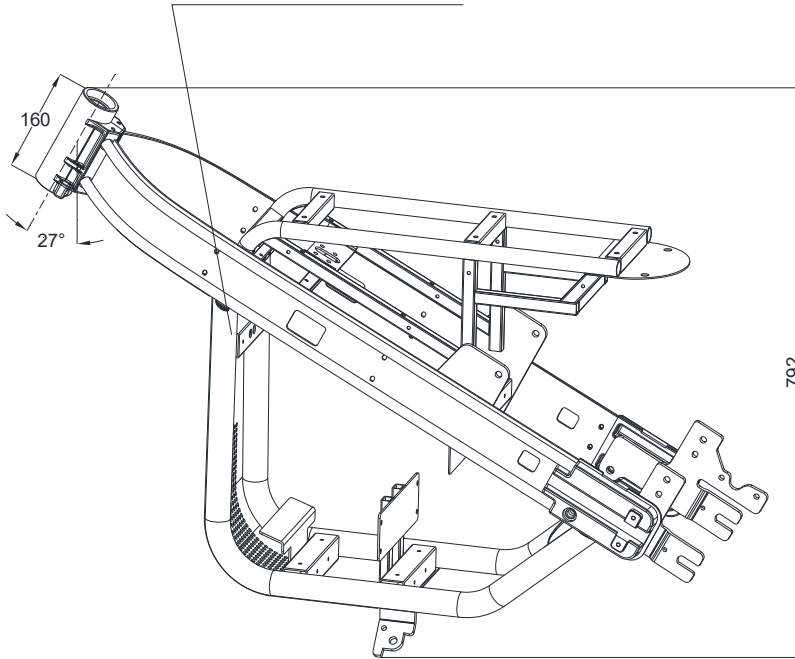
Material: aluminium

Method: riveted

|             |                                |
|-------------|--------------------------------|
| Title       | Manufacturer's Statutory Plate |
| Drawing NO. | HM-6-01                        |

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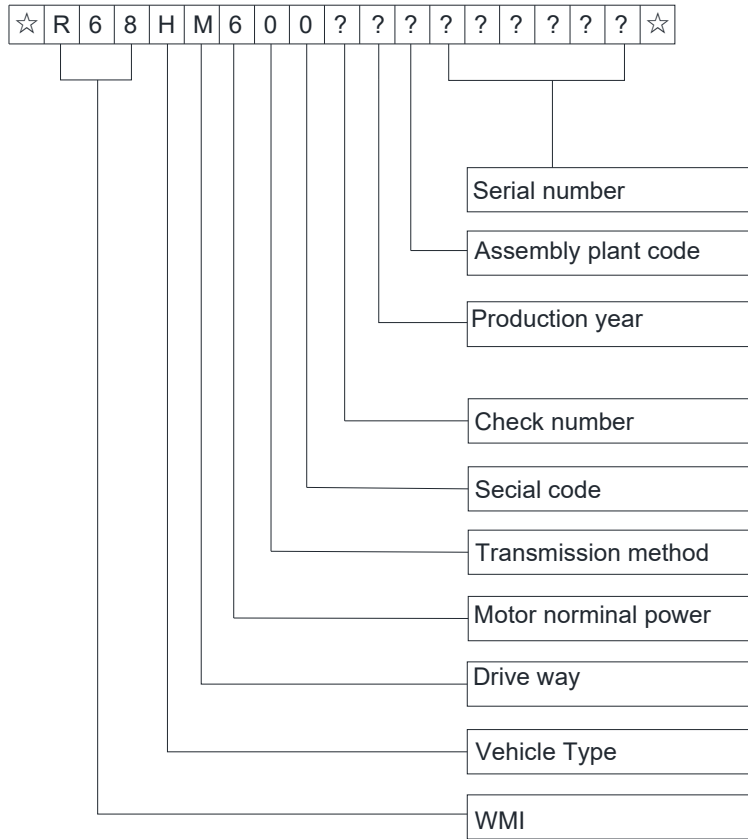
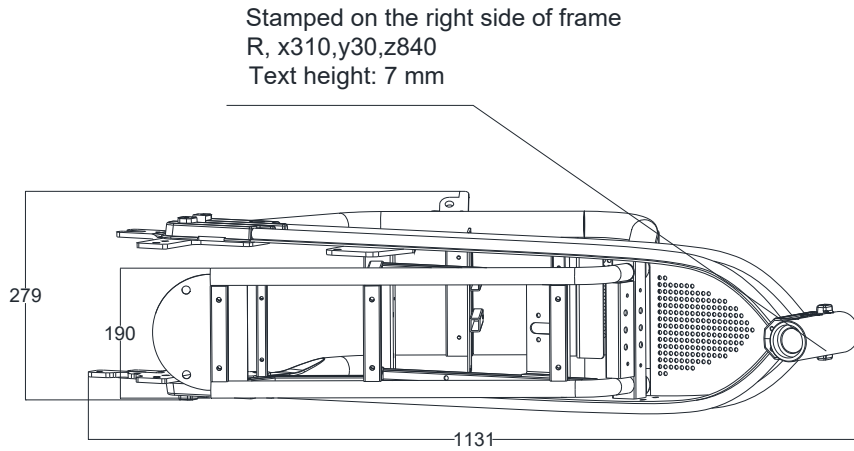
Riveted on the chassis Société Nationale de Certification et d'Homologation  
Manufacturer's Data Plate  
R, x550,y50,z575



Text height:>4 mm  
Text depth:0.3 mm

Variant 01  
Material: aluminium  
Method: riveted

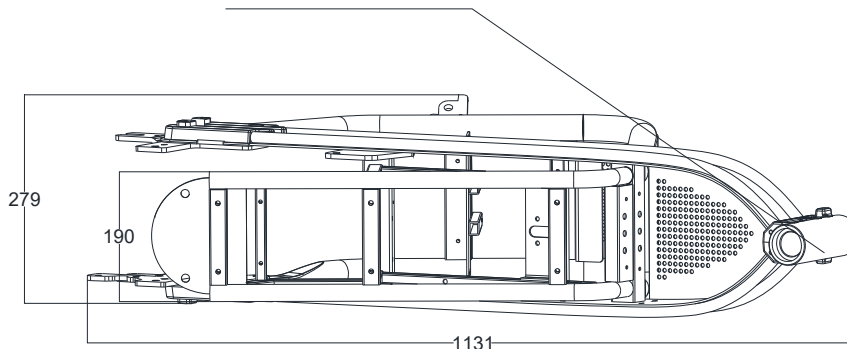
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| Drawing NO. | HM-6-01-1                      |



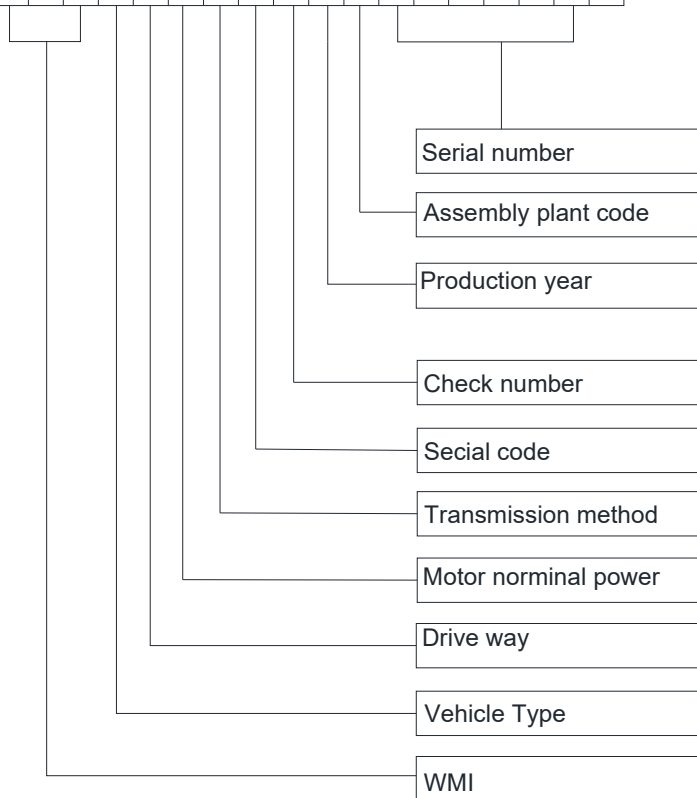
Variant 00

|             |                               |
|-------------|-------------------------------|
| Title       | Vehicle Identification Number |
| Drawing NO. | HM-6-02                       |

Stamped on the right side of frame  
 R, x310,y30,z840  
 Text height: 7 mm



☆ R 6 8 H M 6 0 1 ? ? ? ? ? ? ? ? ☆



Variant 01

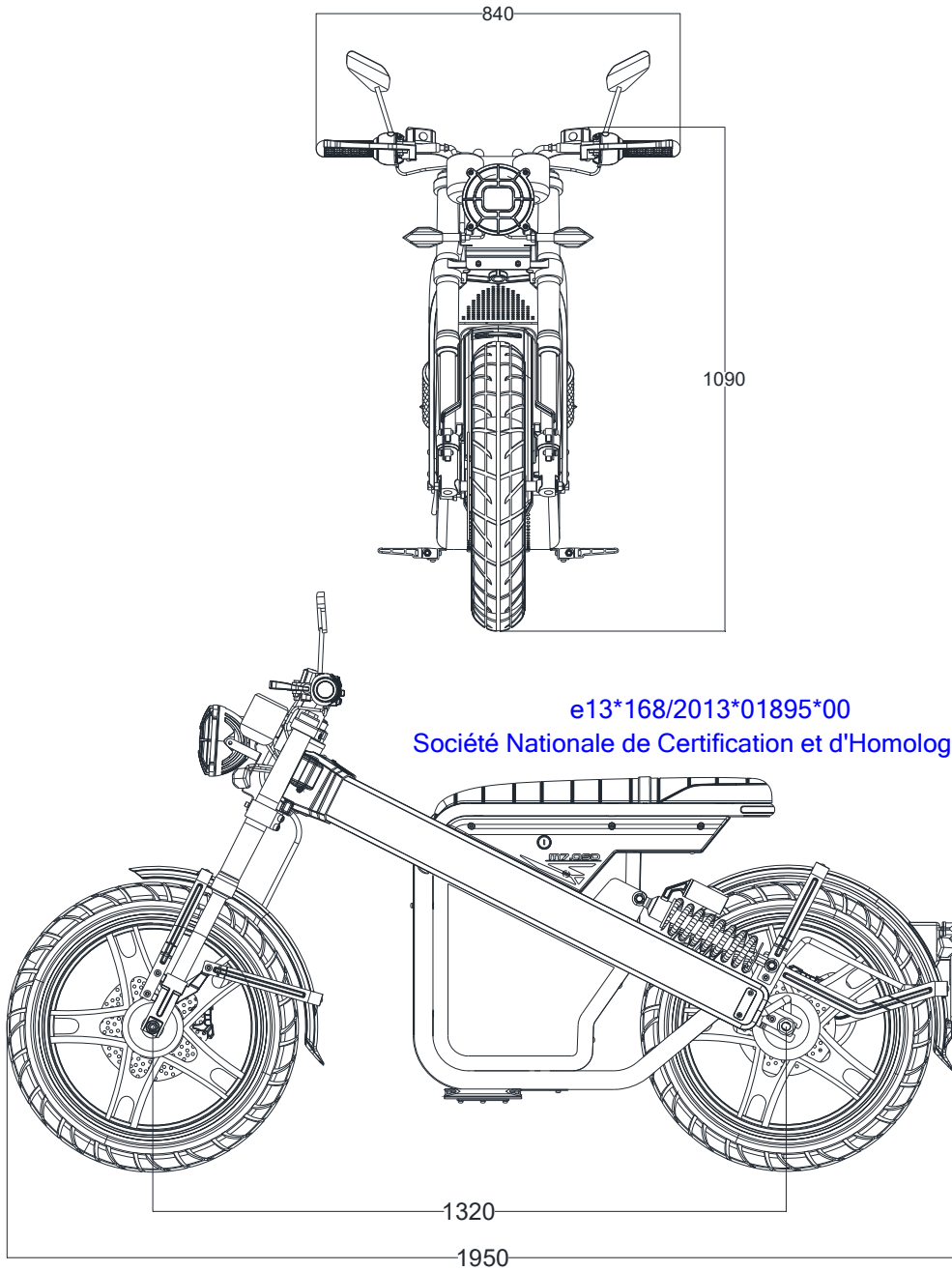
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| Title       | Vehicle Identification Number |
| Drawing NO. | HM-6-02-1                     |



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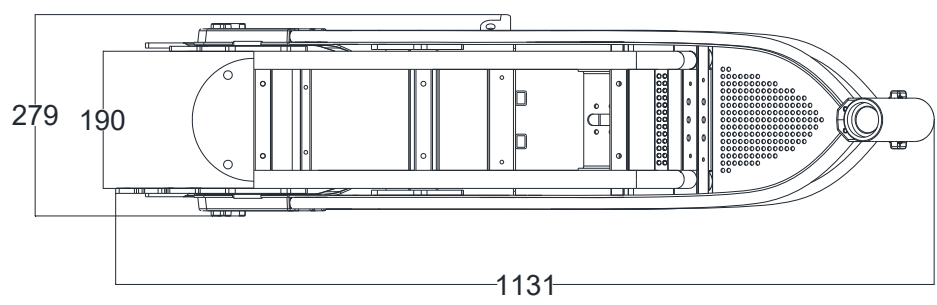
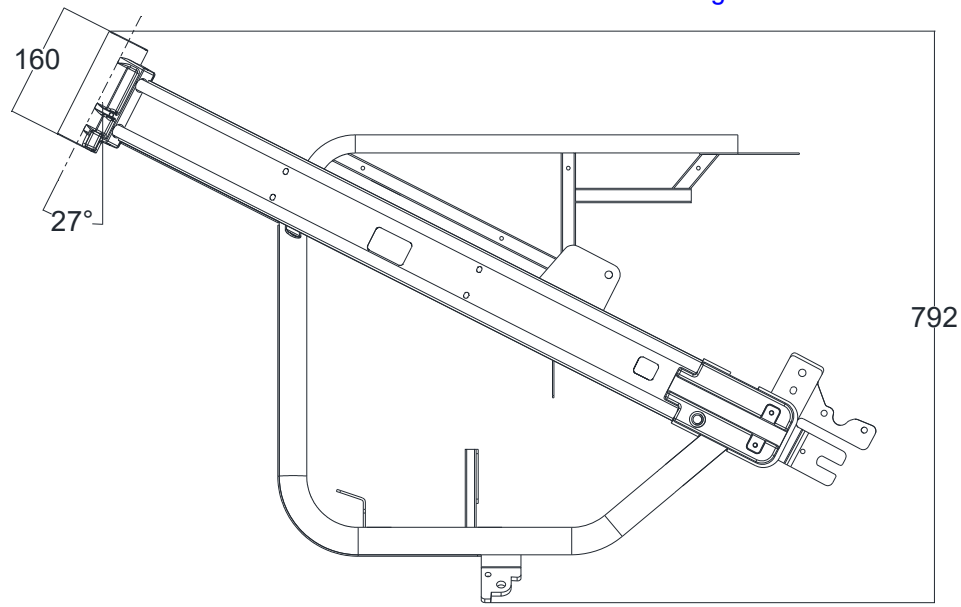
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|-------------|------------------------------------|
| Title       | Photos of A Representative Vehicle |
| Drawing NO. | HM-6-03                            |



| Title       | Dimension Measured on Vehicle |
|-------------|-------------------------------|
| Drawing NO. | HM-6-04                       |

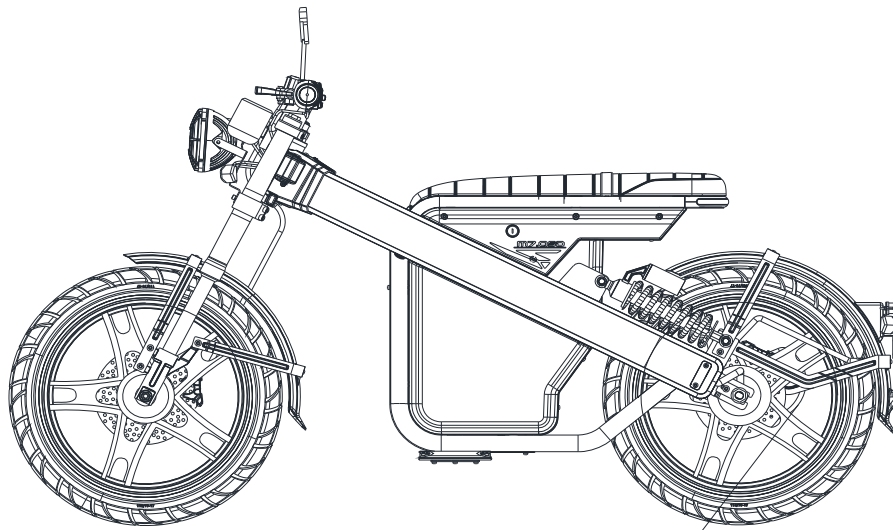


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Material: steel

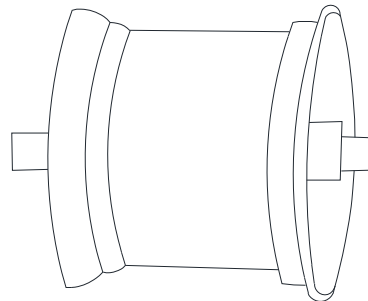
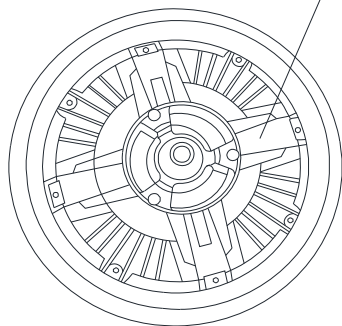
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|-------------|---------|
| Title       | Chassis |
| Drawing NO. | HM-6-05 |



Electric motor position

Detail :

Marking position

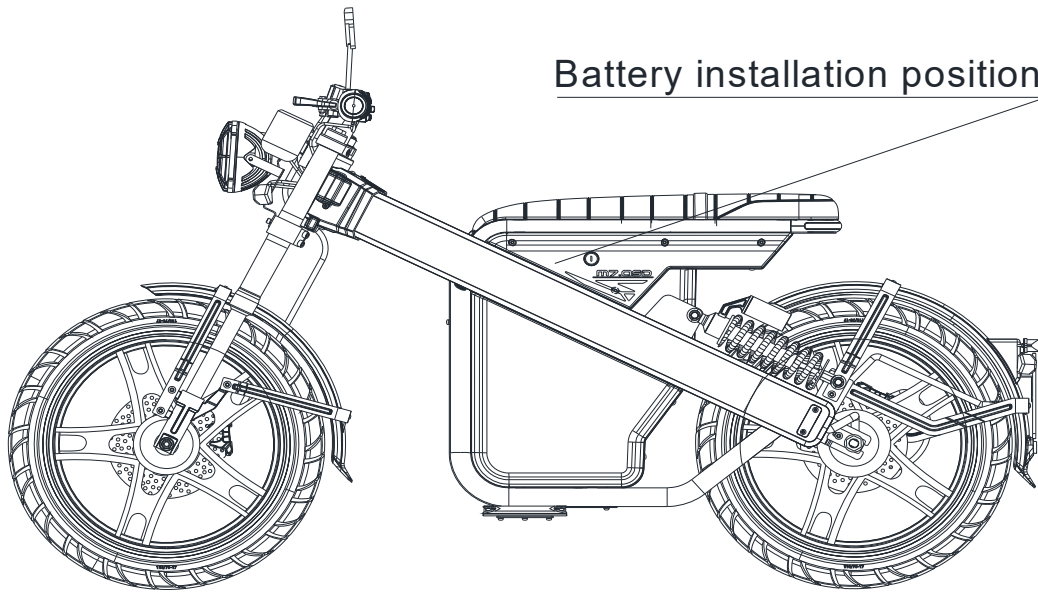


Manufacturer: Yongkang Changpao Industry and Trade Co., Ltd.

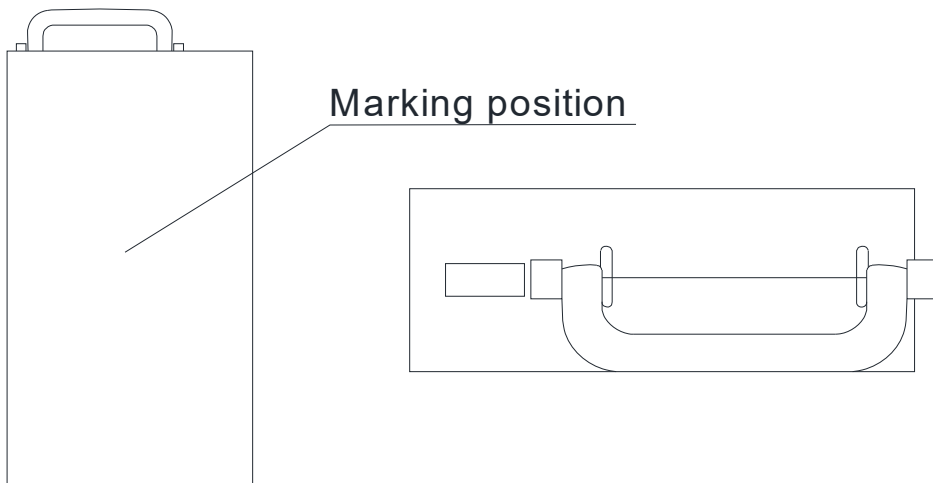
Type: HM6SS???????? (60V3000W35H)

Marking: SHANSU

|             |                |
|-------------|----------------|
| Title       | Electric Motor |
| Drawing NO. | HM-6-06        |

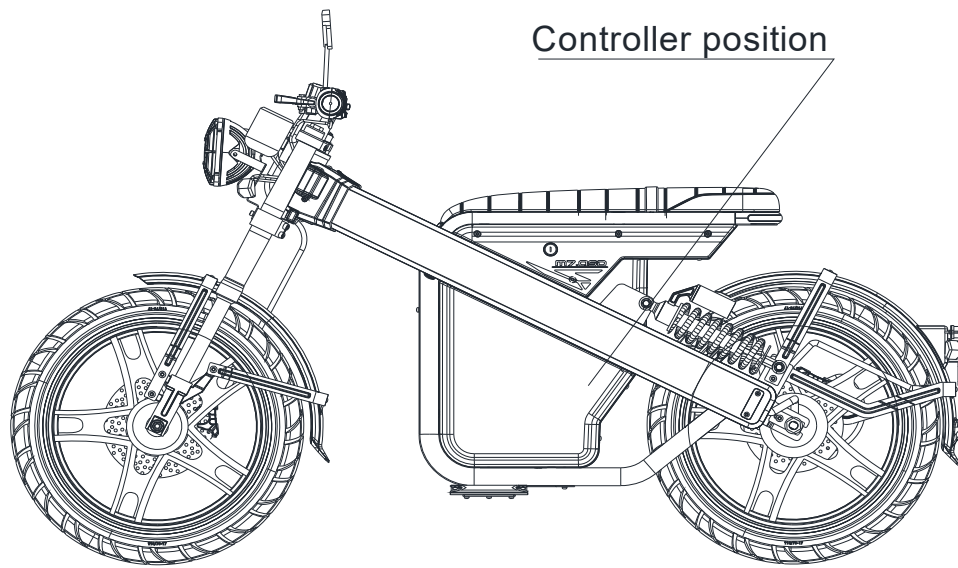


Detail :

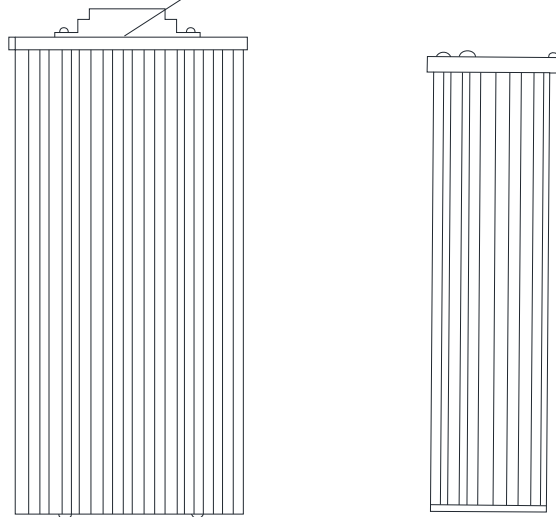


Manufacturer: Shenzhen Jubang Battery Co., Ltd.  
Type:18650  
Marking: JUBANG

|             |                                      |
|-------------|--------------------------------------|
| Title       | Location of The Propulsion Batteries |
| Drawing NO. | HM-6-07                              |



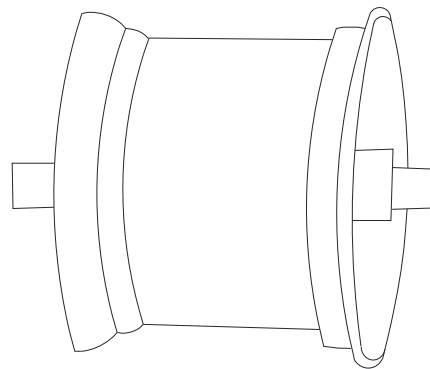
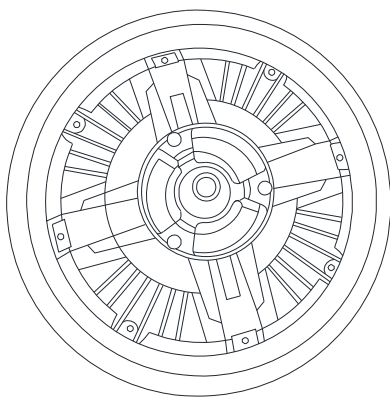
Detail : Marking position



Variant 00: Manufacturer: Wuxi Xinge Electrical & Technology Co., Ltd.  
 Type: SS12-60V-YTC  
 Marking: SS12-60V-YTC

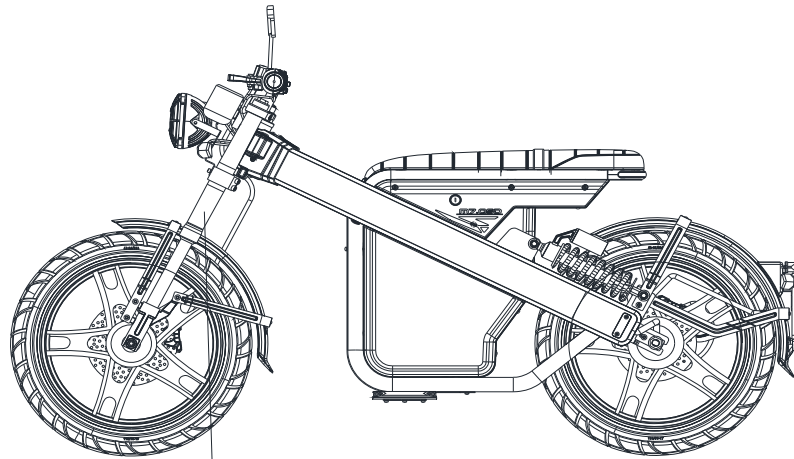
Variant 01: Manufacturer: Wuxi Xinge Electrical & Technology Co., Ltd.  
 Type: SS12-60V-YTC 25KM/H  
 Marking: SS12-60V-YTC 25KM/H

|             |            |
|-------------|------------|
| Title       | Controller |
| Drawing NO. | HM-6-08    |

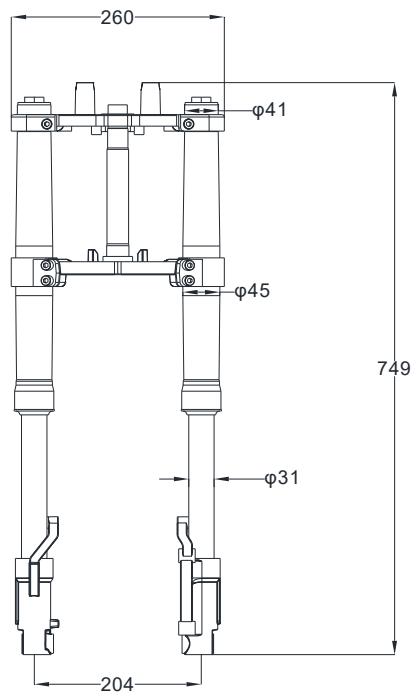


The wheel motor drives the wheels to rotate.

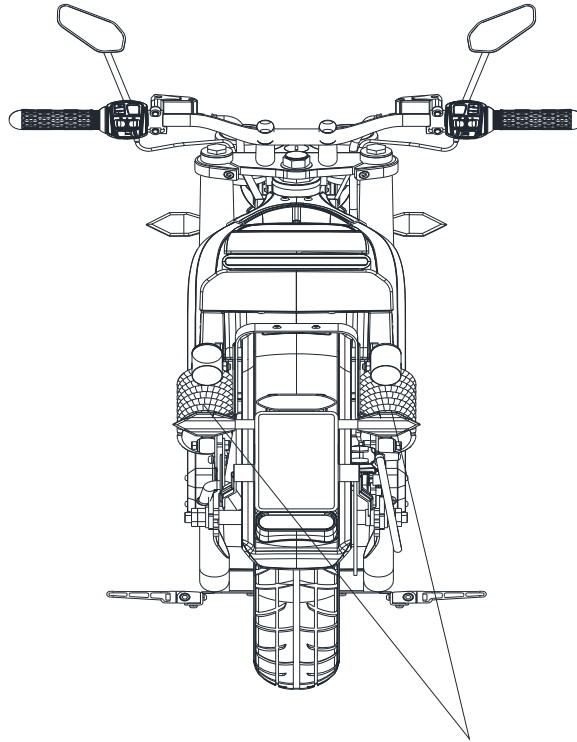
|             |             |
|-------------|-------------|
| Title       | Drive train |
| Drawing NO. | HM-6-09     |



Front suspension position

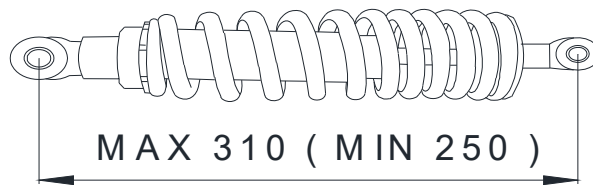


|             |                  |
|-------------|------------------|
| Title       | Front suspension |
| Drawing NO. | HM-6-10          |

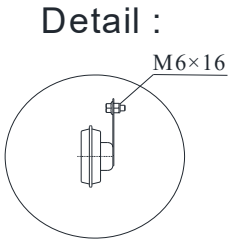
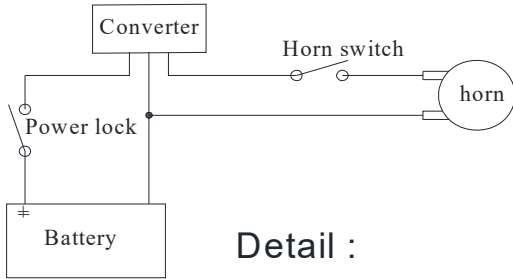
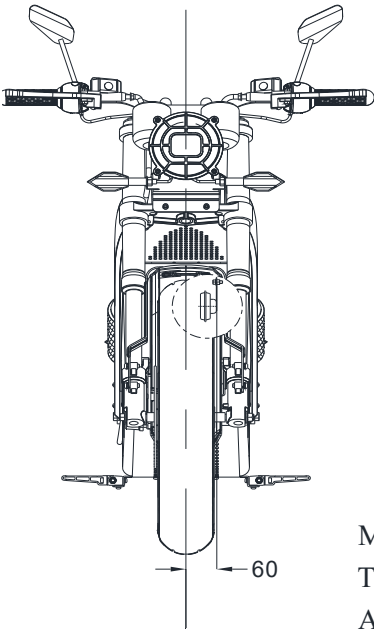
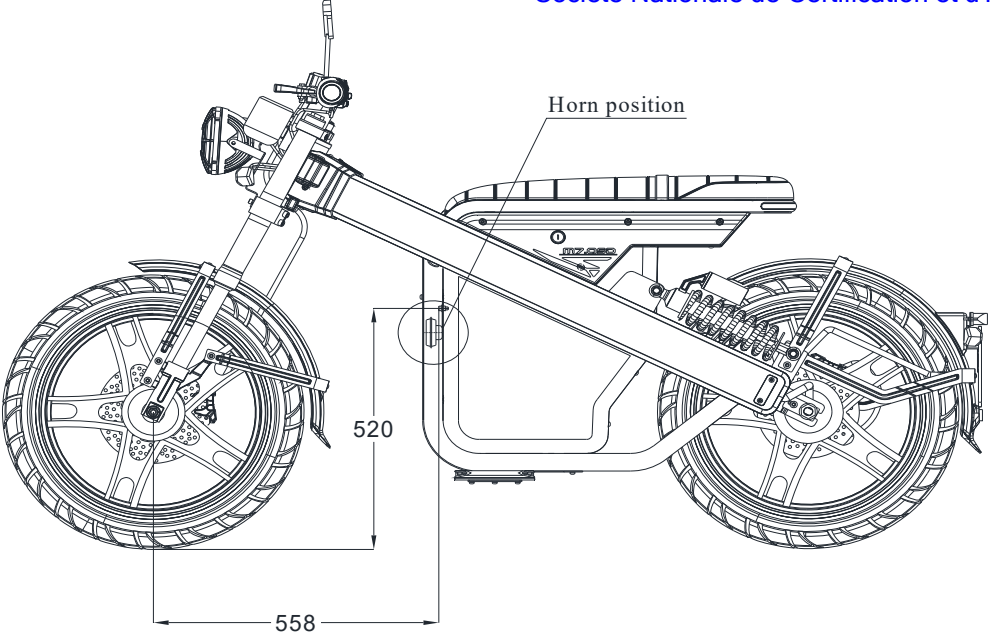


Rear suspension position

Detail :



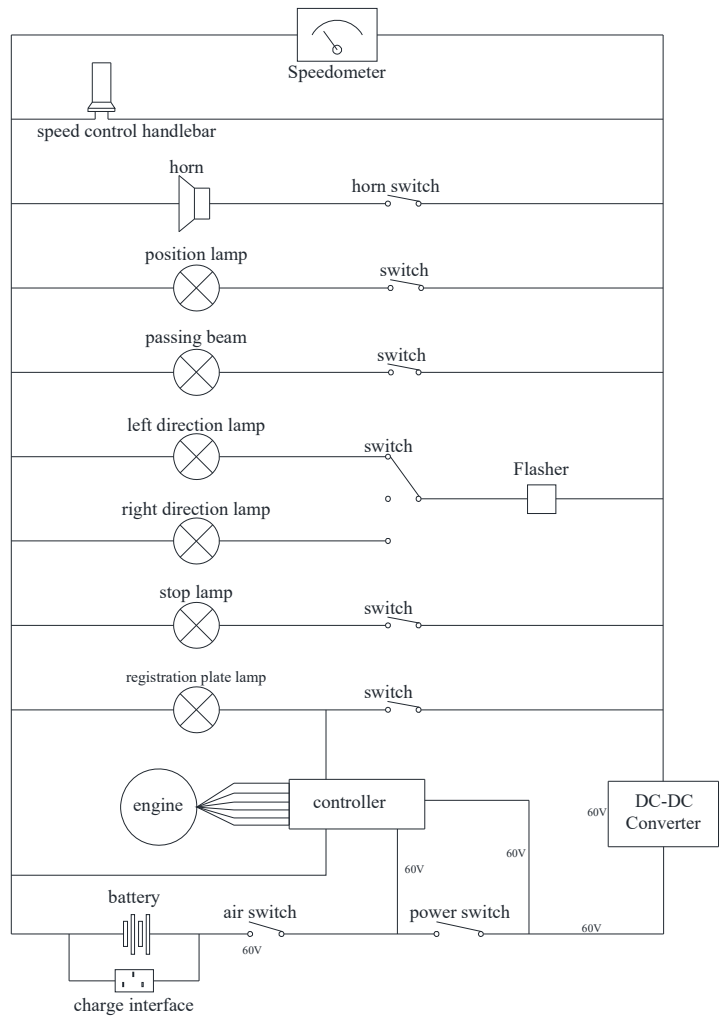
|             |                 |
|-------------|-----------------|
| Title       | Rear suspension |
| Drawing NO. | HM-6-11         |



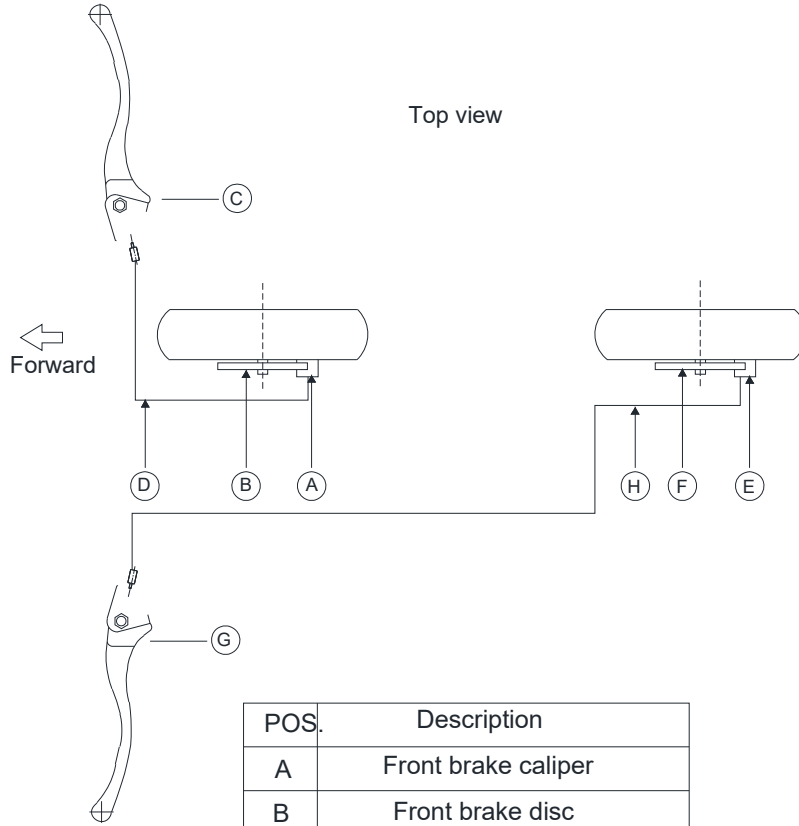
Make: LVEE  
 Type: DL70-II  
 Approval mark: II E32-000002

|             |  |
|-------------|--|
| Title       | Location of The Audible Warning Device |
| Drawing NO. | HM-6-12                                |



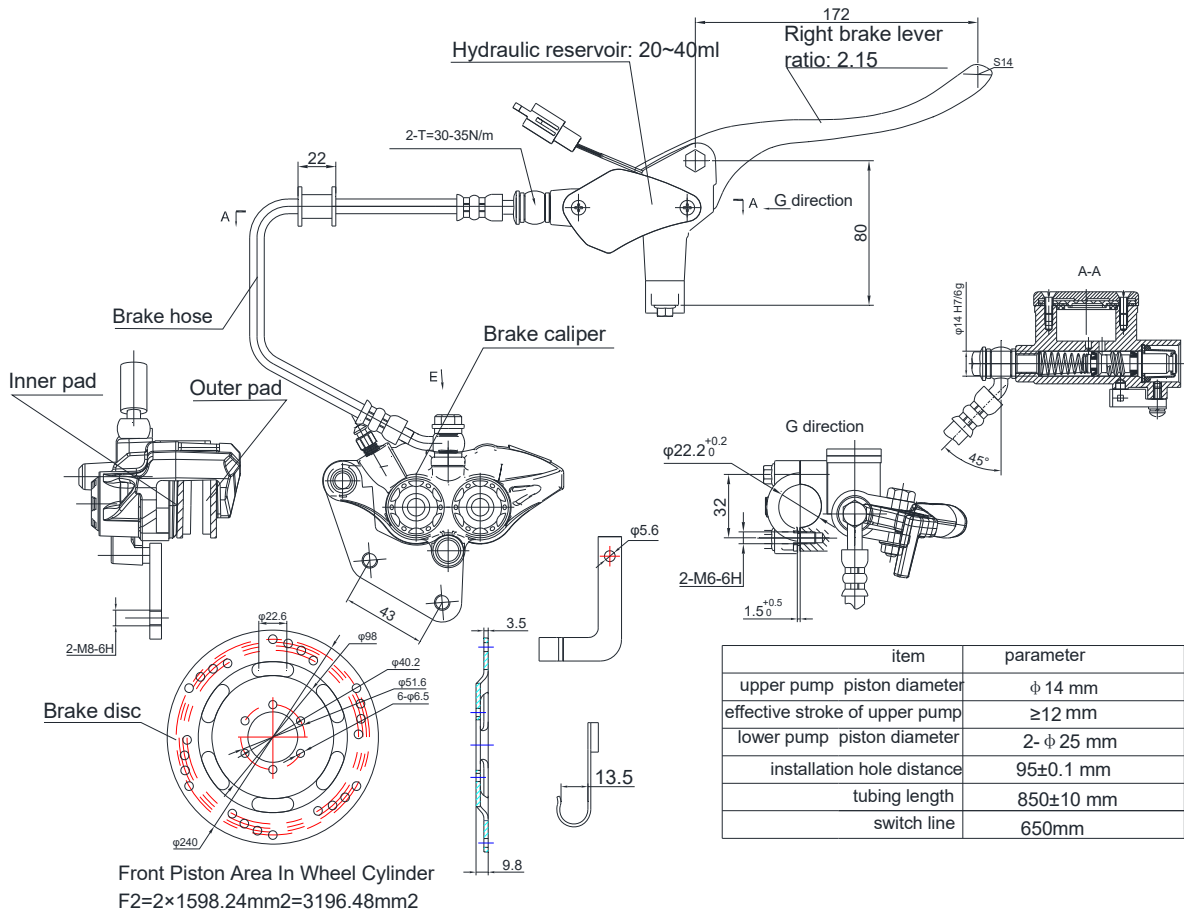


|             |                            |
|-------------|----------------------------|
| Title       | Electrical Circuit Diagram |
| Drawing NO. | HM-6-13                    |



| POS. | Description                 |
|------|-----------------------------|
| A    | Front brake caliper         |
| B    | Front brake disc            |
| C    | Front brake pump with lever |
| D    | Front brake oil pipe        |
| E    | Rear brake caliper          |
| F    | Rear brake disc             |
| G    | Rear brake pump with lever  |
| H    | Rear brake oil pipe         |

|             |              |
|-------------|--------------|
| Title       | Brake System |
| Drawing NO. | HM-6-14      |



front brake system

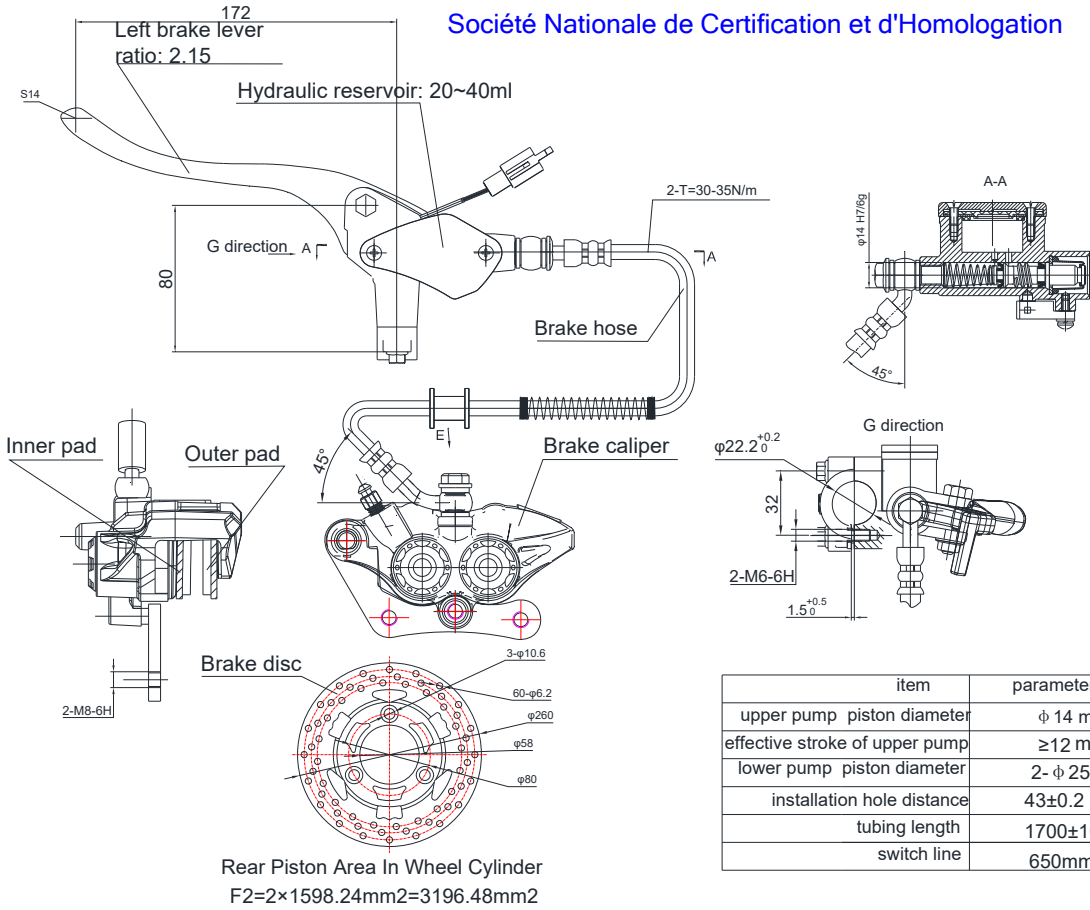
Manufacturer: Ruian Rongyang locomotive parts Co., LTD

Type: ZJL-H7Q

|             |                    |
|-------------|--------------------|
| Title       | Front brake system |
| Drawing NO. | HM-6-14-1          |

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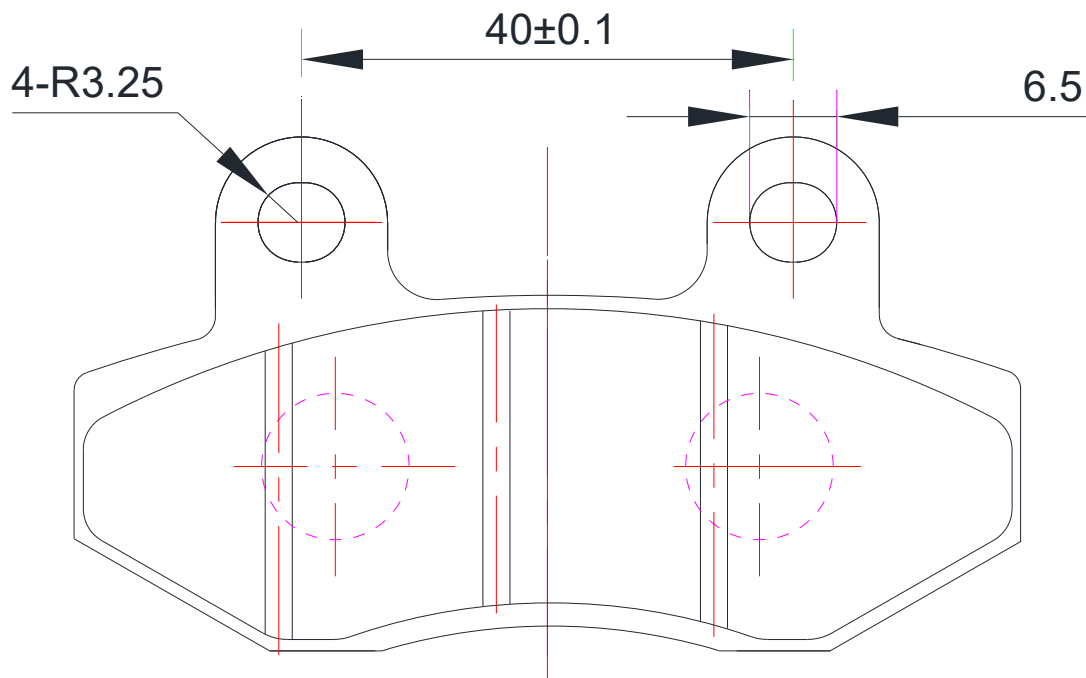


rear brake system

Manufacturer: Ruian Rongyang locomotive parts Co., LTD

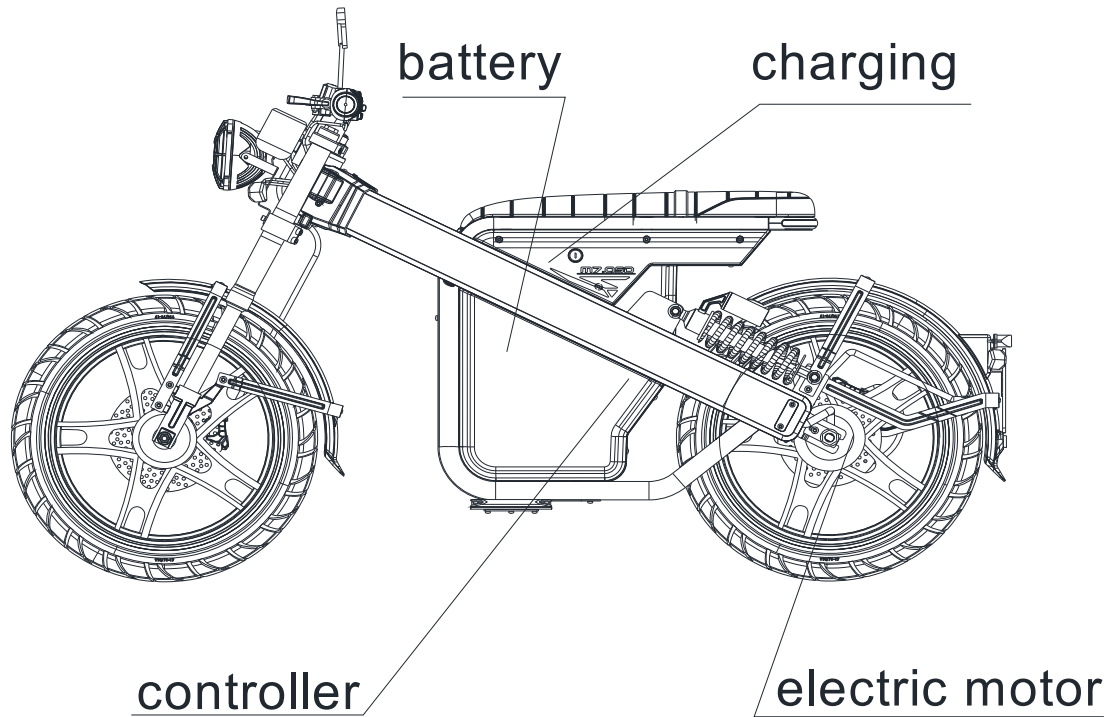
Type: ZJL-H7H

|             |                   |
|-------------|-------------------|
| Title       | Rear brake system |
| Drawing NO. | HM-6-14-2         |



Effective brake area: 3196.48mm<sup>2</sup>  
Manufacturer: Wenzhou Anjie Automobile Distribution Co., Ltd  
Marking: RL8031A  
Material: Metal ceramic, CaSiO<sub>3</sub>  
Asbestos free

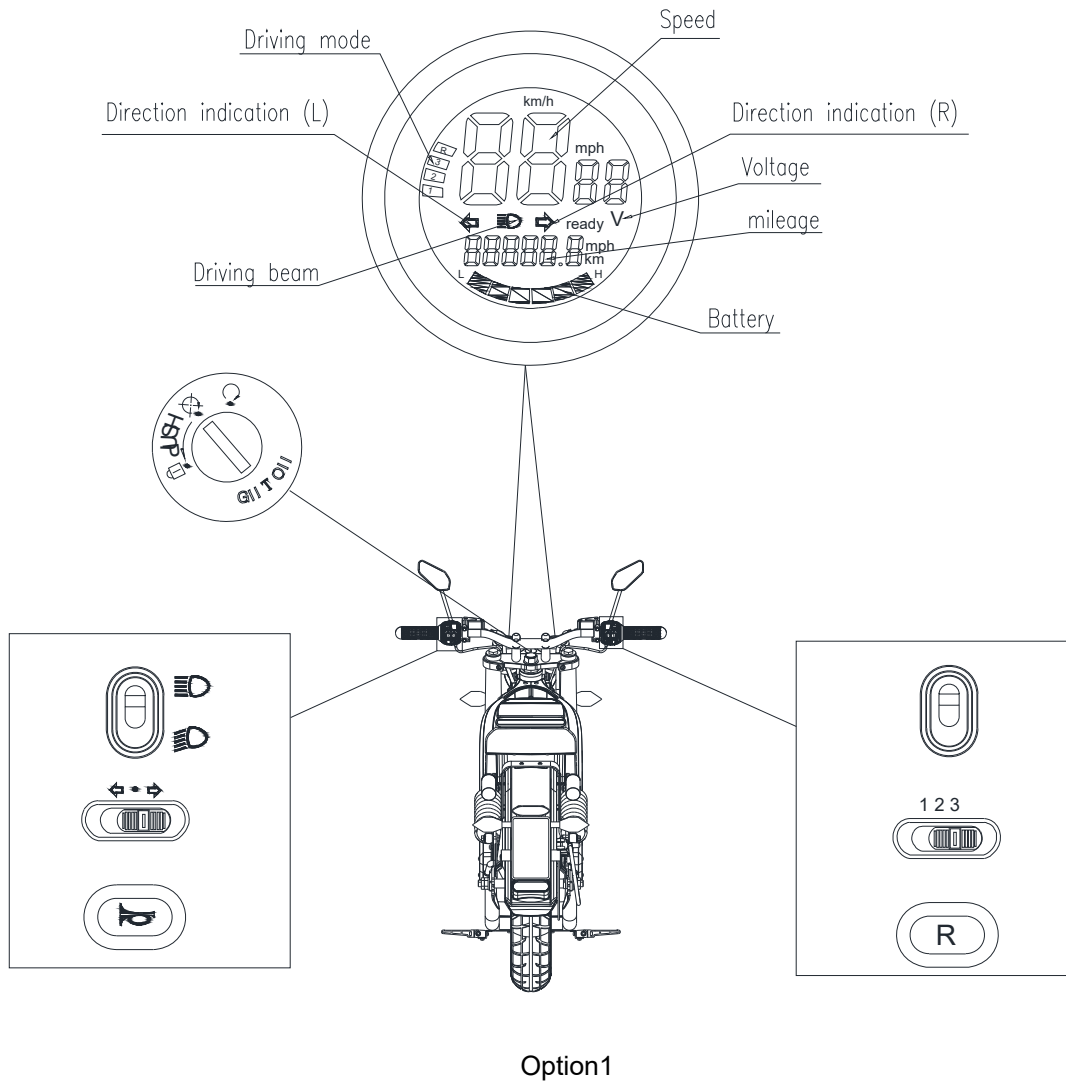
|             |                           |
|-------------|---------------------------|
| Title       | Front and Rear Brake pads |
| Drawing NO. | HM-6-14-3                 |



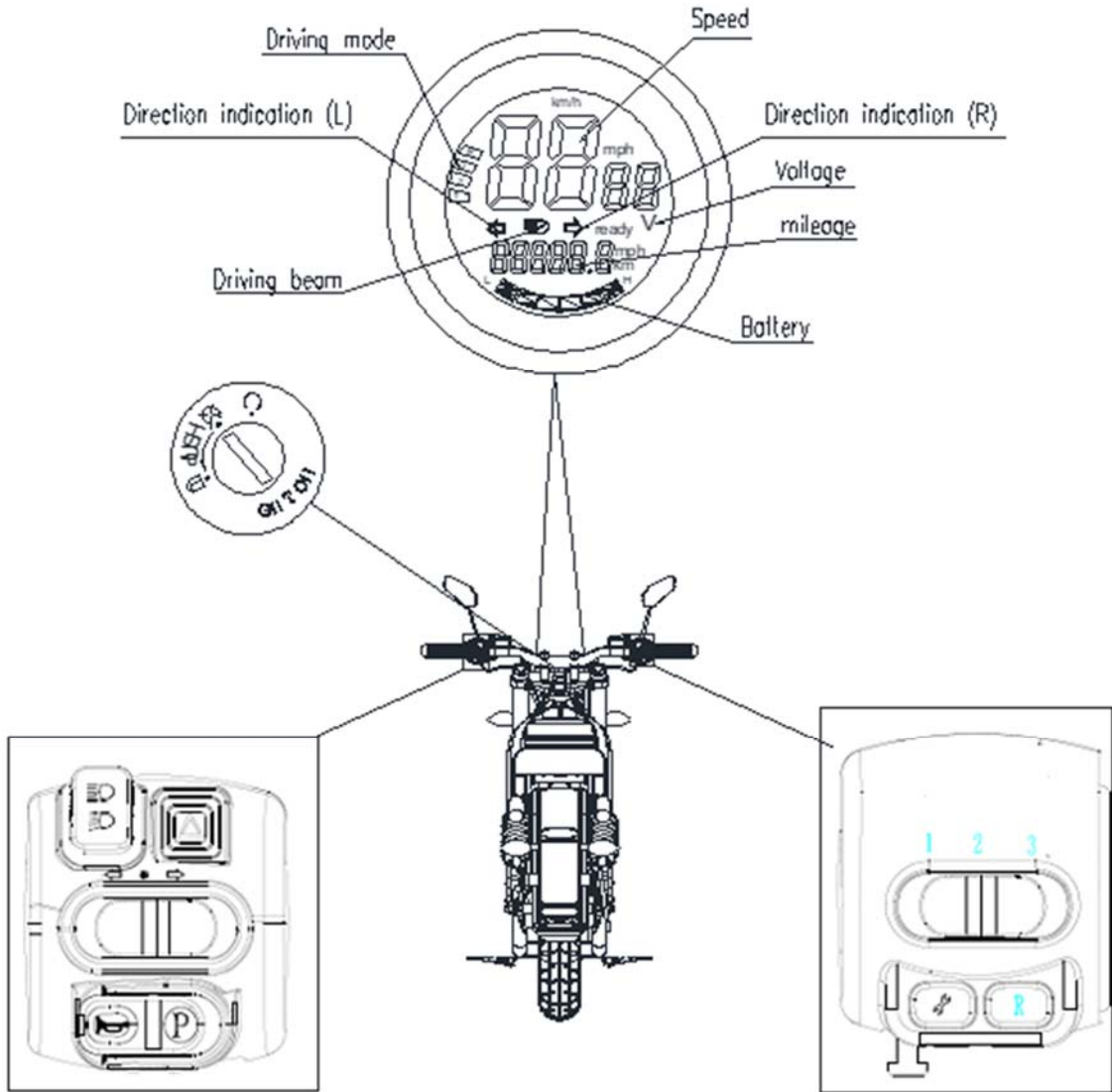
|             |  |
|-------------|--|
| motor:      | make: SHANSU<br>type: HM6SS?????????   |
| battery:    | make: JUBANG<br>type: 18650<br>make: Wuxi Xinge Electrical &<br>Technology Co., Ltd. |
| controller: | type: SS12-60V-YTC /SS12-<br>60V-YTC 25KM/H<br>make: SHANSU                          |
| charger:    | type: HLT-180-672200<br>(60V2A)  |

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|             |                                       |
|-------------|---------------------------------------|
| Title       | Power Circuit Components Installation |
| Drawing NO. | HM-6-15                               |



|             |                                     |
|-------------|-------------------------------------|
| Title       | Controls, Tell-Tales and Indicators |
| Drawing NO. | HM-6-16                             |

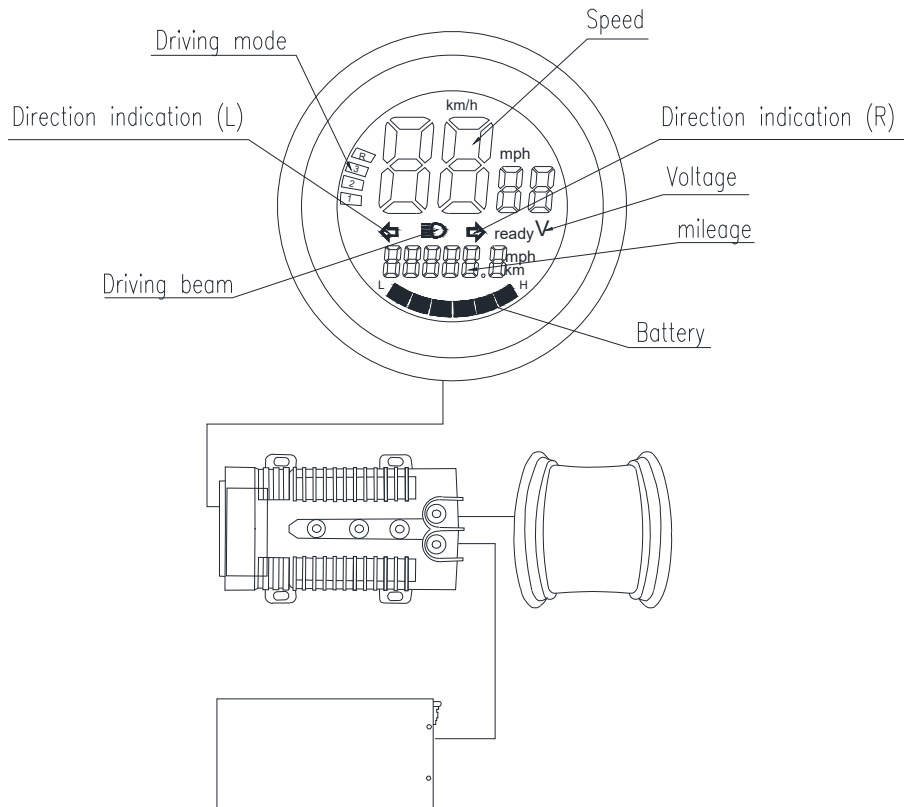


Option 2

|             |                                     |
|-------------|-------------------------------------|
| Title       | Controls, Tell-Tales and Indicators |
| Drawing NO. | HM-6-16-1                           |



Directly connect to the controller.

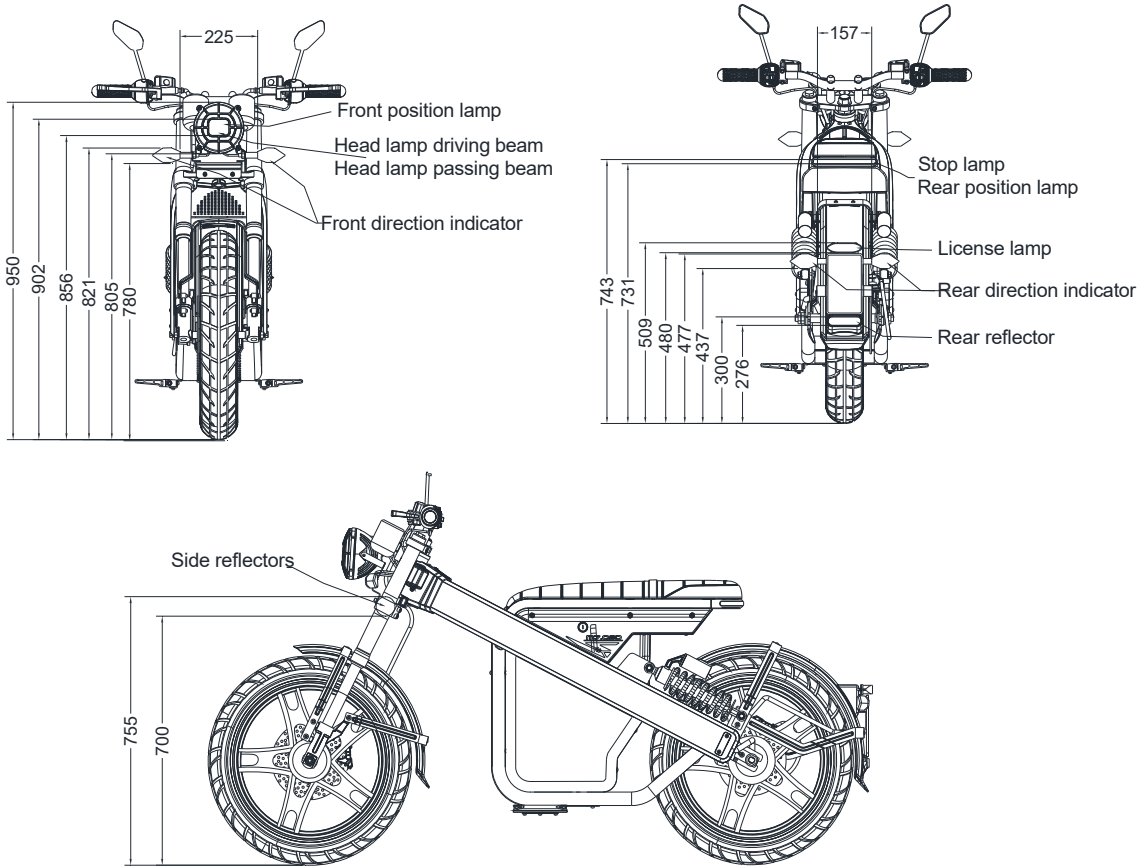


Manufacturer: Luqiao Jingxian Electronics Co., Ltd.  
Type: HL3.0

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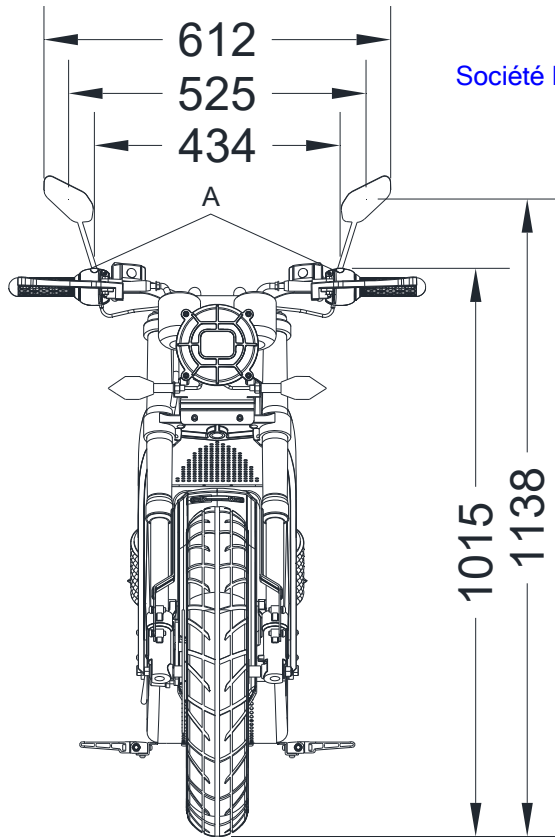
|             |                          |
|-------------|--------------------------|
| Title       | Speedometer and odometer |
| Drawing NO. | HM-6-17                  |

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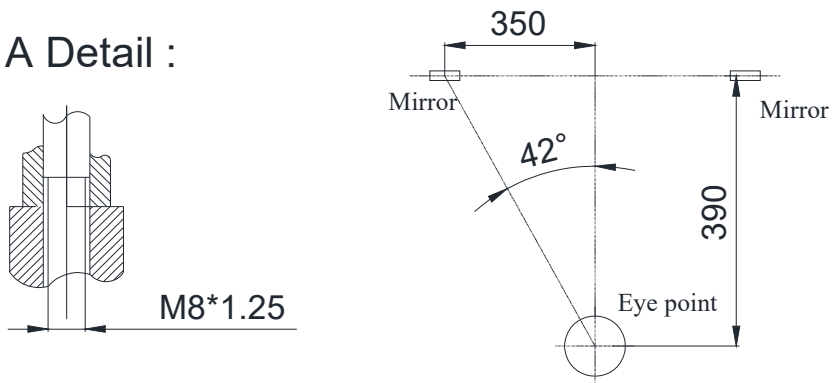


|             |                    |
|-------------|--------------------|
| Title       | Location of Lights |
| Drawing NO. | HM-6-18            |

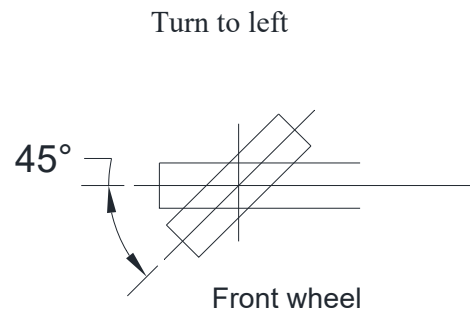
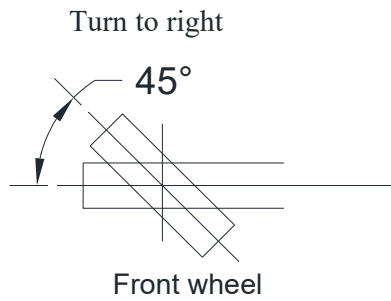
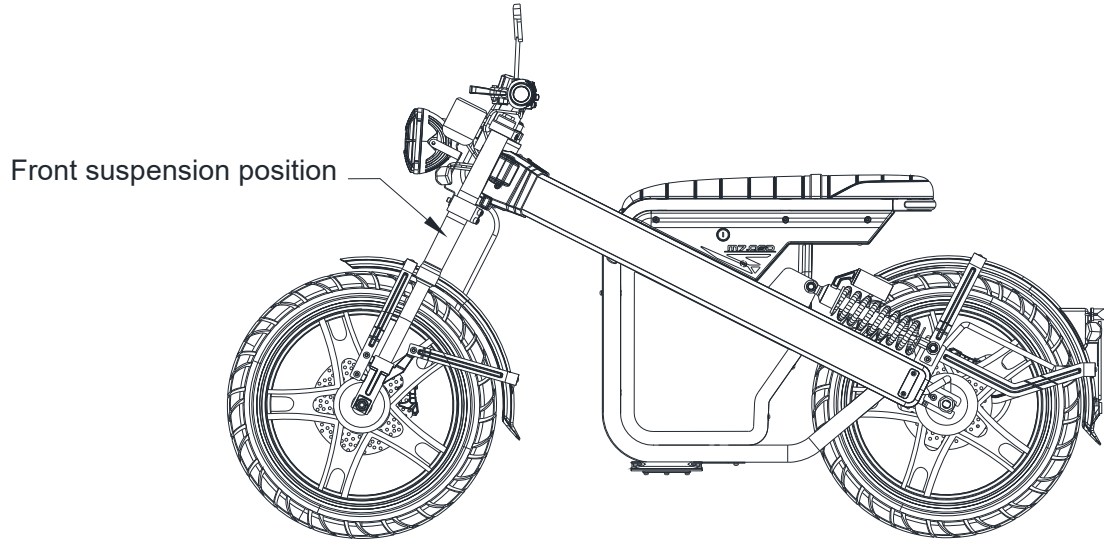
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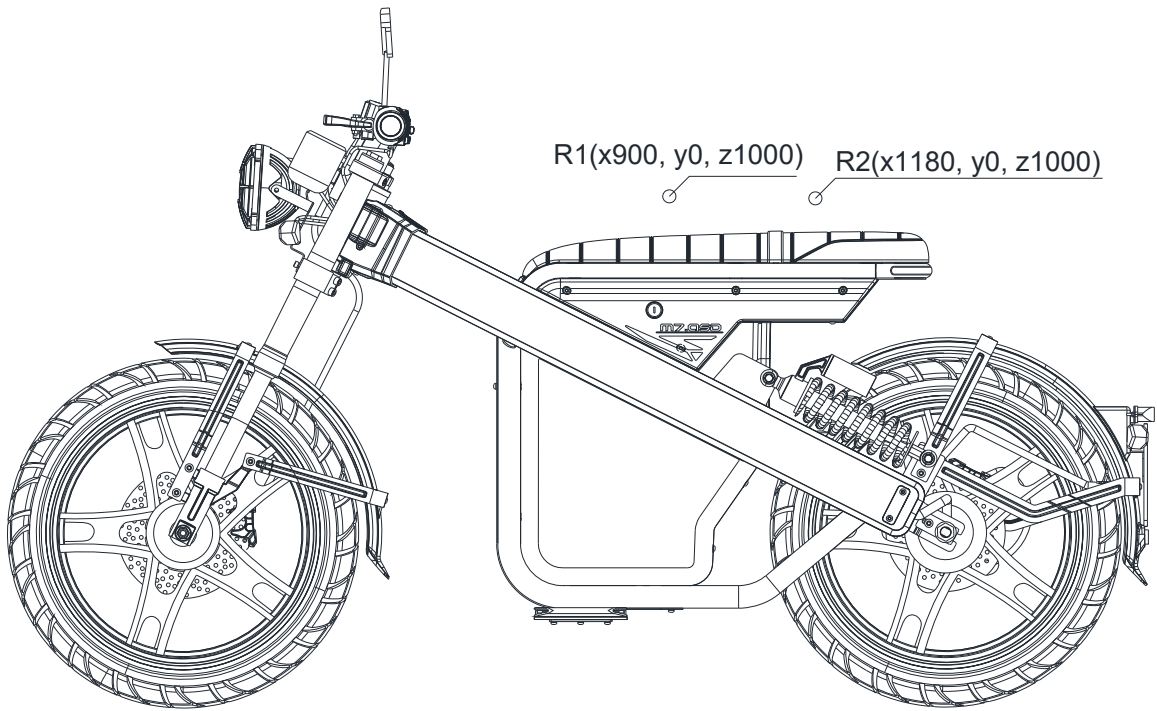
A Detail :



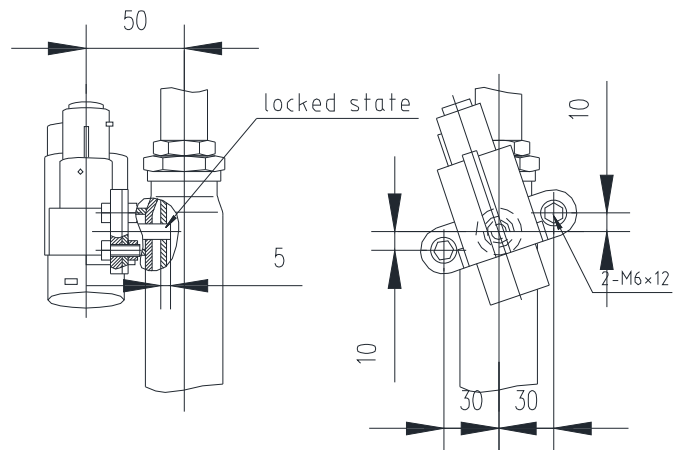
|             |                              |
|-------------|------------------------------|
| Title       | Location of Rear View Mirror |
| Drawing NO. | HM-6-19                      |



|             |                                      |
|-------------|--------------------------------------|
| Title       | Transmission and Control of Steering |
| Drawing NO. | HM-6-20                              |

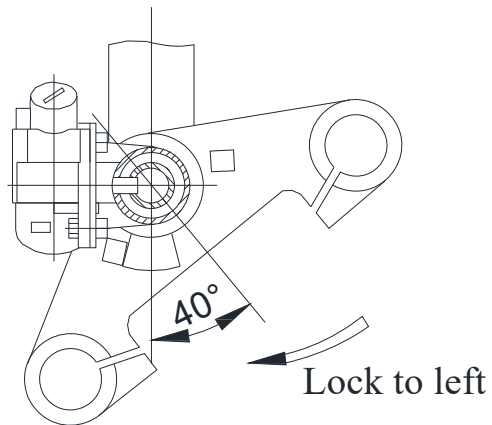
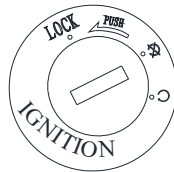


|             |                       |
|-------------|-----------------------|
| Title       | The seats and R point |
| Drawing NO. | HM-6-21               |

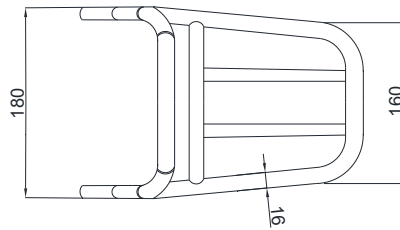
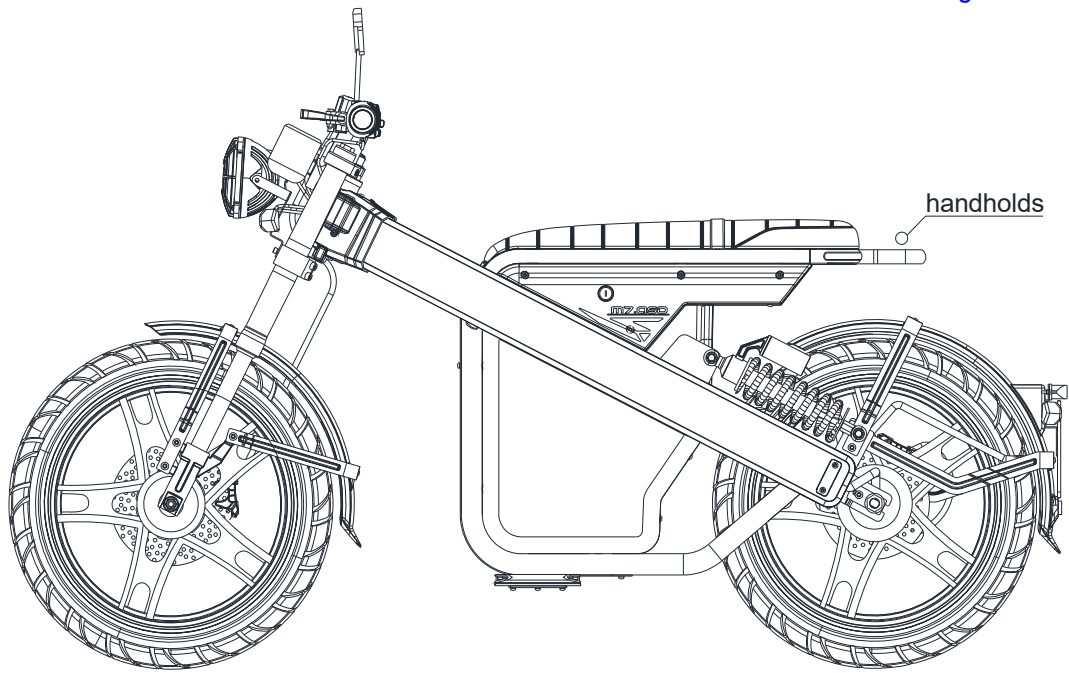


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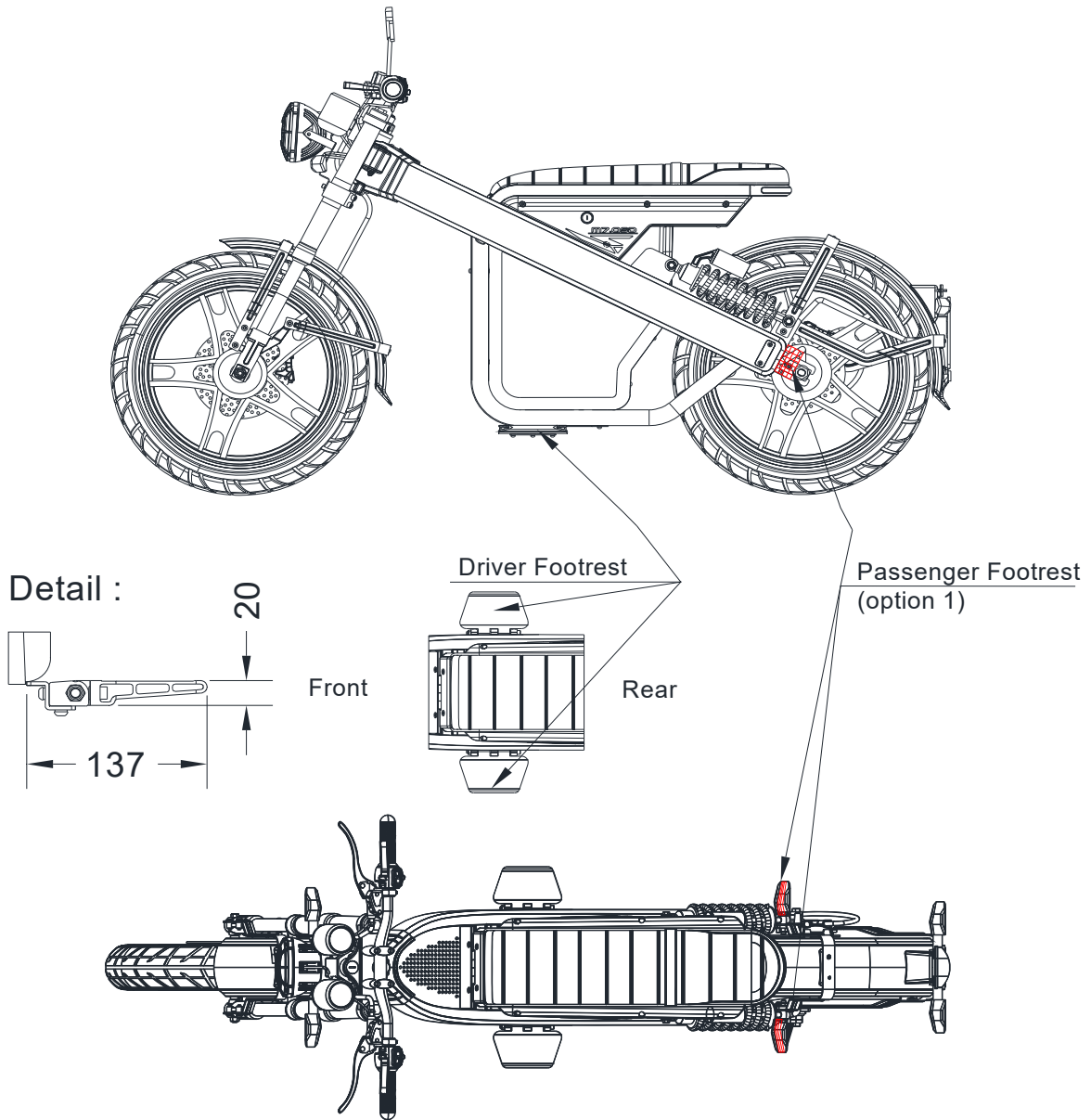
|             |                   |
|-------------|-------------------|
| Title       | Protective Device |
| Drawing NO. | HM-6-22           |



|             |           |
|-------------|-----------|
| Title       | Handholds |
| Drawing NO. | HM-6-23   |

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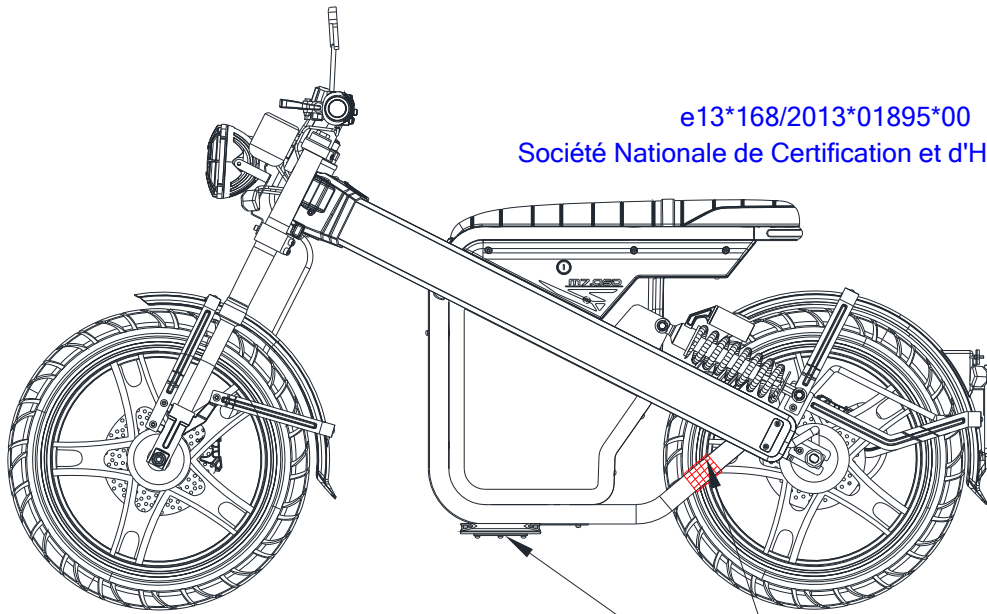
Société Nationale de Certification et d'Homologation



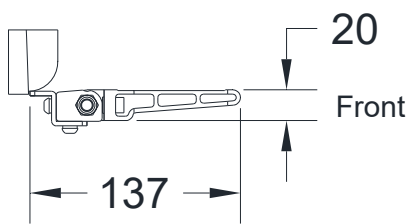
|             |          |
|-------------|----------|
| Title       | Footrest |
| Drawing NO. | HM-6-24  |



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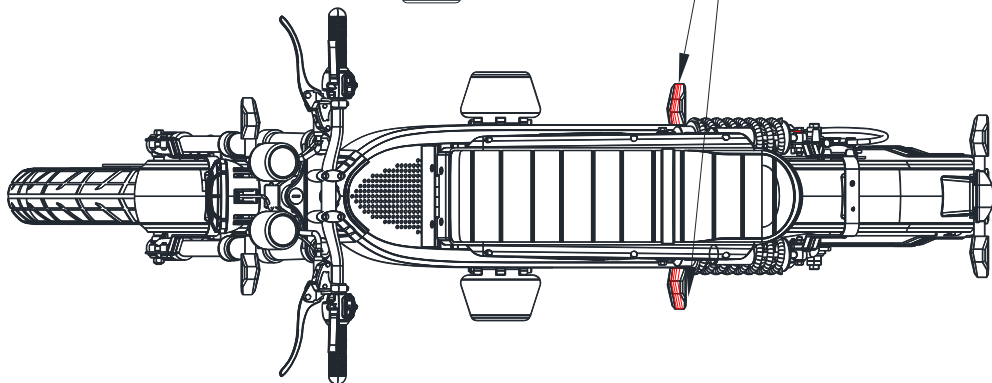
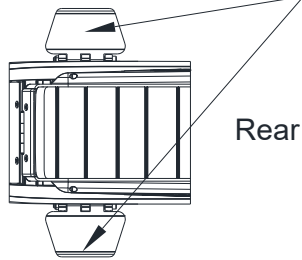


Detail :



Driver Footrest

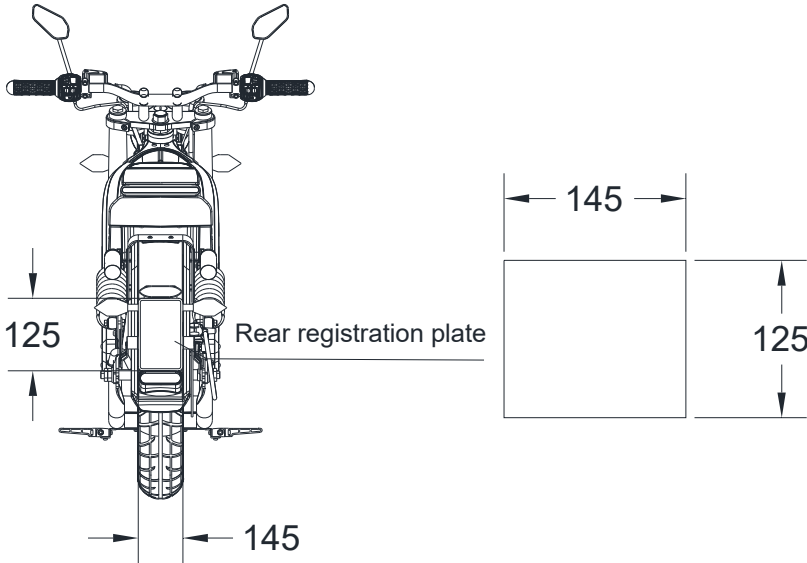
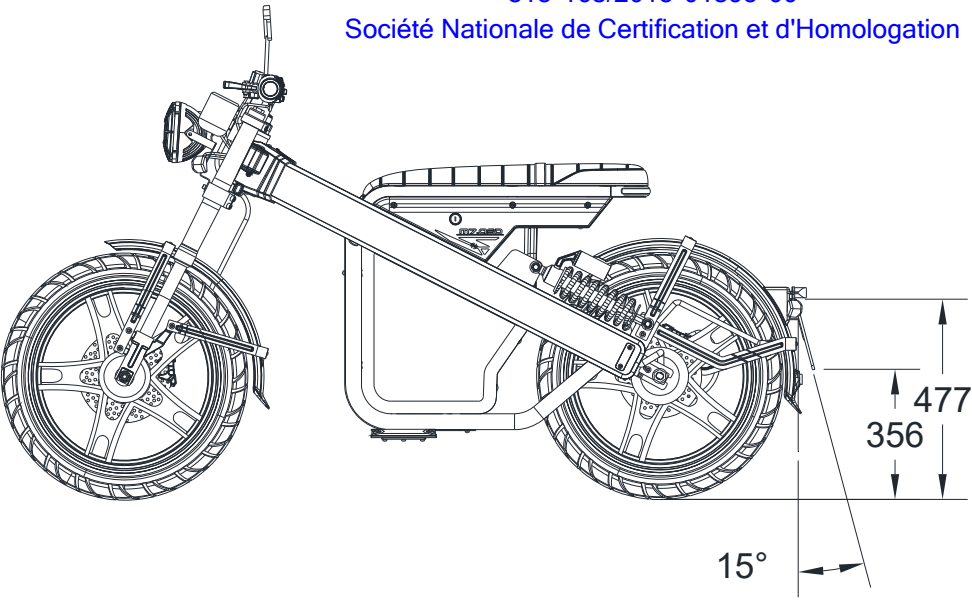
Passenger Footrest  
 (option 2)



Option 2

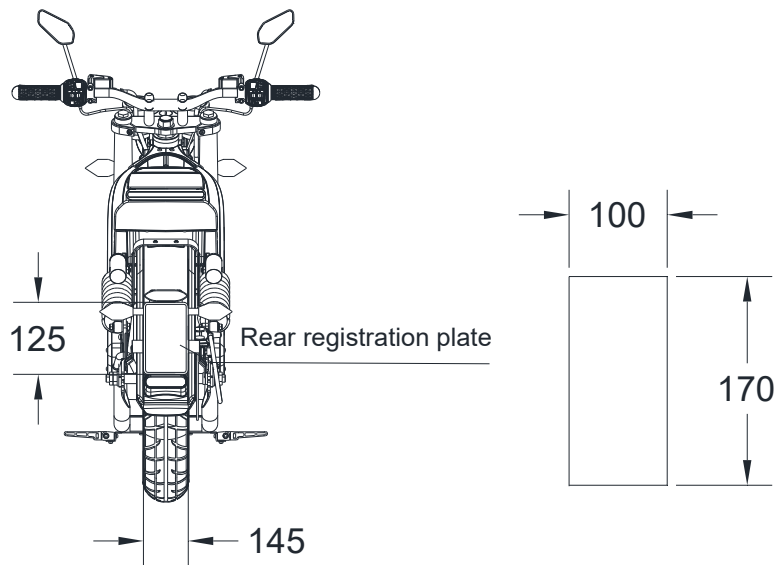
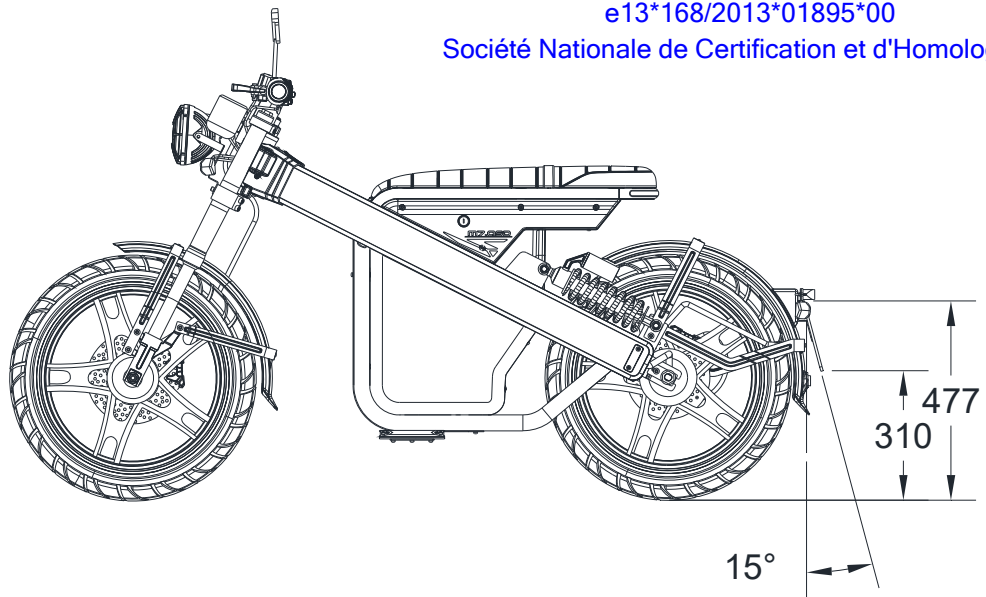
|             |           |
|-------------|-----------|
| Title       | Footrest  |
| Drawing NO. | HM-6-24-1 |

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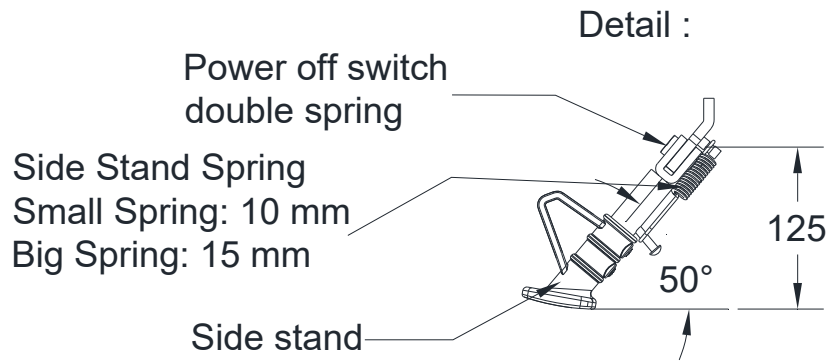
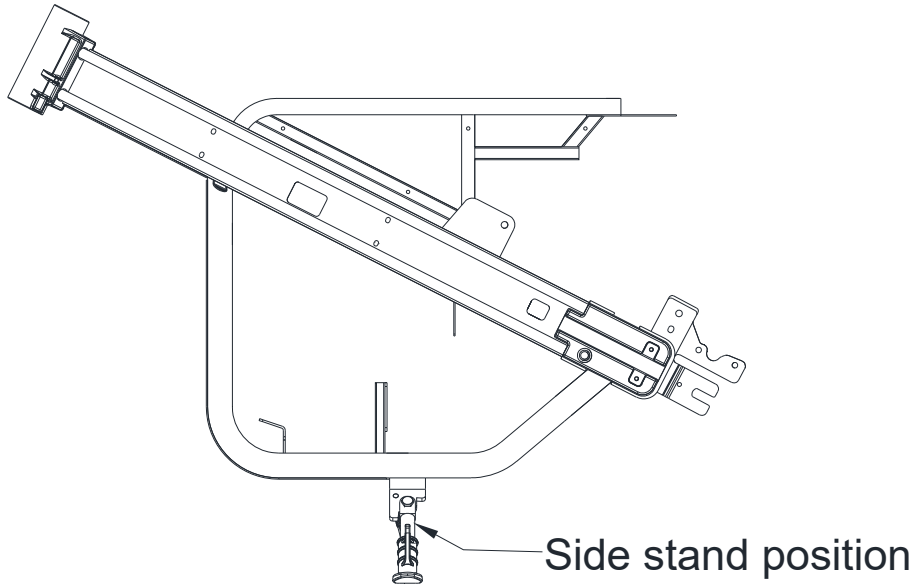
Option 1

|             |                         |
|-------------|-------------------------|
| Title       | Rear Registration Plate |
| Drawing NO. | HM-6-25                 |



Option 2

|             |                         |
|-------------|-------------------------|
| Title       | Rear Registration Plate |
| Drawing NO. | HM-6-25-1               |



|             |            |
|-------------|------------|
| Title       | Side Stand |
| Drawing NO. | HM-6-26    |

|                          |   |                              |
|--------------------------|---|------------------------------|
| Type: HM-6<br>Appendix 5 | ZHEJIANG YIXING INDUSTRY AND TRADE<br>LIMITED | Date: 15.06.2023<br>Ext.: 00 |
|--------------------------|---|------------------------------|

**Manufacturer's statement on endurance testing (Annex V to Commission Delegated Regulation (EU) No 3/2014)**

The undersigned: Wu qiang /general manager

Company name and address of manufacturer:

ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED  
ROOM 2103, 21/F HO KING COMMERCIAL CENTRE NO. 2-16 FA YUAN STREET MONG KOK,  
KOWLOON, HONG KONG

Name and address of the manufacturer's representative (if any):

MINIMOTOS SPORT, S.L.  
C/ LA MITJANA 7 - POLIGONO EL BOCH, CREVILLENT, ALICANTE, SPAIN

Hereby states that the vehicles:

- 0.1. Make (trade name of the manufacturer): SHANSU, Easycool, yuki, HIMOTO, aMoto, CITYCOCO, Rooley, Rooder, Strollwheel, HECHT MOTORS, ZMOTOS, MALCOR IBÉRICA, R RETELLI
- 0.2. Type: HM-6 e13\*168/2013\*01895\*00  
Société Nationale de Certification et d'Homologation
- 0.2.1. Variant(s): 00, 01
- 0.2.2. Version(s): 00
- 0.2.3. Commercial name(s) (if available): electric scooter, Electric motorcycle
- 0.3. Category, subcategory and sub-subcategory of vehicle: L1e-B

for which type-approval is sought shall withstand normal use as intended for at least 16500 km travelled within five years of first registration, taking into account regular and scheduled maintenance and specific equipment adjustments, as described clearly and unambiguously in the instructions manual delivered with the vehicles.

The undersigned furthermore confirms that the endurance of the systems, parts and equipment critical for functional safety is ensured through appropriate testing and the use of good engineering practice.

This declaration has no bearing on any vehicle warranty.

Place: Hong Kong

Date: 15 June 2023

Signature:



Name and position in the company: Wu qiang /general manager

|            |  |                  |
|------------|--|------------------|
| Type: HM-6 | ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED | Date: 15.06.2023 |
| Appendix 6 |  | Ext.: 00         |

**Manufacturer's statement on structure integrity (Annex XIX to Commission Delegated Regulation (EU) No 3/2014)**

The undersigned: Wu qiang /general manager

Company name and address of manufacturer:

e13\*168/2013\*01895\*00  
Société Nationale de Certification et d'Homologation

ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED  
ROOM 2103, 21/F HO KING COMMERCIAL CENTRE NO. 2-16 FA YUAN STREET MONG KOK,  
KOWLOON, HONG KONG

Name and address of the manufacturer's representative (if any):

MINIMOTOS SPORT, S.L.  
C/ LA MITJANA 7 - POLIGONO EL BOCH, CREVILLENT, ALICANTE, SPAIN

Hereby states that the vehicles:


- 0.1. Make (trade name of the manufacturer): SHANSU, Easycool, yuki, HIMOTO, aMoto, CITYCOCO, Rooley, Rooder, Strollwheel, HECHT MOTORS, ZMOTOS, MALCOR IBÉRICA, R RETELLI
- 0.2. Type: HM-6
  - 0.2.1. Variant(s): 00, 01
  - 0.2.2. Version(s): 00
  - 0.2.3. Commercial name(s) (if available): electric scooter, Electric motorcycle
- 0.3. Category, subcategory and sub-subcategory of vehicle: L1e-B

shall be constructed in a proper manner and are designed to be sufficiently robust to withstand the intended use over the vehicle's lifetime, taking into account regular and scheduled maintenance and specific equipment adjustments, as described clearly and unambiguously in the instructions manual delivered with the vehicles.

The undersigned furthermore agrees to and guarantees that specific analyses of vehicle structures, components and/or parts using engineering calculations, virtual testing methods and/or structural testing shall be made available in a timely manner to the approval authority and the European Commission upon request in case of a recall due to a serious safety risk.

This declaration applies to all vehicles covered by the type-approval to which this statement is annexed and has no bearing on any vehicle warranty.

Place: Hong Kong                      Date: 15 June 2023

Signature: 

Name and position in the company: Wu qiang /general manager

|                          |   |                              |
|--------------------------|---|------------------------------|
| Type: HM-6<br>Appendix 7 | ZHEJIANG YIXING INDUSTRY AND TRADE<br>LIMITED | Date: 15.06.2023<br>Ext.: 00 |
|--------------------------|---|------------------------------|

**Manufacturer's certificate on access to ~~vehicle OBD (stage I)~~ and vehicle repair and maintenance information**

Reference number: HM-6-00

The undersigned: Wu qiang /general manager

Company name and address of manufacturer:

ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED  
ROOM 2103, 21/F HO KING COMMERCIAL CENTRE NO. 2-16 FA YUAN STREET MONG KOK,  
KOWLOON, HONG KONG

Name and address of the manufacturer's representative (if any):

MINIMOTOS SPORT, S.L.  
C/ LA MITJANA 7 - POLIGONO EL BOCH, CREVILLENT, ALICANTE, SPAIN

Hereby states that the vehicles:

it provides access to ~~vehicle OBD~~ and vehicle repair and maintenance information in compliance with

- Chapter XV of Regulation (EU) No 168/2013

with respect to the types of vehicle, engine and pollution-control device listed in Addendum 1 to this certificate.

The following derogation is applied: ~~carry-over systems~~.

The principal website addresses, through which the relevant information may be accessed and which are hereby certified to be in compliance with the above provisions, are listed in Addendum 2 to this certificate along with the contact details of the manufacturer's representative listed in Addendum 3 to this certificate, whose signature is below.

Where applicable: The manufacturer hereby also certifies that it has complied with the obligation in Article 57(8) of Regulation (EU) No 168/2013 to provide the relevant information for previous approvals of these vehicle types no later than six months after the date of type-approval.

Place: Hong Kong

Date: 15 June 2023

Signature:



Name and position in the company: Wu qiang /general manager

Addenda:

- 1: List of the types of vehicle, engine and pollution-control device
- 2: Web sites addresses
- 3: Contact details

|                          |   |                              |
|--------------------------|---|------------------------------|
| Type: HM-6<br>Appendix 7 | ZHEJIANG YIXING INDUSTRY AND TRADE<br>LIMITED | Date: 15.06.2023<br>Ext.: 00 |
|--------------------------|---|------------------------------|

Addendum 1  
to

e13\*168/2013\*01895\*00  
Société Nationale de Certification et d'Homologation

Manufacturer's certificate with reference number HM-6-00 on access to ~~vehicle OBD (stage I) and~~  
vehicle repair and maintenance information

List of the types of vehicle:

- 0.2. Type: HM-6
- 0.2.1. Variant(s): 00, 01
- 0.2.2. Version(s): 00
- 0.2.3. Commercial name(s) (if available): electric scooter, Electric motorcycle
- 0.3. Category, subcategory and sub-subcategory of vehicle: L1e-B
- 1. Type-approval number including extension number (if available): N.A.
- 1.1. Type-approval issued on (date, if available): N.A.

List of the types of engines:

- 3. ~~Combustion engine~~/ electric motor/hybrid application code: HM6SS??????????
- 3.1. Type-approval number (if available): N.A.
- 3.2. Type-approval issued on (date, if available): N.A.

List of the types of pollution-control devices:

- 0.7. Make(s) (trade name(s) of manufacturer): N.A.
- 0.8. Type: N.A.
- 0.8.1. Commercial name(s) (if available): N.A.
- 0.8.2. Type-approval number including extension number (if available): N.A.
- 0.8.3. Type-approval issued on (date, if available): N.A.

Addendum 2  
to

Manufacturer's certificate with reference number HM-6-00 on access to ~~vehicle OBD (stage I) and~~  
vehicle repair and maintenance information

Web site addresses referred to in this certificate:  
<http://www.zjshansu.com/>



|                          |   |                              |
|--------------------------|---|------------------------------|
| Type: HM-6<br>Appendix 7 | ZHEJIANG YIXING INDUSTRY AND TRADE<br>LIMITED | Date: 15.06.2023<br>Ext.: 00 |
|--------------------------|---|------------------------------|

e13\*168/2013\*01895\*00

Addendum 3 [Société Nationale de Certification et d'Homologation](#)  
to

Manufacturer's certificate with reference number HM-6-00 on access to ~~vehicle OBD (stage I)~~ and  
vehicle repair and maintenance information

Contact details of the manufacturer's representative referred to in this certificate:

Name and position in the company: ABDELLATIF KHALFI NASIRI

TEL: + 00346763856697

E-mail: [abdulkhalfi@gmail.com](mailto:abdulkhalfi@gmail.com)

**Manufacturer's declaration on powertrain tampering prevention measures  
(anti-tampering)**

1. Vehicle manufacturer's declaration on powertrain tampering prevention measures (anti-tampering):
- not to market interchangeable components which could enable propulsion unit performance to exceed levels applicable to the relevant (sub) category;
  - manufacturer-facilitated modifications shall not increase the propulsion unit performance of the vehicle;
  - modifications and interchangeability of parts and components

Manufacturer's declaration not to market interchangeable components which could enable propulsion unit performance to exceed levels applicable to the relevant (sub) category

- 0.4. Company name and address of manufacturer:

ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED  
ROOM 2103, 21/F HO KING COMMERCIAL CENTRE NO. 2-16 FA YUAN STREET  
MONG KOK, KOWLOON, HONG KONG

- 0.4.2 Name and address of the manufacturer's representative (if any):

MINIMOTOS SPORT, S.L.  
C/ LA MITJANA 7 - POLIGONO EL BOCH, CREVILLENT, ALICANTE, SPAIN

Hereby declares that:

For the L1e/L2e, (L3e/L4e)-A1/(L3e/L4e)-A2/L6e/L7e category vehicle:

- 0.1. Make (trade name of the manufacturer): SHANSU, Easycool, yuki, HIMOTO, aMoto, CITYCOCO, Rooley, Rooder, Strollwheel, HECHT MOTORS, ZMOTOS, MALCOR IBÉRICA, R RETELLI

e13\*168/2013\*01895\*00

- 0.2. Type: HM-6 Société Nationale de Certification et d'Homologation

- 0.2.1. Variant(s): 00, 01

- 0.2.2. Version(s): 00

- 0.2.3. Commercial name(s) (if available): electric scooter, Electric motorcycle

- 0.3. Category, subcategory and sub-subcategory of vehicle: L1e-B

Will not market interchangeable components which could enable propulsion unit performance to exceed levels applicable to the relevant (sub) category;

and that

The manufacturer-facilitated modifications of the following characteristics:

- ~~(a) spark delivery of the ignition system if applicable;~~
- ~~(b) fuel feed and delivery system;~~
- ~~(c) air intake system including air filter(s) (modification or removal);~~

- (d) propulsion battery configuration or electric power to the electric motor(s) if applicable;
- (e) drive-train;
- (f) and the control unit(s) that control(s) the propulsion unit performance of the powertrain.

shall comply with the requirements set out in point 2.6. of Annex II to Commission Delegated Regulation (EU) No 44/2014

~~For L3e-A2/L4e-A2/L7e category vehicles the manufacturer~~

~~declares that:~~

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~~The modifications and interchangeability of:~~

- ~~(a) spark delivery of the ignition system, if applicable;~~
- ~~(b) fuel feed and delivery system;~~
- ~~(c) air intake system including air filter(s) (modification or removal);~~
- ~~(d) the drive train;~~
- ~~(e) the control unit(s) for the propulsion unit performance of the powertrain;~~
- ~~(f) removal of any component (mechanical, electrical, structural, etc.) which limits full engine load, leading to any change in the propulsion unit performance as approved in accordance with Annex II (A) to Regulation (EU) No 168/2013~~

~~shall comply with the requirements set out in point 5.2 of Annex II to Commission Delegated Regulation (EU) No 44/2014~~

Place: Hong Kong

Date: 15 June 2023



Signature:


Name and position in the company: Wu qiang /general manager

## Statement Concerning Authority of Signature on COC Paper

We, ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED. declare that the undersigned persons will be the authorized person to sign the COC paper of the vehicle.

Type: HM-6

Specification of signature of COC:

| Name     | Position        | Signature   |
|----------|-----------------|---|
| Wu qiang | general manager |  |

ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED  
Place: Hong Kong  
Date: 15.06.2023

# COMPLETE VEHICLE EU CERTIFICATE OF COMFORMITY

The undersigned, Wu qiang < General Manager >  
Hereby certifies that the following complete vehicle:

- 0.1. Make (trade name of the manufacturer): SHANSU, Easycool, yuki, HIMOTO, aMoto, CITYCOCO, Rooley, Rooder, Strollwheel, HECHT MOTORS, ZMOTOS, MALCOR IBÉRICA, R RETELLI
- 0.2. Type: HM-6
- 0.2.1. Variant: 00
- 0.2.2. Version: 00
- 0.2.3. Commercial name (if available): electric scooter, Electric motorcycle
- 0.3. Category, subcategory and sub-subcategory of vehicle: L1e-B
- 0.4. Company name and address of manufacturer:  
ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED  
ROOM 2103,21/F HO KING COMMERCIAL CENTRE NO. 2-16 FA YUEN STREET MONG KOK, KOWLOON HONG KONG
- 0.4.2. Name and address of manufacturer's authorized representative (if any):  
MINIMOTOS SPORT, S.L.  
C/ LA MITJANA 7 - POLIGONO EL BOCH, CREVILLENT, ALICANTE, SPAIN
- 0.5.1. Location of the manufacturer's statutory plate(s): R, x 550, y 50, z 575
- 0.5.2. Method of attachment of the manufacturer's statutory plate(s): Riveted
- 0.6. Location of the vehicle identification number: R, x 310, y 30, z 840
- 1. Vehicle identification number: ☆R68HM600????????☆

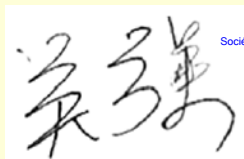
conforms in all respects to the type described in EU type-approval (e13\*168/2013\*????\*00 type-approval number including extension number) issued on (DD, MM, YYYY date of issue) and can be permanently registered in Member States having right/left-hand traffic and using metric/imperial units for the speedometer.

Hong Kong, China

DD, MM, YYYY

(place)

(date)



e13\*168/2013\*01895\*00  
Société Nationale de Certification et d'Homologation

(signature)

## General construction characteristics

- 1.3. Number of axles: 2 and wheels: 2
- 1.3.1. Axles with twinned wheels: N.A.
- 1.3.2. Powered axles: R
- 6.2.4. Advanced braking system: ~~ABS / CBS / Both ABS and CBS~~ / None

## Main dimensions

- 2.2.1. Length: 1950 mm
- 2.2.2. Width: 840 mm
- 2.2.3. Height: 1090 mm
- 2.2.4. Wheelbase: 1320 mm
- 2.2.4.1. Wheelbase sidecar: N.A.
- 2.2.5. Track width
- 2.2.5.1. Track width front: N.A.
- 2.2.5.2. Track width rear: N.A.
- 2.2.5.3. Track width sidecar: N.A.
- 2.2.10.6 Ground clearance between the axles: N.A.
- 2.2.15. Wheelbase to ground clearance ratio: N.A.
- 2.2.17. Seat height: N.A.

## Masses

- 2.1.1. Mass in running order: 92 kg
- 2.1.2. Actual mass: 182 kg
- 2.1.3. Technically permissible maximum laden mass: 257 kg
- 2.1.3.1. Technically permissible maximum mass on front axle: 87 kg
- 2.1.3.2. Technically permissible maximum mass on rear axle: 170 kg
- 2.1.3.3. Technically permissible maximum mass on sidecar axle: N.A.
- 2.1.7. Technically permissible maximum towable mass:
- Braked: N.A. Unbraked: N.A.
- 2.1.7.1. Technically permissible maximum laden mass of the combination: N.A.
- 2.1.7.2. Technically permissible maximum mass at the coupling point: N.A.

## Powertrain

- 3.1.1.1. Manufacturer: N.A.
- 3.1.1.2. Engine code (as marked on the engine or other means of identification): N.A.
- 3.2.1.2. Working principle of the combustion engine: ~~internal combustion engine (ICE)/positive ignition/ compression ignition/external combustion engine (ECE)/turbine/compressed air~~ - N.A.
- 3.2.1.4.1. Number of cylinders: N.A.
- 3.2.1.4.2. Arrangement of cylinders: ~~H/V/O/S~~ N.A.
- 3.2.1.5. Engine capacity: N.A.
- 1.9. Maximum net power: N.A.
- 1.10. Ratio maximum net power/mass of the vehicle in running order: N.A.
- 3.2.3.1. Fuel type: N.A.
- 3.2.3.2. Vehicle fuel combination: ~~mono fuel/bi fuel/flex fuel~~ N.A.
- 3.2.3.2.1. Maximum amount of bio-fuel acceptable in fuel: N.A.
- 3.1.2.1. Manufacturer: Yongkang Changpao Industry and Trade Co., Ltd.
- 3.1.2.2. Electric motor code (as marked on the engine or other means of identification): HM6SS????????

3.3.3.4. ~~15~~/30 minutes power: 3.0 kW  
 3.1.3.1. Manufacturer: N.A.  
 3.1.3.2. Application code (as marked on the engine or other means of identification): N.A.  
 3.3.1. Electric vehicle configuration: ~~pure electric/hybrid electric/manpower electric~~  
 3.3.5.2. Category of hybrid electric vehicle: ~~off vehicle charging/hot off vehicle charging~~ N.A.  
 3.9.2. Maximum assistance factor: N.A.

#### Maximum speed

1.8. Maximum speed of vehicle: 45 km/h  
 3.9.3. Maximum vehicle speed for which the electric motor gives assistance: N.A.

#### Drive-train and control

3.5.3.9. Transmission (type): W  
 3.5.4. Gear ratios: N.A.  
 3.5.4.1. Final drive ratio: N.A.  
 3.5.4.2. Overall gear ratio in highest gear: N.A.

#### Installation of tyres

6.18.1.1. Tyre size designation:  
 Front tyre: 110/70-17 M/C 54S 3.00x17 250 kPa  
 Rear tyre: 120/80-17 M/C 61P 2.75X17 225 kPa  
 Sidecar wheel: N.A.

#### Bodywork

6.20.2.1. Door configuration and number of doors: N.A.  
 6.16.1. Number of seating positions: 2  
 6.16.1.1. Location and arrangement: N.A.

#### Coupling devices

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 Société Nationale de Certification et d'Homologation

7.2.8. Type-approval number of coupling-device: N.A.

#### Environmental performance

4.0.1. Environmental step: Euro 5  
 4.0.6. Sound level measured according to: N.A.  
 4.0.6.1. Stationary: N.A. at engine speed: N.A.  
 4.0.6.2. Drive-by: N.A.  
 4.0.6.3. Limit value for Lurban: N.A.

3.2.15. Exhaust emissions measured according to Regulation (EU) No 134/2014 including all amendments up to (EU) 2018/295  
 3.2.15.1. Type I test: tailpipe emissions after cold start, including the deterioration factor, if applicable:

CO : N.A.  
 THC : N.A.  
 NMHC : N.A.  
 NOx : N.A.  
 THC+NOx : N.A.  
 PM : N.A.

3.2.15.2. Type II test: tailpipe emissions at (increased) idle and free acceleration:  
 HC: N.A.  
 CO: N.A.

3.2.15.3. Smoke corrected absorption coefficient: N.A.

#### Energy efficiency

4.0.2. Fuel consumption: N.A.  
 4.0.3. CO<sub>2</sub> emissions: N.A.  
 4.0.4. Energy consumption: 45 Wh/km  
 4.0.5. Electric range: 52 km

#### Conversion of the performance of the vehicle:

8.1. Vehicle appropriate for converting its performance level between subcategories (L3e/L4e)-A2 and (L3e/L4e)-A3 and vice versa: ~~yes/no~~ N.A.

#### Additional information:

9.1. Remarks: N.A.  
 9.2. Exemptions: N.A.



# COMPLETE VEHICLE EU CERTIFICATE OF COMFORMITY

The undersigned, Wu qiang < General Manager >  
Hereby certifies that the following complete vehicle:

- 0.3. Make (trade name of the manufacturer): SHANSU, Easycool, yuki, HIMOTO, aMoto, CITYCOCO, Rooley, Rooder, Strollwheel, HECHT MOTORS, ZMOTOS, MALCOR IBÉRICA, R RETELLI
- 0.4. Type: HM-6
- 0.2.1. Variant: 01
- 0.2.2. Version: 00
- 0.2.3. Commercial name (if available): electric scooter, Electric motorcycle
- 0.3. Category, subcategory and sub-subcategory of vehicle: L1e-B
- 0.4. Company name and address of manufacturer:  
ZHEJIANG YIXING INDUSTRY AND TRADE LIMITED  
ROOM 2103,21/F HO KING COMMERCIAL CENTRE NO. 2-16 FA YUEN STREET MONG KOK, KOWLOON HONG KONG
- 0.4.2. Name and address of manufacturer's authorized representative (if any):  
MINIMOTOS SPORT, S.L.  
C/ LA MITJANA 7 - POLIGONO EL BOCH, CREVILLENT, ALICANTE, SPAIN
- 0.5.1. Location of the manufacturer's statutory plate(s): R, x 550, y 50, z 575
- 0.5.2. Method of attachment of the manufacturer's statutory plate(s): Riveted
- 0.6. Location of the vehicle identification number: R, x 310, y 30, z 840
1. Vehicle identification number: ☆R68HM601????????☆

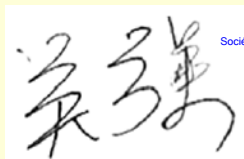
conforms in all respects to the type described in EU type-approval (e13\*168/2013\*????\*00 type-approval number including extension number) issued on (DD, MM, YYYY date of issue) and can be permanently registered in Member States having right/left-hand traffic and using metric/imperial units for the speedometer.

Hong Kong, China

DD, MM, YYYY

(place)

(date)



e13\*168/2013\*01895\*00  
Société Nationale de Certification et d'Homologation

(signature)

## General construction characteristics

- 1.3. Number of axles: 2 and wheels: 2
- 1.3.1. Axles with twinned wheels: N.A.
- 1.3.2. Powered axles: R
- 6.2.4. Advanced braking system: ~~ABS / CBS / Both ABS and CBS~~ / None

## Main dimensions

- 2.2.1. Length: 1950 mm
- 2.2.2. Width: 840 mm
- 2.2.3. Height: 1090 mm
- 2.2.4. Wheelbase: 1320 mm
- 2.2.4.1. Wheelbase sidecar: N.A.
- 2.2.5. Track width
- 2.2.5.1. Track width front: N.A.
- 2.2.5.2. Track width rear: N.A.
- 2.2.5.3. Track width sidecar: N.A.
- 2.2.10.6. Ground clearance between the axles: N.A.
- 2.2.15. Wheelbase to ground clearance ratio: N.A.
- 2.2.17. Seat height: N.A.

## Masses

- 2.1.1. Mass in running order: 92 kg
- 2.1.2. Actual mass: 182 kg
- 2.1.3. Technically permissible maximum laden mass: 257 kg
- 2.1.3.1. Technically permissible maximum mass on front axle: 87 kg
- 2.1.3.2. Technically permissible maximum mass on rear axle: 170 kg
- 2.1.3.3. Technically permissible maximum mass on sidecar axle: N.A.
- 2.1.7. Technically permissible maximum towable mass:
- Braked: N.A. Unbraked: N.A.
- 2.1.7.1. Technically permissible maximum laden mass of the combination: N.A.
- 2.1.7.2. Technically permissible maximum mass at the coupling point: N.A.

## Powertrain

- 3.1.1.1. Manufacturer: N.A.
- 3.1.1.2. Engine code (as marked on the engine or other means of identification): N.A.
- 3.2.1.2. Working principle of the combustion engine: ~~internal combustion engine (ICE)/positive ignition/ compression ignition/external combustion engine (ECE)/turbine/compressed air~~ - N.A.
- 3.2.1.4.1. Number of cylinders: N.A.
- 3.2.1.4.2. Arrangement of cylinders: ~~H/V/O/S~~ N.A.
- 3.2.1.5. Engine capacity: N.A.
- 1.9. Maximum net power: N.A.
- 1.10. Ratio maximum net power/mass of the vehicle in running order: N.A.
- 3.2.3.1. Fuel type: N.A.
- 3.2.3.2. Vehicle fuel combination: ~~mono fuel/bi fuel/flex fuel~~ N.A.
- 3.2.3.2.1. Maximum amount of bio-fuel acceptable in fuel: N.A.
- 3.1.2.1. Manufacturer: Yongkang Changpao Industry and Trade Co., Ltd.
- 3.1.2.2. Electric motor code (as marked on the engine or other means of identification): HM6SS????????

3.3.3.4. ~~15~~/30 minutes power: 3.0 kW  
 3.1.3.1. Manufacturer: N.A.  
 3.1.3.2. Application code (as marked on the engine or other means of identification): N.A.  
 3.3.1. Electric vehicle configuration: ~~pure electric/hybrid electric/manpower electric~~  
 3.3.5.2. Category of hybrid electric vehicle: ~~off vehicle charging/hot off vehicle charging~~ N.A.  
 3.9.2. Maximum assistance factor: N.A.

#### Maximum speed

1.8. Maximum speed of vehicle: 25 km/h  
 3.9.3. Maximum vehicle speed for which the electric motor gives assistance: N.A.

#### Drive-train and control

3.5.3.9. Transmission (type): W  
 3.5.4. Gear ratios: N.A.  
 3.5.4.1. Final drive ratio: N.A.  
 3.5.4.2. Overall gear ratio in highest gear: N.A.

#### Installation of tyres

6.18.1.1. Tyre size designation:  
 Front tyre: 110/70-17 M/C 54S 3.00x17 250 kPa  
 Rear tyre: 120/80-17 M/C 61P 2.75X17 225 kPa  
 Sidecar wheel: N.A.

#### Bodywork

6.20.2.1. Door configuration and number of doors: N.A.  
 6.16.1. Number of seating positions: 2  
 6.16.1.1. Location and arrangement: N.A.

#### Coupling devices

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 Société Nationale de Certification et d'Homologation

7.2.8. Type-approval number of coupling-device: N.A.

#### Environmental performance

4.0.1. Environmental step: Euro 5  
 4.0.6. Sound level measured according to: N.A.  
 4.0.6.1. Stationary: N.A. at engine speed: N.A.  
 4.0.6.2. Drive-by: N.A.  
 4.0.6.3. Limit value for Lurban: N.A.

3.2.15. Exhaust emissions measured according to Regulation (EU) No 134/2014 including all amendments up to (EU) 2018/295  
 3.2.15.1. Type I test: tailpipe emissions after cold start, including the deterioration factor, if applicable:

CO : N.A.  
 THC : N.A.  
 NMHC : N.A.  
 NOx : N.A.  
 THC+NOx : N.A.  
 PM : N.A.

3.2.15.2. Type II test: tailpipe emissions at (increased) idle and free acceleration:  
 HC: N.A.  
 CO: N.A.

3.2.15.3. Smoke corrected absorption coefficient: N.A.

#### Energy efficiency

4.0.2. Fuel consumption: N.A.  
 4.0.3. CO<sub>2</sub> emissions: N.A.  
 4.0.4. Energy consumption: 39 Wh/km  
 4.0.5. Electric range: 64 km

#### Conversion of the performance of the vehicle:

8.1. Vehicle appropriate for converting its performance level between subcategories (L3e/L4e)-A2 and (L3e/L4e)-A3 and vice versa: ~~yes/no~~-N.A.

#### Additional information:

9.1. Remarks: N.A.  
 9.2. Exemptions: N.A.