



CERTIFICADO DE HOMOLOGACIÓN DE TIPO UE DE VEHÍCULO COMPLETO /

EU WHOLE-VEHICLE TYPE-APPROVAL CERTIFICATE

EXTENSION I

Comunicación relativa a / *Communication concerning:*

- La homologación de tipo UE de un vehículo ⁽¹⁾ / *EU whole-vehicle type-approval* ⁽¹⁾
 - La extensión de la homologación de tipo UE de un vehículo ⁽¹⁾ / *extension of EU whole-vehicle type-approval* ⁽¹⁾
 - La denegación de la homologación de tipo UE de un vehículo ⁽¹⁾ / *refusal of EU whole-vehicle type-approval* ⁽¹⁾
 - La retirada de la homologación de tipo UE de un vehículo ⁽¹⁾ / *withdrawal of EU whole-vehicle type-approval* ⁽¹⁾
- } de un tipo de vehículo completo /
of a complete vehicle type

en relación con el Reglamento (UE) nº 168/2013, modificado en último lugar por el Reglamento (UE) nº 2020/1694 / *with regard to Regulation (EU) No 168/2013, as last amended by Regulation (EU) No 2020/1694*

Número de homologación de tipo UE / *EU type-approval number* : e9*168/2013*11965*01

Motivo de la extensión / *Reason for extension:* Ver informe CN23040135 / *See test report CN23040135*

SECCIÓN I / *SECTION I*

- 0.1. Marca (nombre comercial del fabricante) / *Make (trade name of manufacturer)* : MANGOSTEEN
- 0.2. Tipo ⁽²⁾ / *Type* ⁽²⁾ : M1PS
- 0.2.1. Variantes ⁽²⁾ / *Variant(s)* ⁽²⁾ : 00, 01
- 0.2.2. Versiones ⁽²⁾ / *Version(s)* ⁽²⁾ : 00, 01
- 0.2.3. Denominaciones comerciales (de haberlas) / *Commercial name(s) (if available)* : M1PS
- 0.3. Categoría, subcategoría y subsubcategoría del vehículo ⁽³⁾ / *Category, subcategory and sub-subcategory of vehicle* ⁽³⁾ : L3e-A1
- 0.4. Razón social y dirección del fabricante del vehículo completo / *Company name and address of manufacturer of the complete vehicle* : MANGOSTEEN TECHNOLOGY CO., LIMITED
FLAT 01C3, 10/F CARNIVAL COMMERCIAL
BUILDING 18 JAVA ROAD, NORTH POINT,
HONG KONG, CHINA

⁽¹⁾ Tachar según proceda / *Delete where not applicable*

⁽²⁾ Indicar el código alfanumérico de tipo-variante-versión o «TVV» asignado a cada tipo, variante y versión, conforme al punto 2.3 de la parte B del anexo I / *Indicate the alphanumeric code Type-Variant-Version or 'TVV' allocated to each type, variant and version as set out in point 2.3 of Part B of Annex I*

⁽³⁾ Clasificación con arreglo al artículo 4 y al anexo I del Reglamento (UE) nº 168/2013; deberá indicarse la codificación, por ejemplo «L3e-A1E» para una motocicleta enduro de prestaciones bajas / *Classified according to Article 4 of and Annex I to Regulation (EU) No 168/2013, the coding shall be indicated, e.g. 'L3e-A1E' for a low-performance Enduro motor-cycle*





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- 0.4.1. Nombre y dirección de las plantas de montaje /
Name(s) and address(es) of assembly plants : 1. Qingyuan Ouye Technology Co., Ltd.
Workshop A, 3/f, building A, no.6 workshop,
changchong S253 line, xinzhuang, longtang town,
qingcheng district, qingyuan city,
guangdong province, P. R. China.
Post Code: 511500
2. Guangdong Mangosteen Technology Co., Ltd.
The three-floor B factory building, Building A,
Block A, Xinzhuang Changchong S253 Line,
Longtang Town, Qingyuan City, Qingyuan City.
Post Code: 511500
- 0.4.2. En su caso, nombre y dirección del representante
autorizado del fabricante / *Name and address of
manufacturer's authorised representative, if any* : GreenKar Automotive S.r.l.
Via di Quarto Peperino, 22 CAP 00188 – Roma, Italy

SECCIÓN II / SECTION II

1. Servicio técnico encargado de realizar los
ensayos / *Technical service responsible for
carrying out the tests* : IDIADA AUTOMOTIVE TECHNOLOGY S.A.
L'Albornar - P.O.Box 20
E - 43710 Santa Oliva (Tarragona), Spain
2. Fecha del acta de ensayo / *Date of test report* : 12.04.2023
3. Número del acta de ensayo /
Number of test report : CN23040135

SECCIÓN III / SECTION III

El abajo firmante certifica que la descripción del fabricante, que figura en la ficha de características adjunta, del tipo de vehículo indicado anteriormente, del que se han presentado como prototipos una o varias muestras representativas seleccionadas por la autoridad de homologación de tipo UE, es exacta y que los resultados de los ensayos adjuntos son aplicables al tipo de vehículo / *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*

1. El tipo de vehículo completo cumple/no cumple ⁽¹⁾ todos los requisitos pertinentes del anexo II del Reglamento (UE) n° 168/2013*2020/1694 / *The complete vehicle type meets/does not meet ⁽¹⁾ all relevant requirements as listed in Annex II to Regulation (EU) No 168/2013*2020/1694*
- 1.1. Restricciones de validez ⁽¹⁾⁽⁶⁾ / *Restrictions of validity ⁽¹⁾⁽⁶⁾* : N.A.

⁽¹⁾ Tachar según proceda / *Delete where not applicable*

⁽⁶⁾ Solamente aplicable a la homologación de tipo de un vehículo como exención para nuevas tecnologías o nuevos conceptos, con arreglo al artículo 40 del Reglamento (UE) no 168/2013 / *Applicable only for type-approval of a vehicle as an exemption for new technology or new concept, pursuant to Article 40 of Regulation (EU) No 168/2013*





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- 1.2. Exenciones aplicadas ⁽¹⁾ ⁽⁶⁾ ⁽⁷⁾ / *Waivers applied* ⁽¹⁾ ⁽⁶⁾ ⁽⁷⁾ : N.A.
- 1.2.1. Motivos de las exenciones ⁽¹⁾ ⁽⁷⁾ / *Reasons for the waivers* ⁽¹⁾ ⁽⁷⁾ : N.A.
- 1.2.2. Requisitos alternativos ⁽¹⁾ ⁽⁷⁾ / *Alternative requirements* ⁽¹⁾ ⁽⁷⁾ : N.A.
2. Se ~~concede~~/extiende/~~deniega~~/~~retira~~ ⁽¹⁾ la homologación /
The approval is ~~granted~~/extended/~~refused~~/~~withdrawn~~ ⁽¹⁾
- 2.1. Se ~~concede~~ la homologación con arreglo al artículo 40 del Reglamento (UE) nº 168/2013, de modo que la homologación solo es válida hasta el dd/mm/aaaa ⁽⁶⁾ / *The approval is granted in accordance with Article 40 of Regulation (EU) No 168/2013 and the validity of the approval is thus limited to dd/mm/yyyy* ⁽⁶⁾.
- Lugar / *Place*: Madrid
- Fecha / *Date*: Ver firma electrónica / *See electronic signature*
- Firma / *Signature*: EL SUBDIRECTOR GENERAL DE CALIDAD Y SEGURIDAD INDUSTRIAL
Resolución P.D. del DIRECTOR GENERAL DE INDUSTRIA Y DE LA PYME
de 25-10-2012

Anexos / *Attachments*:

- Expediente de homologación / *Information package*
- Resultados de los ensayos / *Test results*
- Nombre de las personas autorizadas a firmar los certificados de conformidad, muestras de sus firmas e indicación de su cargo en la empresa / *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*
- Ejemplar cumplimentado del certificado de conformidad / *A completed specimen of the certificate of conformity*

⁽¹⁾ Tachar según proceda / *Delete where not applicable*

⁽⁶⁾ Solamente aplicable a la homologación de tipo de un vehículo como exención para nuevas tecnologías o nuevos conceptos, con arreglo al artículo 40 del Reglamento (UE) no 168/2013 / *Applicable only for type-approval of a vehicle as an exemption for new technology or new concept, pursuant to Article 40 of Regulation (EU) No 168/2013*

⁽⁷⁾ Solamente aplicable a la homologación de tipo de vehículos de una serie corta nacional, con arreglo al artículo 42 del Reglamento (UE) no 168/2013 / *Applicable only for vehicle type-approval for a national small series, pursuant to Article 42 of Regulation (EU) No 168/2013*





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ADENDA DEL CERTIFICADO DE HOMOLOGACIÓN DE TIPO UE /
ADDENDUM TO THE EU TYPE-APPROVAL CERTIFICATE

Conforme al Anexo VI, Apéndice 3, del Reglamento de Ejecución (UE) número 901/2014*2020/239 de la Comisión /
*According to Annex VI, Appendix 3, of Commission Implementing Regulation (EU) number 901/2014*2020/239*

LISTA DE LOS ACTOS REGLAMENTARIOS QUE CUMPLE EL TIPO DE VEHÍCULO /
LIST OF REGULATORY ACTS WITH WHICH THE TYPE OF VEHICLE COMPLIES

Cumplimentar solo en caso de homologación de tipo de conformidad con el artículo 30, apartado 6, del Reglamento (UE) nº 168/2013 / *To be filled in only in the case of type-approval in accordance with Article 30(6) of Regulation (EU) No 168/2013*

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A.	REQUISITOS DE EFICACIA MEDIOAMBIENTAL Y DE RENDIMIENTO DE LA UNIDAD DE PROPULSIÓN / <i>ENVIRONMENTAL AND PROPULSION UNIT PERFORMANCE REQUIREMENTS</i>			
1	Emisiones del tubo de escape tras un arranque en frío / <i>Tailpipe emissions after cold start</i>	Reglamento Delegado (UE) Nº 134/2014 de la Comisión, anexo II / <i>Commission Delegated Regulation (EU) No 134/2014 Annex II</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	---/---
2	Emisiones del tubo de escape (al ralentí aumentado) o en aceleración libre / <i>Tailpipe emissions at (increased idle) / free acceleration test</i>	Reglamento Delegado (UE) Nº 134/2014 de la Comisión, anexo III / <i>Commission Delegated Regulation (EU) No 134/2014 Annex III</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	---/---
3	Emisiones de gases del cárter / <i>Emissions crank-case gases</i>	Reglamento Delegado (UE) Nº 134/2014 de la Comisión, anexo IV / <i>Commission Delegated Regulation (EU) No 134/2014 Annex IV</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	---/---
4	Emisiones de evaporación / <i>Evaporative emissions</i>	Reglamento Delegado (UE) Nº 134/2014 de la Comisión, anexo V / <i>Commission Delegated Regulation (EU) No 134/2014 Annex V</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	---/---
5	Durabilidad de los dispositivos de control de la contaminación / <i>Durability of pollution-control devices</i>	Reglamento Delegado (UE) Nº 134/2014 de la Comisión, anexo VI / <i>Commission Delegated Regulation (EU) No 134/2014 Annex VI</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	---/---
6	Medición de las emisiones de CO ₂ consumo de combustible, consumo de energía eléctrica y determinación de la autonomía eléctrica / <i>Measurement of CO₂ emissions, fuel consumption, electric energy consumption and electric range determination</i>	Reglamento Delegado (UE) Nº 134/2014 de la Comisión, anexo VII / <i>Commission Delegated Regulation (EU) No 134/2014 Annex VII</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	Todas / <i>All</i>
7	Ensayos medioambientales del diagnóstico a bordo (DAB) / <i>Environmental on-board diagnosis (OBD) tests</i>	Reglamento Delegado (UE) Nº 134/2014 de la Comisión, anexo VIII / <i>Commission Delegated Regulation (EU) No 134/2014 Annex VIII</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	---/---





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8	Nivel sonoro admisible / <i>Permissible sound level</i>	Reglamento Delegado (UE) Nº 134/2014 de la Comisión, anexo IX / <i>Commission Delegated Regulation (EU) No 134/2014 Annex IX</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	---/---
9	Procedimientos y requisitos técnicos relativos a la velocidad máxima del vehículo por construcción, el par máximo, la potencia total continua máxima y la potencia de pico máxima / <i>Procedures and technical requirements on maximum vehicle design speed, maximum torque, maximum continuous total power and maximum peak power</i>	Reglamento Delegado (UE) Nº 134/2014 de la Comisión, anexo X / <i>Commission Delegated Regulation (EU) No 134/2014 Annex X</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	Todas / <i>All</i>
10	Definición de la familia de vehículos y de propulsiones / <i>Vehicle propulsion family definition</i>	Reglamento Delegado (UE) Nº 134/2014 de la Comisión, anexo XI / <i>Commission Delegated Regulation (EU) No 134/2014 Annex XI</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	---/---
B. REQUISITOS DE SEGURIDAD FUNCIONAL DE LOS VEHÍCULOS / <i>VEHICLE FUNCTIONAL SAFETY REQUIREMENTS</i>				
1	Avisadores acústicos / <i>Audible warning devices</i>	Reglamento Delegado (UE) Nº 3/2014 de la Comisión, anexo II / <i>Commission Delegated Regulation (EU) No 3/2014 Annex II</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	Todas / <i>All</i>
2	Frenado, incluidos los sistemas de frenado antibloqueo y los sistemas de frenado combinado / <i>Braking, including anti-lock and combined brake system</i>	Reglamento Delegado (UE) Nº 3/2014 de la Comisión, anexo III / <i>Commission Delegated Regulation (EU) No 3/2014 Annex III</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	Todas / <i>All</i>
3	Seguridad eléctrica / <i>Electric safety</i>	Reglamento Delegado (UE) Nº 3/2014 de la Comisión, anexo IV / <i>Commission Delegated Regulation (EU) No 3/2014 Annex IV</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	Todas / <i>All</i>
4	Requisitos aplicables a la declaración del fabricante sobre ensayos de durabilidad de los sistemas, piezas y equipos esenciales para la seguridad funcional / <i>Manufacturer declaration requirements regarding endurance testing of functional safety-critical systems, parts and equipment</i>	Reglamento Delegado (UE) Nº 3/2014 de la Comisión, anexo V / <i>Commission Delegated Regulation (EU) No 3/2014 Annex V</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	Todas / <i>All</i>
5	Estructuras de protección delanteras y traseras / <i>Front and rear protective structures</i>	Reglamento Delegado (UE) Nº 3/2014 de la Comisión, anexo VI / <i>Commission Delegated Regulation (EU) No 3/2014 Annex VI</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	---/---





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6	Acristalamiento, limpiaparabrisas, lavaparabrisas y sistemas de desescarchado y de desempañado / <i>Glazing, windscreen wipers and washers, and defrosting and demisting systems</i>	Reglamento Delegado (UE) N° 3/2014 de la Comisión, anexo VII / <i>Commission Delegated Regulation (EU) No 3/2014 Annex VII</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	---/---
7	Mandos accionados por el conductor, con identificación de los mandos, los testigos y indicadores / <i>Driver-operated controls including identification of controls, tell-tales and indicators</i>	Reglamento Delegado (UE) N° 3/2014 de la Comisión, anexo VIII / <i>Commission Delegated Regulation (EU) No 3/2014 Annex VIII</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	Todas / <i>All</i>
8	Instalación de dispositivos de alumbrado y señalización luminosa, incluidos el encendido y apagado automáticos del alumbrado / <i>Installation of lighting and light-signalling devices, including automatic switching of lighting</i>	Reglamento Delegado (UE) N° 3/2014 de la Comisión, anexo IX / <i>Commission Delegated Regulation (EU) No 3/2014 Annex IX</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	Todas / <i>All</i>
9	Visibilidad trasera / <i>Rearward visibility</i>	Reglamento Delegado (UE) N° 3/2014 de la Comisión, anexo X / <i>Commission Delegated Regulation (EU) No 3/2014 Annex X</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	Todas / <i>All</i>
10	Estructura de protección en caso de vuelco (ROPS) / <i>Rollover protective structure (ROPS)</i>	Reglamento Delegado (UE) N° 3/2014 de la Comisión, anexo XI / <i>Commission Delegated Regulation (EU) No 3/2014 Annex XI</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	---/---
11	Cinturones de seguridad y sus anclajes / <i>Safety-belt anchorages and safety-belts</i>	Reglamento Delegado (UE) N° 3/2014 de la Comisión, anexo XII / <i>Commission Delegated Regulation (EU) No 3/2014 Annex XII</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	---/---
12	Plazas de asiento (sillines y asientos) / <i>Seating positions (saddles and seats)</i>	Reglamento Delegado (UE) N° 3/2014 de la Comisión, anexo XIII / <i>Commission Delegated Regulation (EU) No 3/2014 Annex XIII</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	Todas / <i>All</i>
13	Maniobrabilidad, propiedades de giro en curva y capacidad de giro / <i>Steer-ability, cornering properties and turn-ability</i>	Reglamento Delegado (UE) N° 3/2014 de la Comisión, anexo XIV / <i>Commission Delegated Regulation (EU) No 3/2014 Annex XIV</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	Todas / <i>All</i>
14	Instalación de neumáticos / <i>Installation of tyres</i>	Reglamento Delegado (UE) N° 3/2014 de la Comisión, anexo XV / <i>Commission Delegated Regulation (EU) No 3/2014 Annex XV</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	Todas / <i>All</i>
15	Placa de limitación de la velocidad máxima del vehículo y su emplazamiento en el vehículo / <i>Vehicle maximum speed limitation plate and its location on the vehicle</i>	Reglamento Delegado (UE) N° 3/2014 de la Comisión, anexo XVI / <i>Commission Delegated Regulation (EU) No 3/2014 Annex XVI</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	---/---





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16	Protección de los ocupantes del vehículo, incluidos el acondicionamiento interior y las puertas del vehículo / <i>Vehicle occupant protection, including interior fittings and vehicle doors</i>	Reglamento Delegado (UE) N° 3/2014 de la Comisión, anexo XVII / <i>Commission Delegated Regulation (EU) No 3/2014 Annex XVII</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	---/---
17	Potencia nominal o neta continua máxima y/o limitación de la velocidad del vehículo por construcción / <i>Maximum continuous rated or net power and/or vehicle speed limitation by design</i>	Reglamento Delegado (UE) N° 3/2014 de la Comisión, anexo XVIII / <i>Commission Delegated Regulation (EU) No 3/2014 Annex XVIII</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	---/---
18	Requisitos relativos a la integridad de la estructura del vehículo / <i>Requirements on vehicle structure integrity</i>	Reglamento Delegado (UE) N° 3/2014 de la Comisión, anexo XIX / <i>Commission Delegated Regulation (EU) No 3/2014 Annex XIX</i>	Reglamento delegado (UE) 2016/1824 / <i>Commission delegated regulation (EU) 2016/1824</i>	Todas / <i>All</i>
C. FABRICACIÓN DE VEHÍCULOS Y REQUISITOS GENERALES A LA HOMOLOGACIÓN DE TIPO / <i>VEHICLE CONSTRUCTION AND GENERAL TYPE-APPROVAL REQUIREMENTS</i>				
1	Medidas de prevención de la manipulación del grupo motopropulsor (antimanipulación) / <i>Powertrain tampering prevention measures (anti-tampering)</i>	Reglamento Delegado (UE) N° 44/2014 de la Comisión, anexo II / <i>Commission Delegated Regulation (EU) No 44/2014 Annex II</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	Todas / <i>All</i>
2	Disposiciones relativas a los procedimientos de homologación de tipo / <i>Arrangements for type-approval procedures</i>	Reglamento Delegado (UE) N° 44/2014 de la Comisión, anexo III / <i>Commission Delegated Regulation (EU) No 44/2014 Annex III</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	Todas / <i>All</i>
3	Conformidad de la producción / <i>Conformity of production</i>	Reglamento Delegado (UE) N° 44/2014 de la Comisión, anexo IV / <i>Commission Delegated Regulation (EU) No 44/2014 Annex IV</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	Todas / <i>All</i>
4	Dispositivos de acoplamiento y de fijación / <i>Coupling devices and attachments</i>	Reglamento Delegado (UE) N° 44/2014 de la Comisión, anexo V / <i>Commission Delegated Regulation (EU) No 44/2014 Annex V</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	---/---
5	Dispositivos de protección contra la utilización no autorizada / <i>Devices to prevent unauthorised use</i>	Reglamento Delegado (UE) N° 44/2014 de la Comisión, anexo VI / <i>Commission Delegated Regulation (EU) No 44/2014 Annex VI</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	Todas / <i>All</i>
6	Compatibilidad electromagnética (CEM) / <i>Eletromagnetic compatibility (EMC)</i>	Reglamento Delegado (UE) N° 44/2014 de la Comisión, anexo VII / <i>Commission Delegated Regulation (EU) No 44/2014 Annex VII</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	Todas / <i>All</i>





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7	Salientes exteriores / <i>External projections</i>	Reglamento Delegado (UE) Nº 44/2014 de la Comisión, anexo VIII / <i>Commission Delegated Regulation (EU) No 44/2014 Annex VIII</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	Todas / <i>All</i>
8	Almacenamiento de combustible / <i>Fuel storage</i>	Reglamento Delegado (UE) Nº 44/2014 de la Comisión, anexo IX / <i>Commission Delegated Regulation (EU) No 44/2014 Annex IX</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	---/---
9	Plataformas de carga / <i>Load platforms</i>	Reglamento Delegado (UE) Nº 44/2014 de la Comisión, anexo X / <i>Commission Delegated Regulation (EU) No 44/2014 Annex X</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	---/---
10	Masas y dimensiones / <i>Masses and dimensions</i>	Reglamento Delegado (UE) Nº 44/2014 de la Comisión, anexo XI / <i>Commission Delegated Regulation (EU) No 44/2014 Annex XI</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	Todas / <i>All</i>
11	Requisitos funcionales del diagnóstico a bordo (DAB) / <i>On-board diagnostics (OBD) functional requirements</i>	Reglamento Delegado (UE) Nº 44/2014 de la Comisión, anexo XII / <i>Commission Delegated Regulation (EU) No 44/2014 Annex XII</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	Todas / <i>All</i>
12	Asideros y reposapiés para pasajeros / <i>Passenger handholds and footrests</i>	Reglamento Delegado (UE) Nº 44/2014 de la Comisión, anexo XIII / <i>Commission Delegated Regulation (EU) No 44/2014 Annex XIII</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	Todas / <i>All</i>
13	Espacio destinado a la placa de matrícula / <i>Registration plate space</i>	Reglamento Delegado (UE) Nº 44/2014 de la Comisión, anexo XIV / <i>Commission Delegated Regulation (EU) No 44/2014 Annex XIV</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	Todas / <i>All</i>
14	Acceso a la información sobre la reparación y el mantenimiento / <i>Access to repair and maintenance information</i>	Reglamento Delegado (UE) Nº 44/2014 de la Comisión, anexo XV / <i>Commission Delegated Regulation (EU) No 44/2014 Annex XV</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	Todas / <i>All</i>
15	Caballetes / <i>Stands</i>	Reglamento Delegado (UE) Nº 44/2014 de la Comisión, anexo XVI / <i>Commission Delegated Regulation (EU) No 44/2014 Annex XVI</i>	Reglamento delegado (UE) 2018/295 / <i>Commission delegated regulation (EU) 2018/295</i>	Todas / <i>All</i>
D. REQUISITOS ADMINISTRATIVOS PARA LA HOMOLOGACIÓN Y LA VIGILANCIA DEL MERCADO / <i>ADMINISTRATIVE REQUIREMENTS FOR THE APPROVAL AND MARKET SURVEILLANCE</i>				
1	Placa reglamentaria y marca de homologación de tipo UE / <i>Statutory plate and EU type- approval mark</i>	Reglamento de Ejecución (UE) Nº 901/2014, anexo V / <i>Implementing Regulation (EU) No 901/2014 Annex V</i>	Reglamento delegado (UE) 2020/239 / <i>Commission delegated regulation (EU) 2020/239</i>	Todas / <i>All</i>





Número de homologación de tipo UE / *EU type-approval number*

e9*168/2013*11965*01

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RESUMEN HOJA DE RESULTADOS DE ENSAYO / *TEST RESULTS SHEET SUMMARY*

A) REQUISITOS DE EFICACIA MEDIOAMBIENTAL Y DE RENDIMIENTO DE LA UNIDAD DE PROPULSIÓN CONFORME EL REGLAMENTO 134/2014/EU / *ENVIRONMENTAL AND PROPULSION UNIT PERFORMANCE REGARDING REGULATION 134/2014/EU*

1. Fase medioambiental del vehículo ensayado /
Environmental step of test vehicle : Euro 5
2. Programa de conducción aplicable del ensayo de tipo I /
Applicable test type I driving schedule : WMTC fase 3 / *WMTC stage 3*
3. Ensayo de tipo I: emisiones del tubo de escape tras un arranque en frío / *Test type I: tailpipe emissions after cold start*
N.A.
4. Resultados del ensayo de tipo II: emisiones del tubo de escape al ralentí (aumentado) y en aceleración libre / *Test type II results: tailpipe emissions at (increased idle)/free acceleration*
N.A.
5. Ensayo de tipo IV: emisiones de evaporación / *Type IV test: evaporative emissions*
N.A.
6. Ensayo de tipo V: durabilidad de los dispositivos de control de la contaminación / *Test type V: durability of pollution-control devices*
N.A.





Número de homologación de tipo UE / *EU type-approval number*

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7. Ensayo de tipo VII: medición de las emisiones de CO₂, consumo de combustible, consumo de energía eléctrica y determinación de la autonomía eléctrica / *Test type VII: measurement of CO₂ emissions, fuel consumption, electric energy consumption and electric range determination*

Cuadro / *Table* 5-9

Variante/versión / *Variant/versión*: 00/00

CUADRO DE RESULTADOS DE LOS ENSAYOS DE TIPO VII PARA PROPULSIONES ELÉCTRICAS PURAS O PROPULSIONES NO RECARGABLES DESDE EL EXTERIOR EQUIPADAS CON UN MOTOR ELÉCTRICO DE PROPULSIÓN / <i>TEST TYPE VII RESULT TABLE FOR PURE ELECTRIC PROPULSION OR NOT-EXTERNALLY-CHARGEABLE (NOVC) PROPULSIONS EQUIPPED WITH AN ELECTRIC MOTOR FOR PROPULSION</i>				
	Consumo de energía eléctrica medido (Wh/km) / <i>Measured electric energy consumption (Wh/km)</i>	Consumo de energía eléctrica declarada / <i>Declared electric energy consumption (Wh/km)</i>	Autonomía eléctrica medida (km) / <i>Measured electric range (km)</i>	Autonomía eléctrica declarada / <i>Declared electric range(km)</i>
Grupo motopropulsor eléctrico puro / <i>Pure electric powertrain</i>	40	40	102	102
Grupo motopropulsor eléctrico híbrido no recargable desde el exterior / <i>NOVC hybrid electric powertrain</i>	---	---	---	---

Variante/versión / *Variant/versión*: 01/01

CUADRO DE RESULTADOS DE LOS ENSAYOS DE TIPO VII PARA PROPULSIONES ELÉCTRICAS PURAS O PROPULSIONES NO RECARGABLES DESDE EL EXTERIOR EQUIPADAS CON UN MOTOR ELÉCTRICO DE PROPULSIÓN / <i>TEST TYPE VII RESULT TABLE FOR PURE ELECTRIC PROPULSION OR NOT-EXTERNALLY-CHARGEABLE (NOVC) PROPULSIONS EQUIPPED WITH AN ELECTRIC MOTOR FOR PROPULSION</i>				
	Consumo de energía eléctrica medido (Wh/km) / <i>Measured electric energy consumption (Wh/km)</i>	Consumo de energía eléctrica declarada / <i>Declared electric energy consumption (Wh/km)</i>	Autonomía eléctrica medida (km) / <i>Measured electric range (km)</i>	Autonomía eléctrica declarada / <i>Declared electric range(km)</i>
Grupo motopropulsor eléctrico puro / <i>Pure electric powertrain</i>	46.8	47	134.7	135
Grupo motopropulsor eléctrico híbrido no recargable desde el exterior / <i>NOVC hybrid electric powertrain</i>	---	---	---	---

8. Ensayo de tipo VIII: diagnóstico a bordo (DAB) medioambiental / *Test type VIII: environmental on-board diagnostic (OBD)*

N.A.

9. Ensayo de tipo IX: nivel sonoro / *Test type IX: sound level*

N.A.





Anexo - Información adicional sobre esta Homologación de tipo

Condiciones de la autorización y pie de recurso

Los vehículos, sistemas, componentes o unidades técnicas independientes fabricados en virtud de esta homologación de tipo deben estar identificados y portar las marcas correspondientes según la reglamentación aplicable.

La producción en serie de vehículos, sistemas, componentes y unidades técnicas independientes debe realizarse de acuerdo con la documentación de homologación. Todo cambio en la producción individualizada requerirá autorización expresa previa por parte de la Autoridad de Homologación Española.

Cualquier modificación en los datos incluidos en el certificado de homologación, como el nombre de la empresa, representante en la UE, dirección y las plantas de fabricación deben ser comunicados inmediatamente a la Autoridad de Homologación Española.

La homologación perderá su validez cuando la misma haya sido retirada o el tipo ya no cumpla con los requisitos legales. La retirada tendrá lugar siempre que hayan dejado de cumplirse los requisitos necesarios para la concesión y mantenimiento de la misma, cuando el fabricante no pueda demostrar a la Autoridad de Homologación el cumplimiento con los requisitos y procedimientos para garantizar la conformidad de la producción, en caso de que el titular no cumpla con sus obligaciones inherentes a la homologación o cuando se determine que el tipo homologado no cumple con los requisitos de seguridad y medio ambiente.

La Autoridad de Homologación de Tipo española podrá verificar el cumplimiento de las obligaciones del fabricante en cualquier momento. En particular, se podrá comprobar la correspondencia del producto con el tipo homologado, así como las medidas establecidas para garantizar la conformidad de la producción. A tal efecto se podrán tomar o solicitar las muestras necesarias. Se permitirá el acceso sin trabas a las instalaciones de producción y almacenamiento a los empleados o representantes de la Autoridad de Homologación Española.

La autorización objeto de esta resolución de homologación de tipo no es transferible. Los derechos de marca de terceros no se encuentran afectados por esta homologación.

Contra la presente Resolución, que no pone fin a la vía administrativa, podrá interponerse recurso de alzada ¹ ante la Dirección General de Industria y de la Pequeña y Mediana empresa, o ante la Secretaría General de Industria y de la Pequeña y Mediana empresa, en el plazo de un mes a partir del día siguiente a su notificación, de conformidad con los artículos 121 y 122 de la Ley 39/2015, de 1 de octubre, del Procedimiento Administrativo Común de las Administraciones Públicas.

¹ Nota: Para interponer recurso de alzada deberá acceder al siguiente enlace:
<https://sede.serviciosmin.gob.es/es-es/procedimientoselectronicos/Paginas/detalle-procedimientos.aspx?IdProcedimiento=157>





Annex - Additional Information on this Type Approval

Collateral clauses and right to appeal (Courtesy translation)

All vehicles, systems, components or separate technical units which correspond to the approved type are to be identified and marked according to the applied regulation.

The serial fabrication of vehicles, systems, components or separate technical must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the Spanish Type Approval Authority.

Changes in the data included in the approval certificate, such as the name of the company, EU representative, address and the manufacturing plant are to be immediately disclosed to the Spanish Type Approval Authority.

The approval expires if it is withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the manufacturer cannot demonstrate to the Type Approval Authority that it comply with the requirements and procedures to guarantee the conformity of production, if the holder of the approval violates the duties involved in the approval or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.

The Spanish Type Approval Authority may check the proper exercise of the conferred authority taken from this approval at any time. In particular, this means the compliant production as well as the measures for conformity of production. For this purpose, samples can be taken or have taken. The employees or the representatives of the Spanish Type Approval Authority may get unhindered access to the production and storage facilities.

The authorization contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

This approval does not conclude the administrative channel and can be appealed² within one month after notification, according to articles 121 and 122 of Ley 39/2015, de 1 de octubre, del Procedimiento Administrativo Común de las Administraciones Públicas. The appeal is to be addressed to Dirección General de Industria y de la Pequeña y Mediana empresa, or Secretaría General de Industria y de la Pequeña y Mediana empresa.

² Note: Appeal on the following link:

<https://sede.serviciosmin.gob.es/es-es/procedimientoselectronicos/Paginas/detalle-procedimientos.aspx?IdProcedimiento=157>



**INFORME / REPORT N° CN23040135**

REGLAMENTO (UE) N° 168/2013*2020/1694 RELATIVO A LA HOMOLOGACIÓN DE LOS VEHÍCULOS DE DOS O TRES RUEDAS Y LOS CUATRICICLOS Y A LA VIGILANCIA DEL MERCADO DE DICHS VEHÍCULOS

*REGULATION (EU) No. 168/2013*2020/1694 ON THE APPROVAL AND MARKET SURVEILLANCE OF TWO OR THREE-WHEELED AND QUADRICYCLES*

EXTENSION I

Solicitante / *Applicant* : MANGOSTEEN TECHNOLOGY CO., LIMITED

Fabricante / *Manufacturer* : MANGOSTEEN TECHNOLOGY CO., LIMITED
FLAT 01C3, 10/F CARNIVAL COMMERCIAL
BUILDING 18 JAVA ROAD, NORTH POINT,
HONG KONG, CHINA

Representante / *Representative* : GreenKar Automotive S.r.l.
Via di Quarto Peperino, 22 CAP 00188 – Roma, Italy

Marca del vehículo / *Trade mark* : MANGOSTEEN

Tipo / *Type* : MIPS

Categoría, subcategoría y sub-subcategoría /
Category, subcategory and sub-subcategory : L3e-A1

Lugar y fecha de emisión del informe /
Place and date issued of the report : L'Albornar, Santa Oliva (Tarragona), 12.04.2023

CONCLUSIONES / CONCLUSIONS: El vehículo presentado, cuyas características técnicas se detallan en la ficha de características n° 168/2013-MIPS-01, facilitada por el constructor, anexa a este informe, , son motivo de extensión respecto al vehículo tipo (exp. IDIADA n° CN22070699) **SE AJUSTA** a las prescripciones relativas a la Homologación de Tipo CE de los vehículos de dos o tres ruedas y los cuatriciclos en la aplicación del Reglamento (UE) N°168/2013*2019/129, según se detalla en los informes parciales adjuntados a este informe. / *The vehicle submitted for test, whose technical characteristics are listed in detail in information document No. 168/2013-MIPS-01, supplied by the manufacturer, attached to this report, grant grounds for extension with respect to formerly certified vehicle type (IDIADA Report No. CN22070699) **COMPLIES** with the specifications related to the EC Type-Approval of two or three-wheeled and the quadricycles vehicles according to Regulation (EU) 168/2013*2019/129, as detailed in the separate reports annexed to this report.*

Realizado / *Performed by:*

Anpeng(apple) Li
INGENIERO DE HOMOLOGACIONES
HOMOLOGATION ENGINEER

V. B°. / *Revised by:*

Josep Masip Gomez
JEFE DE DEPARTAMENTO
DEPARTMENT MANAGER

* LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA
THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE

* QUEDA TERMINANTEMENTE PROHIBIDA LA REPRODUCCIÓN PARCIAL DE ESTE INFORME SIN PERMISO EXPRESO DE IDIADA
THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN


ANEXO AL INFORME / ANNEX TO THE TEST REPORT
MOTIVOS DE LA EXTENSIÓN / EXTENSION REASONS

- Inclusión de nueva variante/versión 01/01 / *Inclusion of new variant/version 01/01.*
- Inclusión de un nuevo neumático delantero opcional para la variante/versión 00/00 / *Inclusion of a new optional front tyre for variant/version 00/00.*
- Corrección de los puntos 3.3.6.2. en la documentación técnica debido a los errores / *Correction of points 3.3.6.2. in the technical documentation due to the mistakes.*
- Corrección del dibujo No. M 1 PS03, M 1 PS-08 debido a los errores / *Correction of drawing No. MIPS03, MIPS-08 due to the mistakes.*

Nota / Note: Los puntos modificados indicados a continuación están en negrita / *Modified points listed below are in bold characters.*

IDENTIFICACIÓN DEL VEHÍCULO / IDENTIFICATION OF THE VEHICLE

Marca de fábrica / <i>Trade mark</i>	:	MANGOSTEEN
Tipo / <i>Type</i>	:	M1PS
Variante/versión / <i>Variant/version</i>	:	00/00, 01/01
Categoría / <i>Category</i>	:	L3e
Subcategoría / <i>Subcategory</i>	:	A1
Fecha de recepción de la muestra / <i>Date sample received</i>	:	22.02.2023

LISTADO DE LOS ACTOS REGLAMENTARIOS QUE CUMPLE EL TIPO DE VEHÍCULO / LIST OF REGULATORY ACTS WITH WHICH THE TYPE OF VEHICLE COMPLIES

Entrada / <i>Item</i>	Asunto / <i>Subject</i>	Referencia del acto reglamentario / <i>Regulatory act reference</i>	Nº Informe / <i>Report No.</i>	Variante/ versión / <i>Variant/ version</i>	Informe base / <i>Base report</i>
A. REQUISITOS DE EFICACIA MEDIOAMBIENTAL Y DE RENDIMIENTO DE LA UNIDAD DE PROPULSIÓN / ENVIRONMENTAL AND PROPULSION UNIT PERFORMANCE REQUIREMENTS					
1	Emisiones del tubo de escape tras un arranque en frío / <i>Tailpipe emissions after cold start</i>	Reg. Delegado (UE) Nº / <i>Delegated Reg. (EU) No 134/2014*2018/295 Annex II</i>	N.A.	---/---	N.A.
2	Emisiones del tubo de escape (al ralentí aumentado) o en aceleración libre / <i>Tailpipe emissions at (increased idle) / free acceleration test</i>	Reg. Delegado (UE) Nº / <i>Delegated Reg. (EU) No 134/2014*2018/295 Annex III</i>	N.A.	---/---	N.A.
3	Emisiones de gases del cárter / <i>Emissions crank-case gases</i>	Reg. Delegado (UE) Nº / <i>Delegated Reg. (EU) No 134/2014*2018/295 Annex IV</i>	N.A.	---/---	N.A.
4	Emisiones de evaporación / <i>Evaporative emissions</i>	Reg. Delegado (UE) Nº / <i>Delegated Reg. (EU) No 134/2014*2018/295 Annex V</i>	N.A.	---/---	N.A.

* LOS ENSAYOS HAN SIDO REALIZADOS POR IDIADA AUTOMOTIVE TECHNOLOGY, SA LABORATORIO ACREDITADO POR ENAC CON NÚMERO DE ACREDITACIÓN 35/LE2594 / *THE TESTS HAVE BEEN CARRIED OUT BY IDIADA AUTOMOTIVE TECHNOLOGY, S.A. LABORATORY ACCREDITED BY ENAC WITH NUMBER OF ACCREDITATION 35/LE2594*

* LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA / *THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE*

* QUEDA TERMINANTEMENTE PROHIBIDA LA REPRODUCCIÓN PARCIAL DE ESTE INFORME SIN PERMISO EXPRESO DE IDIADA / *THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN*

* LA REGLA DE DECISIÓN UTILIZADA, SEGÚN LA NORMA ILAC-G8, HA SIDO LA DECLARACIÓN BINARIA DE ACEPTACIÓN SIMPLE / *THE DECISION RULE USED, ACCORDING TO THE ILAC-G8 STANDARD, WAS THE BINARY STATEMENT FOR SIMPLE ACCEPTANCE*

IDIADA Automotive Technology, S.A. N.I.F. A43581610 Servicio Técnico Designado de Homologación (TS)



Entrada / Item	Asunto / Subject	Referencia del acto reglamentario / Regulatory act reference	Nº Informe / Report No.	Variante/ versión / Variant/ version	Informe base / Base report
5	Durabilidad de los dispositivos de control de la contaminación / <i>Durability of pollution-control devices</i>	Reg. Delegado (UE) Nº / <i>Delegated Reg. (EU) No</i> 134/2014*2018/295 <i>Annex VI</i>	N.A.	---/---	N.A.
6	Medición de las emisiones de CO ₂ consumo de combustible, consumo de energía eléctrica y determinación de la autonomía eléctrica / <i>Measurement of CO₂ emissions, fuel consumption, electric energy consumption and electric range determination</i>	Reg. Delegado (UE) Nº / <i>Delegated Reg. (EU) No</i> 134/2014*2018/295 <i>Annex VII</i>	M1PS/ 134/2014/VII and M1PS/ 134/2014/VII/01	Todas / <i>All</i>	Ext.00 Ext.01
7	Ensayos medioambientales del diagnóstico a bordo (DAB) / <i>Environmental on-board diagnosis (OBD) tests</i>	Reg. Delegado (UE) Nº / <i>Delegated Reg. (EU) No</i> 134/2014*2018/295 <i>Annex VIII</i>	N.A.	---/---	N.A.
8	Nivel sonoro admisible / <i>Permissible sound level</i>	Reg. Delegado (UE) Nº / <i>Delegated Reg. (EU) No</i> 134/2014*2018/295 <i>Annex IX</i>	N.A.	---/---	N.A.
9	Velocidad máxima del vehículo por construcción, el par máximo, la potencia total continua máxima y la potencia de pico máxima / <i>Maximum vehicle design speed, maximum torque, maximum continuous total power and maximum peak power</i>	Reg. Delegado (UE) Nº / <i>Delegated Reg. (EU) No</i> 134/2014*2018/295 <i>Annex X</i>	M1PS/ 134/2014/X and M1PS/ 134/2014/X/01	Todas / <i>All</i>	Ext.00 Ext.01
10	Definición de la familia de vehículos y de propulsiones / <i>Vehicle propulsion family definition</i>	Reg. Delegado (UE) Nº / <i>Delegated Reg. (EU) No</i> 134/2014*2018/295 <i>Annex XI</i>	N.A.	---/---	N.A.
B. REQUISITOS DE SEGURIDAD FUNCIONAL DE LOS VEHÍCULOS / VEHICLE FUNCTIONAL SAFETY REQUIREMENTS					
1	Avisadores acústicos / <i>Audible warning devices</i>	Reg. Delegado (UE) Nº / <i>Delegated Reg. (EU) No</i> 3/2014*2016/1824 <i>Annex II</i>	M1PS/ 3/2014/II	Todas / <i>All</i>	Ext.00
2	Frenado, incluidos los sistemas de frenado antibloqueo y los sistemas de frenado combinado / <i>Braking, including anti-lock and combined brake system</i>	Reg. Delegado (UE) Nº / <i>Delegated Reg. (EU) No</i> 3/2014*2016/1824 <i>Annex III</i>	M1PS/ 3/2014/III and M1PS/ 3/2014/III/01	Todas / <i>All</i>	Ext.00 Ext.01

* LOS ENSAYOS HAN SIDO REALIZADOS POR IDIADA AUTOMOTIVE TECHNOLOGY, SA LABORATORIO ACREDITADO POR ENAC CON NÚMERO DE ACREDITACIÓN 35/LE2594 / *THE TESTS HAVE BEEN CARRIED OUT BY IDIADA AUTOMOTIVE TECHNOLOGY, S.A. LABORATORY ACCREDITED BY ENAC WITH NUMBER OF ACCREDITATION 35/LE2594*

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* LA REGLA DE DECISIÓN UTILIZADA, SEGÚN LA NORMA ILAC-G8, HA SIDO LA DECLARACIÓN BINARIA DE ACEPTACIÓN SIMPLE / *THE DECISION RULE USED, ACCORDING TO THE ILAC-G8 STANDARD, WAS THE BINARY STATEMENT FOR SIMPLE ACCEPTANCE*



Entrada / Item	Asunto / Subject	Referencia del acto reglamentario / Regulatory act reference	Nº Informe / Report No.	Variante/ versión / Variant/ version	Informe base / Base report
3	Seguridad eléctrica / Electric safety	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex IV	M1PS/ 3/2014/IV and M1PS/ 3/2014/IV/01	Todas / All	Ext.00 Ext.01
4	Requisitos aplicables a la declaración del fabricante sobre ensayos de durabilidad de los sistemas, piezas y equipos esenciales para la seguridad funcional / Manufacturer declaration requirements regarding endurance testing of functional safety-critical systems, parts and equipment	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex V	M1PS/ 3/2014/V and M1PS/ 3/2014/V/01	Todas / All	Ext.00 Ext.01
5	Estructuras de protección delanteras y traseras / Front and rear protective structures	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex VI	N.A.	---/---	N.A.
6	Acrilamiento, limpiaparabrisas, lavaparabrisas y sistemas de desescarchado y de desempañado / Glazing, windscreen wipers and washers, and defrosting and demisting systems	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex VII	N.A.	---/---	N.A.
7	Mandos accionados por el conductor, con identificación de los mandos, los testigos y indicadores / Driver-operated controls including identification of controls, tell-tales and indicators	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex VIII	M1PS/ 3/2014/VIII and M1PS/ 3/2014/VIII/01	Todas / All	Ext.00 Ext.01
8	Instalación de dispositivos de alumbrado y señalización luminosa, incluidos el encendido y apagado automáticos del alumbrado / Installation of lighting and light-signalling devices, including automatic switching of lighting	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex IX	M1PS/ 3/2014/IX	Todas / All	Ext.00
9	Visibilidad trasera / Rearward visibility	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex X	M1PS/ 3/2014/X	Todas / All	Ext.00
10	Estructura de protección en caso de vuelco (ROPS) / Rollover protective structure (ROPS)	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex XI	N.A.	---/---	N.A.
11	Cinturones de seguridad y sus anclajes / Safety-belt anchorages and safety-belts	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex XII	N.A.	---/---	N.A.

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Entrada / Item	Asunto / Subject	Referencia del acto reglamentario / Regulatory act reference	Nº Informe / Report No.	Variante/ versión / Variant/ version	Informe base / Base report
12	Plazas de asiento (sillines y asientos) / Seating positions (saddles and seats)	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex XIII	M1PS/ 3/2014/XIII and M1PS/ 3/2014/XIII/01	Todas / All	Ext.00 Ext.01
13	Maniobrabilidad, propiedades de giro en curva y capacidad de giro / Steer-ability, cornering properties and turn-ability	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex XIV	M1PS/ 3/2014/XIV	Todas / All	Ext.00
14	Instalación de neumáticos / Installation of tyres	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex XV	M1PS/ 3/2014/XV and M1PS/ 3/2014/XV/01	Todas / All	Ext.00 Ext.01
15	Placa de limitación de la velocidad máxima del vehículo y su emplazamiento en el vehículo / Vehicle maximum speed limitation plate and its location on the vehicle	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex XVI	N.A.	---/---	N.A.
16	Protección de los ocupantes del vehículo, incluidos el acondicionamiento interior y las puertas del vehículo / Vehicle occupant protection, including interior fittings and vehicle doors	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex XVII	N.A.	---/---	N.A.
17	Potencia nominal o neta continua máxima y/o limitación de la velocidad del vehículo por construcción / Maximum continuous rated or net power and/or vehicle speed limitation by design	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex XVIII	N.A.	---/---	N.A.
18	Requisitos relativos a la integridad de la estructura del vehículo/ Requirements on vehicle structure integrity	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 3/2014*2016/1824 Annex XIX	M1PS/ 3/2014/XIX and M1PS/ 3/2014/XIX/01	Todas / All	Ext.00 Ext.01
C. FABRICACIÓN DE VEHÍCULOS Y REQUISITOS GENERALES A LA HOMOLOGACIÓN DE TIPO / VEHICLE CONSTRUCTION AND GENERAL TYPE-APPROVAL REQUIREMENTS					
1	Medidas de prevención de la manipulación del grupo motopropulsor (antimanipulación) / Powertrain tampering prevention measures (anti-tampering)	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex II	M1PS/ 44/2014/II	Todas / All	Ext.00
2	Disposiciones relativas a los procedimientos de homologación de tipo/ Arrangements for type-approval procedures	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex III	De una sola vez / Single step	Todas / All	Ext.00

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3	Conformidad de la producción / Conformity of production	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex IV	M1PS/ 44/2014/IV and M1PS/ 44/2014/IV/01	Todas / All	Ext.00 Ext.01
4	Dispositivos de acoplamiento y de fijación / Coupling devices and attachments	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex V	N.A.	---/---	N.A.
5	Dispositivos de protección contra la utilización no autorizada / Devices to prevent unauthorised use	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex VI	M1PS/ 44/2014/VI	Todas / All	Ext.00
6	Compatibilidad electromagnética (CEM) / Eletromagnetic compatibility (EMC)	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex VII	M1PS/ 44/2014/VII and M1PS/ 44/2014/VII/01	Todas / All	Ext.00 Ext.01
7	Salientes exteriores / External projections	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex VIII	M1PS/ 44/2014/VIII and M1PS/ 44/2014/VIII/01	Todas / All	Ext.00 Ext.01
8	Almacenamiento de combustible / Fuel storage	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex IX	N.A.	---/---	N.A.
9	Plataformas de carga / Load platforms	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex X	N.A.	---/---	N.A.
10	Masas y dimensiones / Masses and dimensions	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex XI	M1PS/ 44/2014/XI and M1PS/ 44/2014/XI/01	Todas / All	Ext.00 Ext.01
11	Requisitos funcionales del diagnóstico a bordo (DAB) / On-board diagnostics (OBD) functional requirements	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex XII	M1PS/ 44/2014/XII	Todas / All	Ext.00
12	Asideros y reposapiés para pasajeros / Passenger handholds and footrests	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex XIII	M1PS/ 44/2014/XIII	Todas / All	Ext.00
13	Espacio destinado a la placa de matrícula / Registration plate space	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex XIV	M1PS/ 44/2014/XIV	Todas / All	Ext.00
14	Acceso a la información sobre la reparación y el mantenimiento / Access to repair and maintenance information	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex XV	M1PS/ 44/2014/XV and M1PS/ 44/2014/XV/01	Todas / All	Ext.00 Ext.01

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15	Caballetes / Stands	Reg. Delegado (UE) Nº / Delegated Reg. (EU) No 44/2014*2018/295 Annex XVI	M1PS/ 44/2014/XVI	Todas / All	Ext.00
D. REQUISITOS ADMINISTRATIVOS PARA LA HOMOLOGACIÓN Y LA VIGILANCIA DEL MERCADO / ADMINISTRATIVE REQUIREMENTS FOR THE APPROVAL AND MARKET SURVEILLANCE					
1	Placa reglamentaria y marca de homologación de tipo UE / Statutory plate and EU type-approval mark	Reg. de Ejecución (UE) Nº / Implementing Reg. (EU) No 901/2014*2020/239 Annex V	M1PS/ 901/2014/V	Todas / All	Ext.00

Lugar / Place : L'Albornar, Santa Oliva (Tarragona) SPAIN
 Fecha / Date : 12.04.2023

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APÉNDICE / APPENDIX M1PS/134/2014/VII/01

REQUISITOS DEL ENSAYO DE TIPO VII: EMISIONES DE CO₂, CONSUMO DE COMBUSTIBLE,
CONSUMO DE ENERGÍA ELÉCTRICA Y AUTONOMÍA ELÉCTRICA /

TEST TYPE VII REQUIREMENTS: CO₂ EMISSIONS, FUEL CONSUMPTION, ELETRIC ENERGY
CONSUMPTION AND ELECTRIC RANGE

Reglamento Delegado (UE) / Delegated Regulation (EU) No. 134/2014/VII*2018/295

IDENTIFICACIÓN DEL VEHÍCULO PRESENTADO AL ENSAYO /
IDENTIFICATION OF THE VEHICLE SUBMITTED FOR TEST

Marca / Make ⁽¹⁾	: MANGOSTEEN
Tipo / Type ⁽¹⁾	: M1PS
Variantes/versiones ensayadas / Tested variants/versions ⁽¹⁾	: 01/01
Variantes/versiones cubiertas / Covered variants/versions	: 01/01
Categoría, subcategoría y sub-subcategoría / Category, subcategory and sub-subcategory	: L3e-A1
Nº de bastidor / Frame number	: R3M1S0101P1000001
Kilometraje / Mileage	: 312 km
Fecha de recepción de la muestra / Date sample received	: 22.02.2023

⁽¹⁾ Información proporcionada por el cliente. El laboratorio no se hace responsable de dicha información /
Information provided by the client. The laboratory is not responsible for such information

ESPECIFICACIONES DEL VEHÍCULO / SPECIFICACION OF THE VEHICLE

- Motor / Motor

Marca / Make	: Quanshun
Tipo/Nº motor / Type/Motor No.	: MGSD72VA / 600125
Corriente / Current	: Alterna /Continua / Alternating /Direct
Voltaje operativo / Operating voltage	: 72 V DC
Potencia neta continua máxima / Maximum continuous rated power	: 5.0 kW a / at 800 min ⁻¹
- Bateria / Battery

Tipo / Type	: Li-Ion
Cantidad / Quantity	: 2
Nº de celdas / N° of cells	: 2x180=360
Capacidad / Capacity	: 2x40=80 Ah
Tensión / Voltage	: 72 V
- Caja de cambios / Gearbox

Tipo / Type	: Without gearbox (wheel hub motor)
Relación final / Final drive ratio	: N.A.

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- Velocidad máxima declarada / *Maximum declared speed* : 100 km/h
- Neumáticos / *Tyres*

	Dimensiones / <i>Size</i>	Circunferencia de rodadura / <i>Rolling circumference</i> (mm)	Presión / <i>Pressure</i> (kPa)
Delantero / <i>Front</i>	120/80-14 M/C	1700	225
Trasero / <i>Rear</i>	215/40-13 M/C	1600	250

- Condiciones de carga del vehículo / *Load conditions of the vehicle*

Masa real del vehículo ensayado / *Actual mass of the tested vehicle* : 195 kg

Masa de referencia del vehículo / *Reference mass of the vehicle* : 195 kg

Masa de inercia equivalente / *Equivalent inertia mass* : 190 kg

VERIFICACIONES INICIALES / INITIAL CHECKINGS

Los dispositivos de alumbrado, señalización y auxiliares están apagados, excepto los necesarios para el ensayo y funcionamiento diurno habitual del vehículo / *The lighting, signalling and auxiliary devices be off, except those required for the testing and usual day- time operation of the vehicle*.....CORRECT

Todos los sistemas de almacenamiento de energía para fines distintos de la tracción han sido cargados al nivel máximo especificado por el fabricante / *All energy storage systems for other than traction purposes have been charged to their maximum level as specified by the manufacturer*CORRECT

En caso de que las baterías se pongan en funcionamiento a una temperatura superior a la temperatura ambiente, se aplica el procedimiento recomendado por el fabricante / *If the batteries are operated above the ambient temperature, the operator follows the procedure recommended by the vehicle manufacturer*NOT APPLICABLE

Distancia recorrida por el vehículo 7 días antes del ensayo / *Driven distance of the vehicle 7 days before the test* ≥ 300 km.....CORRECT

Se aplica el ciclo de ensayo correspondiente a / *Applies the test cycle corresponding to:* R47 /-WMTC stage 3 / R40.....CORRECT

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CONDICIONES DEL ENSAYO / TEST CONDITIONS

• Condiciones atmosféricas / *Atmospherical conditions*

Ensayo / <i>Test</i>	Consumo eléctrico / <i>Electric consumption</i>	Autonomía eléctrica / <i>Electric range</i>
Temperatura / <i>Temperature</i>	: 24.3 °C	24.7 °C
Humedad relativa / <i>Relative humidity</i>	: 58.5 %	52.2 %
Presión barométrica / <i>Barometric pressure</i>	: 102.3 kPa	101.8 kPa

• Tiempos de carga de batería y de ensayo / *Battery charge and test timing*

Ensayo / <i>Test</i>	Consumo eléctrico / <i>Electric consumption</i>	Autonomía eléctrica / <i>Electric range</i>
Hora final de carga (T ₀) / <i>End of charging time (T₀)</i>	: 08:40 (27.02.2023)	08:40 (28.02.2023)
Hora de inicio del ciclo <i>Driving start cycle time</i>	: 09:30 (27.02.2023)	09:00 (28.02.2023)
Hora final de la recarga (T _{end}) / <i>Charging stop time (T_{end})</i>	: 08:40 (28.02.2023)	---
Tiempo en carga / <i>Charge duration</i>	: 22h 40min	---

MEDICIÓN DEL CONSUMO DE ENERGÍA ELÉCTRICA /
MEASURING THE ELECTRIC ENERGY CONSUMPTION

La carga inicial se ha llevado a cabo según el apéndice 2 del Anexo VII del Reglamento Delegado (UE) N° 134/2014 / *Initial charge is carried out following the appendix 2 of Annex VII of Delegated Regulation (EU) No 134/2014*.....CORRECT

Se han realizado dos ensayos / ~~un ensayo y otro ensayo parcial~~ del tipo I en un banco dinamométrico / ~~Two test/One test and other partial test~~ have been carried out on a chassis dynamometer.....CORRECT

Distancia recorrida (D_{test}) / *Distance covered (D_{test})* : 24.34 km

Tiempos de ensayo de acuerdo con el Apéndice 2 de este Anexo / *Test timing according to Appendix 2 of this Annex*.....CORRECT

Energía de carga (E) durante la recarga de la batería / *Energy charge (E) during the battery* : 1140 Wh

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Consumo de la energía eléctrica (C) / *Electric energy consumption (C)*

Valor medido / <i>Measured value</i>	46.84 Wh/km
Valor declarado / <i>Declared value</i>	47 Wh/km
Diferencia / <i>Difference</i>	0.3 %

El consumo eléctrico declarado no es menor de un 4% al valor ensayado /
Declared electric consumption is not less than a 4% of the tested valueCORRECT

MEDICIÓN DE LA AUTONOMÍA ELÉCTRICA / *ELECTRIC RANGE MEASUREMENT*

La carga inicial se ha llevado a cabo según el apéndice 3.3 del Anexo VII del Reglamento Delegado (UE) N° 134/2014 / *Initial charge is carried out following appendix 3.3 of Annex VII of Delegated Regulation (EU) No 134/2014*.....CORRECT

Hasta 3 interrupciones, de no más de 15 minutos en total / *Up to three interruptions, of no more than 15 minutes in total*.....CORRECT

Tiempos aplicados durante el ensayo de acuerdo con Apéndice 3.3 del Anexo VII del Reglamento Delegado (UE) N° 134/2014 / *Test timing according to Appendix 3.3 of Annex VII to Delegated Regulation (EU) No 134/2014*.....CORRECT

Autonomía eléctrica (D_e) / *Electric range (D_e)*

Valor medido / <i>Measured value</i>	134.72 km
Valor declarado / <i>Declared value</i>	135 km

Observación / *Remark*: ---

DISPOSICIONES GENERALES DEL FABRICANTE / *MANUFACTURER GENERAL PROVISIONS*

El fabricante del vehículo garantiza que, en el momento de la compra de un vehículo nuevo, se facilitará al comprador los datos sobre emisiones de CO₂, consumo de combustible, consumo de energía eléctrica y autonomía eléctrica / *The vehicle manufacturer ensure that the CO₂ 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*.....CORRECT

Se adjunta a la ficha de características un ejemplar completo del formato de presentación de los resultados de los ensayos de tipo VII utilizado para informar al comprador del vehículo nuevo / *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*.....NOT APPLICABLE

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EQUIPO DE ENSAYO / TEST EQUIPMENT

- Banco de rodillos / *Roller dynamometer*:
 - Marca / *Make* : SNT
 - Tipo / *Type* : Inercia electro-mecánica / *Electro-mechanical inertia*
 - Modelo / *Model* : ACD-037B106MX
 - Diámetro / *Diameter* : 1061 mm
- Báscula / *Scales*
 - Fabricante / *Manufacturer* : Youngic
 - Modelo / *Model* : TCS-300kg-4050

Lugar del ensayo / *Test place* : NMQSII, Nanchang (China)

Fecha del ensayo / *Test date* : 26 a / to 28.02.2023

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APÉNDICE / APPENDIX M1PS/134/2014/X/01

PROCEDIMIENTOS DE ENSAYO Y REQUISITOS TÉCNICOS CON RESPECTO A LA EFICACIA DE LA UNIDAD DE PROPULSIÓN / TESTING PROCEDURES AND TECHNICAL REQUIREMENTS AS REGARDS PROPULSION UNIT PERFORMANCE

REQUISITOS RELATIVOS A LOS MÉTODOS DE MEDICIÓN DEL PAR MÁXIMO Y LA POTENCIA NOMINAL CONTINUA MÁXIMA DE UN TIPO DE PROPULSIÓN ELÉCTRICA PURA / REQUIREMENTS CONCERNING THE METHODS FOR MEASURING THE MAXIMUM TORQUE AND MAXIMUM CONTINUOUS RATED POWER OF A PURE ELECTRIC PROPULSION TYPE

Reglamento Delegado (UE) / Delegated Regulation (EU) No. 134/2014/X*2018/295

IDENTIFICACIÓN DEL TIPO DE VEHICULO AL QUE SE INSTALA EL GRUPO MOTOPROPULSOR / IDENTIFICATION OF THE TYPE OF VEHICLE TO WHICH THE DRIVE TRAIN IS INSTALLED

Marca / Make ⁽¹⁾ : MANGOSTEEN
 Tipo / Type ⁽¹⁾ : M1PS
 Variantes/versiones ensayadas / Tested variants/versions ⁽¹⁾ : 01/01
 Variantes/versiones cubiertas / Covered variants/versions : 01/01
 Categoría, subcategoría y sub-subcategoría / Category, subcategory and sub-subcategory : L3e-A1
 Fecha de recepción de la muestra / Date sample received : 22.02.2023

⁽¹⁾ Información proporcionada por el cliente. El laboratorio no se hace responsable de dicha información / Information provided by the client. The laboratory is not responsible for such information

IDENTIFICACIÓN DE LA UNIDAD DE PROPULSIÓN PRESENTADA AL ENSAYO / IDENTIFICATION OF THE PROPULSION UNIT SUBMITTED FOR TEST

Motor ensayado / Tested motor

Marca / Make : Quanshun
 Código / Code : MGSD72VA
 Número motor / Motor No. : 600128
 Principio de funcionamiento / Working principle : Imán permanente sin escobillas / Brushless permanent magnet
 Tensión nominal / Nominal voltage : 72V

* LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA / THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE
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Especificaciones del grupo motopropulsor / Specification of the electric drive train

Marca / <i>Make</i>	:	Quanshun
Código / <i>Code</i>	:	MGSD72VA
Principio de funcionamiento / <i>Working principle</i>	:	Imán permanente sin escobillas / <i>Brushless permanent magnet</i>
Control de potencia / <i>Power control</i>	:	MG72V270A_27_2_H67
Unidad de control del motor eléctrico / <i>Electric motor control unit</i>	:	MG72V270A_27_2_H67
Potencia neta máxima estimada / <i>Estimated maximum net power</i>	:	5.0 kW a / <i>at</i> 800 min ⁻¹
Régimen máximo del eje motor / <i>Motor crankshaft maximum speed</i>	:	1050 min ⁻¹
Sistema de refrigeración / <i>Cooling system</i>	:	Por aire / <i>Air cooled</i>
Tensión nominal de ensayo / <i>Nominal test voltage</i>	:	72 V ± 5 %
Eficiencia de la caja de cambios o reductora / <i>Gear-box or reducer efficiency</i>	:	No aplicable / <i>Not applicable</i>
Potencia absorbida por accesorios no desmontables / <i>Power absorbed by non- removable accessories</i>	:	No aplicable / <i>Not applicable</i>

Condiciones de ensayo / Test conditions

Banco de ensayo / <i>Test bench</i>	:	KEDA / MCT-E15
Fuente de corriente DC / <i>DC voltage source</i>	:	Si / <i>Yes</i>
Ventilación auxiliar en banco ensayo / <i>Bench test auxiliary fan</i>	:	Si / <i>Yes</i>
Temperatura al inicio de ensayo / <i>Temperature at start of tests</i>	:	24.5 °C
Temperatura al final de ensayo / <i>Temperature at end of tests</i>	:	29.8 °C

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RESULTADOS DEL ENSAYO DE POTENCIA NETA / NET POWER TEST RESULTS

Precondicionamiento térmico de 2 horas / 2 hour thermal preconditioningCORRECT

3 minutos de funcionamiento al 80% de la potencia máxima estimada /
3 minutes running at 80% of max. estimated power.....CORRECT

Mediciones de la curva de potencia / Power curve measurementsCORRECT

	Velocidad / Speed (min ⁻¹)	Par / Torque (N·m)	Potencia / Power (W)	Tensión / Voltage (V)	Temp. motor / engine (°C)
1	1050	30.3	3334	71.8	27
2	1024	35.2	3776	71.8	27
3	1001	44.7	4688	71.8	27
4	943	50.1	4944	71.8	28
5	892	54.5	5094	71.8	29
6	847	57.5	5101	71.8	30
7	808	60.5	5115	71.8	32
8	785	62.3	5123	71.8	33
9	767	64.8	5200	71.8	34
10	750	65.9	5172	71.8	34
11	692	69.5	5035	71.8	36
12	644	74.4	5016	71.8	38
13	561	83.8	4925	71.8	40
14	471	95.5	4712	71.7	42
15	452	98.2	4648	71.7	43
16	306	124.1	3976	71.7	44
17	209	143.1	3132	71.7	45
18	150	158.0	2482	71.7	46

Ensayo completado en 5 minutos / Whole test completed within 5 minutes.....CORRECT

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RESULTADOS DE ENSAYO DE LA POTENCIA MÁXIMA EN 30 MINUTOS /
MAXIMUM 30 MINUTES POWER TEST RESULTS

Potencia máxima en 30 minutos estimada /
Estimated maximum 30 minutes power : 5.0 kW

Rango flexible >90% pot. máx. /
Flexible range >90% max. power : 471 a / to 1001 min⁻¹

Precondicionamiento térmico de 4 horas / *4 hour thermal preconditioning*CORRECT

Mediciones de la potencia / *Power measurements*CORRECT

	Tiempo (seg) / Time (sec)	Velocidad / Speed (min ⁻¹)	Par / Torque (N·m)	Potencia / Power (W)	Tensión / Voltage (V)	Temp. motor / engine (°C)
1	Inicio/Start	799	60.3	4963	71.92	47
2	120	799	60.3	4963	71.92	48
3	240	800	60.2	4960	71.89	49
4	360	800	60.2	4960	71.88	51
5	480	799	60.1	4954	71.87	53
6	600	800	60.1	4960	71.87	55
7	720	801	60	4952	71.85	56
8	840	800	60.1	4952	71.84	58
9	960	801	60	4952	71.68	59
10	1080	799	60.1	4946	71.67	60
11	1200	800	60	4953	71.66	61
12	1320	801	59.9	4951	71.64	62
13	1440	802	59.9	4950	71.61	63
14	1560	802	59.9	4950	71.55	64
15	1680	801	59.8	4949	71.54	65
16	1800	801	59.7	4949	71.52	66

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RESULTADO FINAL / FINAL RESULT

RESULTADOS / RESULTS	Valor declarado / Declared value	Valor medido / Measured value
Potencia máxima de pico / Maximum peak power	5.2 kW	5.20 kW
Régimen de potencia nominal máxima / Maximum peak power engine speed	770 min ⁻¹	767 min ⁻¹
Par máximo / Max. Torque	60.0 N·m	60.0 N·m
Régimen de par máximo / Max. torque speed	800 min ⁻¹	800min ⁻¹
Potencia máx. en 30 minutos / Maximum 30 minutes power	5.0 kW	4.95 kW
Régimen de potencia máx. en 30 minutos / Maximum 30 minutes power engine speed	800 min ⁻¹	800 min ⁻¹

TOLERANCIA / TOLERANCE

La potencia máxima neta, la potencia máxima durante 30 minutos y el régimen del motor ensayado difieren en menos de un 2 % de los valores especificados por el fabricante y en menos de un 4 % para el resto de medidas. / *The maximum net power, the maximum 30 minutes power of the tested engine and the engine speed differ by less than a 2 % of the values specified by the manufacturer and less than 4 % for the other measurement points.*

EQUIPO DE ENSAYO / TEST EQUIPMENT

• Dinamómetro / Dynamometer

Marca / Make : KEDA
 Modelo / Model : MCT-E2
 Tipo / Type : ---

Lugar del ensayo / Test place : NMQSII, Nanchang (China)

Fecha del ensayo / Test date : 04.03.2023



Anpeng(apple) Li
 INGENIERO DE HOMOLOGACIONES
 HOMOLOGATION ENGINEER

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APÉNDICE / APPENDIX M1PS/3/2014/III/01

REQUISITOS APLICABLES AL FRENADO, INCLUIDOS LOS SISTEMAS DE FRENADO ANTIBLOQUEO Y SISTEMAS DE FRENADO COMBINADO / REQUIREMENTS APPLYING TO BRAKING, INCLUDING ANTI-LOCK AND COMBINED BRAKING SYSTEMS

Reglamento Delegado (UE) / Delegated Regulation (EU) No. 3/2014/III*2016/1824

IDENTIFICACIÓN DEL VEHÍCULO PRESENTADO AL ENSAYO / IDENTIFICATION OF THE VEHICLE SUBMITTED FOR TEST

Marca / Make ⁽¹⁾ : MANGOSTEEN
 Tipo / Type ⁽¹⁾ : M1PS
 Variantes/versiones ensayadas / Tested variants/versions ⁽¹⁾ : 01/01
 Variantes/versiones cubiertas / Covered variants/versions : 01/01
 Categoría, subcategoría y sub-subcategoría / Category, subcategory and sub-subcategory : L3e-A1
 Nº de bastidor / Frame number : R3M1S0101P1000001
 Fecha de recepción de la muestra / Date sample received : 22.02.2023

⁽¹⁾ Información proporcionada por el cliente. El laboratorio no se hace responsable de dicha información / Information provided by the client. The laboratory is not responsible for such information

ESPECIFICACIONES DEL VEHÍCULO / SPECIFICACION OF THE VEHICLE

- Condiciones de carga del vehículo / Load conditions of the vehicle:

	Carga ligera ⁽¹⁾ / Lightly loaded (kg)	Carga / Laden (kg)	Carga ligera ABS ⁽²⁾ / Lightly loaded ABS (kg)
Delantero / Front axle	87	108	---
Posterior / Rear axle	123	137	---
TOTAL	210	245	---

⁽¹⁾ Carga ligera = Peso en orden de marcha + conductor (75 kg) + equipos opcionales y de ensayo (15 kg) + baterías de propulsión en caso de vehículos eléctricos / Lightly loaded = Mass in running order + driver (75kg) + optional and test equipment (15 kg) + propulsion batteries in case of electric vehicles

⁽²⁾ Carga ligera ABS = Peso en orden de marcha + conductor (75 kg) + equipos opcionales y de ensayo (30 kg) + baterías de propulsión en caso de vehículos eléctricos / Lightly loaded ABS = Mass in running order + driver (75kg) + optional and test equipment (30 kg) + propulsion batteries in case of electric vehicles

- Motor / Engine

Fabricante / Manufacturer : Quanshun
 Tipo/Nº motor / Type/Engine No. : MGSD72VA / 600125
 Voltaje de operación / Operating voltage : 72V DC
 Unidad de control del motor eléctrico / Electric motor control unit : MG72V270A_27_2_H67
 Controlador de potencia / Power controller : MG72V270A_27_2_H67

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- Caja de cambio / Gearbox

Tipo / Type : Without gearbox (wheel hub motor)
 N° velocidades / No. of gear ratios : N.A.

- Velocidad máxima declarada / Maximum declared speed

: 100 km/h

- Neumáticos / Tyres

	Dimensiones / Size (mm)	Presión / Pressure (kPa)
Delantero / Front	120/80-14 M/C	225
Trasero / Rear	215/40-13 M/C	250

- Descripción del sistema de frenos / Braking device description :

Combinado / Combined : Disco de Ø 320 mm accionado hidráulicamente por una bomba de Ø 12.7 mm en la palanca izquierda usando 2 pistones de la pinza delantera con cilindro de rueda de Ø 18 mm y disco de Ø 320 mm en 2 pistones paralelos de la pinza trasera con cilindros de rueda de Ø 18 mm. / Ø 320 mm disc hydraulically actuated by Ø 12.7 mm pump on left hand lever using 2 pistons of the front calliper with wheel cylinder of Ø 18 mm and Ø 320 mm disc in 2 parallel pistons of the rear calliper with wheel cylinders of Ø 18 mm.

Secundario / Secondary : Disco de Ø 320 mm accionado hidráulicamente por una bomba de Ø 12.7 mm en la palanca derecha utilizando 2 pistones paralelos de la pinza delantera con cilindros de rueda de Ø 18 mm. / Ø 320 mm disc hydraulically actuated by Ø 12.7 mm pump on right hand lever using 2 parallel pistons of the front calliper with wheel cylinders of Ø 18 mm.

- Pastillas de freno / Brake pads

Delantero / Front : CNHB / HB-F044
 Trasero / Rear : CNHB / HB-F044

- Requisitos de la bomba principal del sistema de frenos hidráulicos / Master cylinder of hydraulic brake system requirements:

Depósito tapado, sellado y separado para cada sistema de frenado / Sealed, covered, separate reservoir for each brake systemCORRECT

Depósito con capacidad mínima equivalente a 1.5 veces del fluido total requerido para satisfacer el desgaste máximo de las pastillas / Minimum reservoir capacity equivalent to 1.5 times the total fluid displacement required to satisfy the new to fully worn lining conditionCORRECT

Nivel del depósito visible sin quitar la tapa / Reservoir fluid level visible without remove the coverCORRECT

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CONDICIONES DEL ENSAYO / TEST CONDITIONS

Temperatura / <i>Temperature</i>	:	22.2 °C
Humedad / <i>Humidity</i>	:	50.5%
Velocidad del Viento / <i>Wind speed</i>	:	1.6 m/s (N-S)
Dirección de marcha / <i>Direction</i>	:	N-S
Lugar de ensayo / <i>Test zone</i>	:	Campo de ensayo estándar / <i>Standard Testing Field</i>

RESULTADOS DE ENSAYO / TEST RESULTS

Bruído / *Burnish*

Temperatura inicial del freno ≤ 100 °C /
Initial brake temperature ≤ 100 °CCORRECT

100 frenadas sólo con el sistema de freno combinado, con deceleraciones
entre 3.5 y 4.0 m/s² / *100 brake stops with the combined brake system
only, with decelerations between 3.5 and 4.0 m/s²*CORRECT

Frenada en seco con la acción de cada control de frenado individualmente /
Dry stop with single brake control action

Temperatura inicial del freno entre 55 °C y 100 °C /
Initial brake temperature between 55 °C and 100 °CCORRECT

Pruebas en carga / *Laden vehicle tests*

	V (km/h)	MFDD (m/s ²)	F (N)
CBS	60.7	5.38	122
Sistema del freno secundario / <i>Secondary service brake system</i>	60.4	5.30	117

Vehículo ligeramente cargado / *Vehicle lightly loaded*

	V (km/h)	MFDD (m/s ²)	F (N)
CBS	61.8	6.14	115

Frenada en seco con la acción de todos los controles de frenado / *Dry stop with all service brake controls actuated*

Temperatura inicial del freno entre 55 °C y 100 °C /
Initial brake temperature between 55 °C and 100 °CCORRECT

Vehículo ligeramente cargado / *Vehicle lightly loaded*

	V (km/h)	S (m)	F ₁ (N)	F ₂ (N)
Freno combinado / <i>Combined brake</i>	91.3	49.86	126	110

F1 : Fuerza en la palanca derecha / *Force on right lever.*
F2 : Fuerza en la palanca izquierda / *Force on left lever.*

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Ensayo con frenos mojados / Wet brake test

Temperatura inicial del freno entre 55 °C y 100 °C /
Initial brake temperature between 55 °C and 100 °C.....CORRECT

- Freno combinado / *Combined brake system*

Pruebas en carga / Laden vehicle tests

	V (km/h)	d _{avg} (m/s ²)*	d _{max} (m/s ² **	d _i (m/s ² ***	F _{avg} (N)****
Media de referencia / <i>Baseline average</i>	60.2	2.85	3.88	2.42	69
Prueba mojado / <i>Wet test</i>	61.1	2.45	2.94	2.13	68

- (*) Deceleración media / *Average deceleration*
- (**) Deceleración máxima del vehículo durante la frenada excluyendo los últimos 0.5 segundos / *Maximum vehicle deceleration during the complete stop but excluding the final 0.5 seconds*
- (***) Deceleración media en el periodo de 0.5 a 1.0 segundos después de la actuación del comando de freno / *Average deceleration in the period 0.5 to 1.0 seconds after de point of actuation of the brake control*
- (****) Fuerza media del comando de freno medida entre el 80 % y el 10 % de la velocidad de ensayo especificada / *Average brake control force measured between the 80 per cent and the 10 per cent of the specified test speed*

Vehículo ligeramente cargado / Vehicle lightly loaded

	V (km/h)	d _{avg} (m/s ²)*	d _{max} (m/s ² **	d _i (m/s ² ***	F _{avg} (N)****
Media de referencia / <i>Baseline average</i>	61.0	2.73	3.27	2.63	54
Prueba mojado / <i>Wet test</i>	60.9	2.41	3.33	1.90	54

- (*) Deceleración media / *Average deceleration*
- (**) Deceleración máxima del vehículo durante la frenada excluyendo los últimos 0.5 segundos / *Maximum vehicle deceleration during the complete stop but excluding the final 0.5 seconds*
- (***) Deceleración media en el periodo de 0.5 a 1.0 segundos después de la actuación del comando de freno / *Average deceleration in the period 0.5 to 1.0 seconds after de point of actuation of the brake control*
- (****) Fuerza media del comando de freno medida entre el 80 % y el 10 % de la velocidad de ensayo especificada / *Average brake control force measured between the 80 per cent and the 10 per cent of the specified test speed*

- Sistema del freno secundario / *Secondary service brake system*

Pruebas en carga / Laden vehicle tests

	V (km/h)	d _{avg} (m/s ²)*	d _{max} (m/s ² **	d _i (m/s ² ***	F _{avg} (N)****
Media de referencia / <i>Baseline average</i>	60.9	2.68	2.86	2.30	71
Prueba mojado / <i>Wet test</i>	60.0	2.45	2.53	1.89	70

- (*) Deceleración media / *Average deceleration*
- (**) Deceleración máxima del vehículo durante la frenada excluyendo los últimos 0.5 segundos / *Maximum vehicle deceleration during the complete stop but excluding the final 0.5 seconds*
- (***) Deceleración media en el periodo de 0.5 a 1.0 segundos después de la actuación del comando de freno / *Average deceleration in the period 0.5 to 1.0 seconds after de point of actuation of the brake control*
- (****) Fuerza media del comando de freno medida entre el 80 % y el 10 % de la velocidad de ensayo especificada / *Average brake control force measured between the 80 per cent and the 10 per cent of the specified test speed*

* LOS RESULTADOS PRESENTADOS SE REFIEREN UNICAMENTE A LA MUESTRA ENSAYADA /
THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE
 * QUEDA TERMINANTEMENTE PROHIBIDA LA REPRODUCCION PARCIAL DE ESTE INFORME SIN PERMISO EXPRESO DE IDIADA /
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Ensayo de pérdida de eficacia / Heat fade test

Pruebas en carga / Laden vehicle tests

Freno combinado / Combined brake

	V (km/h)	MFDD (m/s ²)	F (N)
Referencia / Baseline	60.7	5.38	122
Ensayo en caliente / Hot test	60.3	4.51	119

Ensayo fallo CBS / CBS failure testNOT APPLICABLE

Observación / Remark: El ensayo de fallo del CBS no se realiza ya que el vehículo no dispone de transmisión hidráulica o mecánica común para los sistemas de frenado de servicio que intervienen en el CBS (frenada combinada). / CBS failure test is not performed because this vehicle does not share a common hydraulic or common mechanical transmission for separate service brake systems actuated in CBS.

EQUIPO DE ENSAYO / TEST EQUIPMENT

- DGPS Sistema completo de adquisición de datos / DGPS Full data acquisition system:

Fabricante / Manufacturer : Racelogic Ltd.
Modelo / Model : VB3i-V4G

- Pantalla Multilínea / Multiline Display:

Fabricante / Manufacturer : Racelogic Ltd.
Modelo / Model : RLVBDSP03

- VBox Mini Input Módulo / Module:

Fabricante / Manufacturer : HKM
Modelo / Model : 0600193

- Antena GPS / GPS Antena:

Fabricante / Manufacturer : Racelogic Ltd.
Modelo / Model : RLACS158

- Medidor de fuerzas (para calibrar células de carga) / Force Gauge (for load cell calibration):

Fabricante / Manufacturer : MECMESIN
Modelo / Model : FB479

- Estación meteorológica / Meteorological station:

Marca / Make : KANOMAX
Modelo / Model : MODEL6611


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Lugar del ensayo / Test place : NMQSII, Nanchang (China)
Fecha del ensayo / Test date : 02.03.2023

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APÉNDICE / APPENDIX M1PS/3/2014/IV/01
REQUISITOS RELATIVOS A LA SEGURIDAD ELÉCTRICA /
REQUIREMENTS REGARDING ELECTRICAL SAFETY

Reglamento Delegado (UE) / Delegated Regulation (EU) No. 3/2014/IV*2016/1824

IDENTIFICACIÓN DEL VEHÍCULO PRESENTADO AL ENSAYO /
IDENTIFICATION OF THE VEHICLE SUBMITTED FOR TEST

Marca / <i>Make</i> ⁽¹⁾	: MANGOSTEEN
Tipo / <i>Type</i> ⁽¹⁾	: M1PS
Variantes/versiones ensayadas / <i>Tested variants/versions</i> ⁽¹⁾	: 01/01
Variantes/versiones cubiertas / <i>Covered variants/versions</i>	: 01/01
Categoría, subcategoría y sub-subcategoría / <i>Category, subcategory and sub-subcategory</i>	: L3e-A1
Nº de bastidor / <i>Frame number</i>	: R3M1S0101P1000001
Fecha de recepción de la muestra / <i>Date sample received</i>	: 22.02.2023

⁽¹⁾ Información proporcionada por el cliente. El laboratorio no se hace responsable de dicha información /
Information provided by the client. The laboratory is not responsible for such information

ESPECIFICACIONES DEL VEHÍCULO / SPECIFICACION OF THE VEHICLE

• Motor / *Motor*

Fabricante / <i>Manufacturer</i>	: Quanshun
Tipo / <i>Type</i>	: MGSD72VA / 600125
Potencia máxima / <i>Maximum power</i>	: 5.0 kW a / at 800 min ⁻¹
Corriente / <i>Current</i>	: Alterna /Contínua / Alternating /Direct
Tensión de trabajo / <i>Operating voltage</i>	: 72 V DC
Unidad de control del motor eléctrico / <i>Electric motor control unit</i>	: MG72V270A_27_2_H67
Control de potencia / <i>Power control</i>	: MG72V270A_27_2_H67

• Baterías / *Batteries*

Tipo / <i>Type</i>	: Li-Ion
Cantidad / <i>Quantity</i>	: 2
Nº de celdas / <i>No. of cells</i>	: 2x180=360
Capacidad / <i>Capacity</i>	: 2x40=80 Ah
Tensión / <i>Voltage</i>	: 72 V

* LOS ENSAYOS HAN SIDO REALIZADOS POR IDIADA AUTOMOTIVE TECHNOLOGY, SA LABORATORIO ACREDITADO POR ENAC CON NÚMERO DE ACREDITACIÓN 35/LE2594 / THE TESTS HAVE BEEN CARRIED OUT BY IDIADA AUTOMOTIVE TECHNOLOGY; S.A. LABORATORY ACCREDITED BY ENAC WITH NUMBER OF ACCREDITATION 35/LE2594

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PROTECCIÓN CONTRA CHOQUES ELÉCTRICOS / PROTECTION AGAINST ELECTRICAL SHOCK

Contacto Directo / Direct Contact

Grado de protección IPXXD dentro del habitáculo cerrado para pasajeros y del compartimento para equipajes / *IPXXD protection degree inside the enclosed passenger's compartment as well as luggage compartment*.....NOT APPLICABLE

Grado de protección IPXXB en zonas distintas del habitáculo cerrado / *IPXXB protection degree in areas other than the enclosed compartment*.....CORRECT

Grado de protección IPXXD en vehículos que no dispone de un habitáculo cerrado / *IPXXD protection degree in vehicles where no enclosed compartment is present*CORRECT

Conectores / *Connectors*.....CORRECT

Grado de protección IPXXB en la desconexión del servicio sin utilizar herramientas / *IPXXB protection degree in the service disconnect without the use of tools*CORRECT

Marcado / *Marking*CORRECT

Contacto indirecto / Indirect Contact

Resistencia entre las piezas conductoras expuestas y el chasis eléctrico < 0.1 Ω para I > 0.2 A / *Resistance between exposed conductive parts and electrical chassis < 0.1 Ω for I > 0.2 A*.....CORRECT

Conexión a tierra del dispositivo de acoplamiento a la red / *Ground connection of the external power supply coupling device*.....CORRECT

Resistencia de aislamiento / Insulation resistance

En grupos motopropulsores eléctricos de buses CC y CA separados / *In electric power trains of separate DC or AC-buses*CORRECT

En un grupo motopropulsor eléctrico de buses CC y CA combinados / *In an electric power train of combined DC- and AC-buses*.....NOT APPLICABLE

Vehículos provistos de pila de combustible / *Fuel cell vehicles*.....NOT APPLICABLE

Sistema de acoplamiento para cargar el REESS / *Coupling system for charging the REESS*.....CORRECT

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REQUISITOS RELATIVOS AL REESS / REQUIREMENTS CONCERNING THE REESS

- Protección en caso de corriente excesiva / *Protection in case of excessive current*CORRECT
- Prevención de la acumulación de gas / *Prevention of accumulation of gas*NOT APPLICABLE
- Protección contra vertidos de electrolito / *Protection against electrolyte spills*NOT APPLICABLE
- Desprendimiento accidental o no intencionado /
Accidental or unintentional detachmentCORRECT

REQUISITOS DE SEGURIDAD EN USO / IN-USE SAFETY REQUIREMENTS

- Procedimiento de encendido y apagado del sistema de propulsión /
Propulsion system power-on and power-off procedureCORRECT
- Conducción con potencia reducida / *Driving with reduced power*CORRECT
- Conducción marcha atrás / *Driving backwards*NOT APPLICABLE
- Determinación de las emisiones de hidrógeno /
Determination of hydrogen emissionsNOT APPLICABLE

Lugar del ensayo / *Test place* : NMQSII. Nanchang (China)
Fecha del ensayo / *Test date* : 01.03.2023

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**APÉNDICE / APPENDIX M1PS/3/2014/V/01****REQUISITOS APLICABLES A LA DECLARACIÓN DEL FABRICANTE SOBRE LOS ENSAYOS DE DURABILIDAD DE LOS SISTEMAS CRÍTICOS PARA LA SEGURIDAD FUNCIONAL, PIEZAS Y EQUIPOS / REQUIREMENTS APPLYING TO MANUFACTURERS' DECLARATION REGARDING ENDURANCE TESTING OF FUNCTIONAL SAFETY CRITICAL SYSTEMS, PARTS AND EQUIPMENT****Reglamento Delegado (UE) / Delegated Regulation (EU) No. 3/2014/V*2016/1824**IDENTIFICACIÓN DEL VEHÍCULO / IDENTIFICATION OF THE VEHICLE

Marca / Make : MANGOSTEEN
Tipo / Type : M1PS
Variante(s)/versión(e)s / Variant(s)/version(s) : 00/00, 01/01
Categoría, subcategoría y sub-subcategoría /
Category, subcategory and sub-subcategory : L3e-A1

La declaración del fabricante está de acuerdo con el artículo 22, apartado 2 y el anexo VIII del Reglamento (UE) n° 168/2013 / *Manufacturers' statement is in conformity with Article 22(2) and Annex VIII to Regulation (EU) No 168/2013*

La distancia de uso normal para la categoría L3e-A1 es de /
Normal distance of use for this category L3e-A1 is at least : 30,000 km

La declaración del fabricante se entiende realizada sin perjuicio de sus obligaciones de prestación de garantía al propietario del vehículo. / *The manufacturer's statement is without prejudice to its warranty obligations towards the owner of the vehicle.*

Ver declaración del fabricante en la información del fabricante. / *See manufacturer's declaration in the information document.*

Lugar / Place : Hong Kong, China
Fecha / Date : 05.03.2023

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APÉNDICE / APPENDIX M1PS/3/2014/VIII/01

REQUISITOS APLICABLES A LOS MANDOS ACCIONADOS POR EL CONDUCTOR, CON IDENTIFICACIÓN DE LOS MANDOS, LUCES TESTIGO E INDICADORES / REQUIREMENTS APPLYING TO DRIVER-OPERATED CONTROLS INCLUDING IDENTIFICATION OF CONTROLS, TELL-TALES AND INDICATORS

Reglamento Delegado (UE) / Delegated Regulation (EU) No. 3/2014/VIII*2016/1824

IDENTIFICACIÓN DEL VEHÍCULO PRESENTADO AL ENSAYO / IDENTIFICATION OF THE VEHICLE SUBMITTED FOR TEST

Marca / Make ⁽¹⁾	: MANGOSTEEN
Tipo / Type ⁽¹⁾	: M1PS
Variantes/versiones ensayadas / Tested variants/versions ⁽¹⁾	: 01/01
Variantes/versiones cubiertas / Covered variants/versions	: 01/01
Categoría, subcategoría y sub-subcategoría / Category, subcategory and sub-subcategory	: L3e-A1
Nº de bastidor / Frame number	: R3M1S0101P1000001
Velocidad Máxima / Maximum Speed	: 100 km/h
Fecha de recepción de la muestra / Date sample received	: 22.02.2023

⁽¹⁾ Información proporcionada por el cliente. El laboratorio no se hace responsable de dicha información / Information provided by the client. The laboratory is not responsible for such information

ESPECIFICACIONES DEL VEHÍCULO / SPECIFICACION OF THE VEHICLE

- Datos de los neumáticos / Tyre data

	Dimensiones / Size	Presión / Pressure (kPa)
Delantero / Front	120/80-14 M/C	245 (*)
Trasero / Rear	215/40-13 M/C	270 (*)

(*) Valores declarados por el fabricante. La presión ha sido aumentada en 20 kPa para la prueba de verificación del velocímetro / Values declared by the manufacturer. Pressure has been increased in 20 kPa for the speedometer test verification.

- Condiciones de carga del vehículo / Load conditions of the vehicle

	P.O.M. ⁽¹⁾ / M.R.O. ⁽¹⁾ (kg)	Masa real / Actual mass (kg)
Delantero / Front	36	80
Trasero / Rear	52	115
TOTAL	88	195

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• Datos del Velocímetro / *Speedometer System Data*

Marca / *Make* : Elephant
 Tipo / *Type* : DX80A
 Clase / *Classe* : Digital / *Digital*
 Escala / *Dial* : Métrica e/o imperial / *Metrical and/or imperial*

PARTE 1 IDENTIFICACIÓN DE LOS MANDOS, LUCES TESTIGO E INDICADORES / PART 1 IDENTIFICATION OF CONTROL, TELL-TALES AND INDICATORS

Debido a razones de extensión, ni el velocímetro ni los controles han sido modificados y los resultados del informe CN22070699 siguen siendo válidos. / *Due to the extension reasons, neither the speedometer nor the controls have been modified and the results of the report CN22070699 are still valid.*

PARTE 2 VELOCÍMETRO Y ODÓMETRO / PART 2 SPEEDOMETER AND ODOMETER

Debido a razones de extensión, ni el velocímetro ni los controles han sido modificados y los resultados del informe CN22070699 siguen siendo válidos. / *Due to the extension reasons, neither the speedometer nor the controls have been modified and the results of the report CN22070699 are still valid.*

ENSAYO / TEST

• Condiciones de ensayo / *Test conditions:*

El ensayo se efectúa en pista con un revestimiento plano, seco y de adherencia suficiente / *The test is carried out on a track, the surface of which is flat, dry and provides sufficient grip*CORRECT

El ensayo se efectúa en banco dinamométrico de rodillos con diámetro superior a 0,4m / *The test is carried out on a roller dynamometer bench with a diameter more than 0,4m*NOT APPLICABLE

Temperatura de referencia en el velocímetro igual a 23 °C ± 15 °C / *Reference temperature at the speedometer equal to 23 °C ± 15 °C*CORRECT

Temperatura ambiente / *Ambient temperature:* 22.2 °C

• Resultados del ensayo (en km/h) / *Test results (in km/h)*

Velocidad indicada / <i>Read speed</i>	40	40	40	80	80	80
Velocidad real / <i>Actual speed</i>	39.0	39.1	39.0	78.6	79.0	79.0
Diferencia (indicada-real) / <i>Difference (read-actual)</i>	1.0	0.9	1.0	1.4	1.0	1.0
Valor límite / <i>Limit value</i>	7.90	7.91	7.90	11.86	11.90	11.90

Resultado del ensayo / *Test result (km/h)*CORRECT

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• Resultados del ensayo (en mph) / *Test results (in mph)*

Velocidad indicada / <i>Read speed</i>	25	25	25	50	50	50
Velocidad real / <i>Actual speed</i>	24.4	24.3	24.4	49.3	49.2	49.4
Diferencia (indicada-real) / <i>Difference (read-actual)</i>	0.6	0.7	0.6	0.7	0.8	0.6
Valor límite / <i>Limit value</i>	4.92	4.91	4.92	7.41	7.40	7.42

Resultado del ensayo / *Test result (mph)*CORRECT

EQUIPOS DE ENSAYO / TEST EQUIPEMENTS

- DGPS Sistema completo de adquisición de datos /
DGPS Full data acquisition system:

Fabricante / *Manufacturer* : Racelogic Ltd.
Modelo / *Model* : VB3i-V4G

Lugar del ensayo / *Test place* : NMQSII, Nanchang (China)
Fecha del ensayo / *Test date* : 02.03.2023



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APÉNDICE / APPENDIX M1PS/3/2014/XIII/01

**REQUISITOS APLICABLES A LAS PLAZAS DE ASIENTO (sillines y asientos) /
REQUIREMENTS APPLYING TO SEATING POSITIONS (saddles and seats)**

Reglamento Delegado (UE) / Delegated Regulation (EU) No. 3/2014/XIII*2016/1824

IDENTIFICACIÓN DEL VEHÍCULO PRESENTADO AL ENSAYO /
IDENTIFICATION OF THE VEHICLE SUBMITTED FOR TEST

Marca / Make ⁽¹⁾ : MANGOSTEEN
 Tipo / Type ⁽¹⁾ : M1PS
 Variantes/versiones ensayadas /
 Tested variants/versions ⁽¹⁾ : 01/01
 Variantes/versiones cubiertas /
 Covered variants/versions : 01/01
 Categoría, subcategoría y sub-subcategoría /
 Category, subcategory and sub-subcategory : L3e-A1
 Nº de bastidor / Frame number : R3M1S0101P1000001
 Fecha de recepción de la muestra /
 Date sample received : 22.02.2023

⁽¹⁾ Información proporcionada por el cliente. El laboratorio no se hace responsable de dicha información /
 Information provided by the client. The laboratory is not responsible for such information

CONDICIONES DE CARGA DEL VEHÍCULO / LOAD CONDITIONS OF THE VEHICLE

	P.O.M. ⁽¹⁾ + Baterías / M.R.O. ⁽¹⁾ + Batteries (kg)	P.O.M. + Baterías + Conductor / M.R.O. + Batteries + Driver (kg)
Delantero / Front	36	80
Posterior / Rear	52	115
TOTAL	88	195

⁽¹⁾ Peso en orden de marcha / Mass in running order

* LOS ENSAYOS HAN SIDO REALIZADOS POR IDIADA AUTOMOTIVE TECHNOLOGY, SA LABORATORIO ACREDITADO POR ENAC CON NÚMERO DE ACREDITACIÓN 35/LE2594 / THE TESTS HAVE BEEN CARRIED OUT BY IDIADA AUTOMOTIVE TECHNOLOGY; S.A. LABORATORY ACCREDITED BY ENAC WITH NUMBER OF ACCREDITATION 35/LE2594
 * LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA / THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE
 * QUEDA TERMINANTEMENTE PROHIBIDA LA REPRODUCCION PARCIAL DE ESTE INFORME SIN PERMISO EXPRESO DE IDIADA / THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN
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 * LA REGLA DE DECISIÓN UTILIZADA, SEGÚN LA NORMA ILAC-G8, HA SIDO LA DECLARACIÓN BINARIA DE ACEPTACIÓN SIMPLE / THE DECISION RULE USED, ACCORDING TO THE ILAC-G8 STANDARD, WAS THE BINARY STATEMENT FOR SIMPLE ACCEPTANCE



REQUISITOS PARA LAS PLAZAS DE ASIENTO / SEATING POSITIONS REQUIREMENTS

Vehículo provisto como mínimo de un asiento o sillín /
Vehicle fitted with at least one seat or saddle.....CORRECT

Tipo de plazas de asiento: sillines o asientos /
Type of seating positions: saddle or seatsCORRECT

Las plazas de asiento están orientadas hacia adelante /
Seating positions are forward-facing.....CORRECT

Altura del punto R / *Height of R-point position*: 660 ≥ 540 mm (Forma / *Shape 1*)
720 ≥ 540 mm (Forma / *Shape 2*).....CORRECT

Lugar del ensayo / *Test place* : NMQSII, Nanchang (China)

Fecha del ensayo / *Test date* : 28.02.2023

Validate this report with the security code «NF1QJWO4» at: <https://extranet.idiada.com/hom-cve>
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APÉNDICE / APPENDIX M1PS/3/2014/XV/01

**REQUISITOS APLICABLES A LA INSTALACIÓN DE NEUMÁTICOS /
REQUIREMENTS REGARDING THE INSTALLATION OF TYRES**
Reglamento Delegado (UE) / Delegated Regulation (EU) No. 3/2014/XV*2016/1824
IDENTIFICACIÓN DEL VEHÍCULO PRESENTADO AL ENSAYO /
IDENTIFICATION OF THE VEHICLE SUBMITTED FOR TEST

Marca / Make ⁽¹⁾	: MANGOSTEEN
Tipo / Type ⁽¹⁾	: M1PS
Variantes/versiones ensayadas / Tested variants/versions ⁽¹⁾	: 00/00, 01/01
Variantes/versiones cubiertas / Covered variants/versions	: 00/00, 01/01
Categoría, subcategoría y sub-subcategoría / Category, subcategory and sub-subcategory	: L3e-A1
Nº de bastidor / Frame number	: R3M1S0000P1000001, R3M1S0101P1000001
Velocidad Máxima / Maximum Speed	: 80km/h (00/00), 100 km/h (01/01)
Fecha de recepción de la muestra / Date sample received	: 22.02.2023

⁽¹⁾ Información proporcionada por el cliente. El laboratorio no se hace responsable de dicha información /
Information provided by the client. The laboratory is not responsible for such information

DATOS DE LOS NEUMÁTICOS / TYRE DATA

Variante /Versión / Variant/Version: 00/00

NEUMÁTICO / TYRE	1 ^{er} eje / 1 st axle	2 ^o eje / 2 nd axle
Contraseña de homologación / Type-approval mark	1. E4*75R00/18*16084*00 2. E4*75R00/19*05678*03	E4*75R00/19*16106*01
Marca de fábrica o comercial y modelo/ Trade name or make and model	1. TNT / J-2310 2. KINGSTONE / YX-P116	TNT / J-2332
Designación medida / Tyre size designation	130/70-12	215/40-12
Tipo utilización / Category of use	Normal	Normal
Estructura del neumático / Tyre structure	Diagonal	Diagonal
Símbolo categoría velocidad / Speed category symbol	1. L 2. K	M
Índice capacidad de carga / Load-capacity index	56	52
Dimensión montaje neum./llanta / Cross section profile dimension/rim	12×MT2.75 or 3.50×12	12×7.5

- * LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA /
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THE DECISION RULE USED, ACCORDING TO THE ILAC-G8 STANDARD, WAS THE BINARY STATEMENT FOR SIMPLE ACCEPTANCE



Variante / Versión / Variant / Version: 01/01

NEUMÁTICO / TYRE	1 ^{er} eje / 1 st axle	2 ^o eje / 2 nd axle
Contraseña de homologación / Type-approval mark	1. E4*75R00/19*17005*00 2. E4 75R-0007278	1. E9*75R00/17*1161*00 2. E4*75R00/18*16808*00
Marca de fábrica o comercial y modelo/ Trade name or make and model	1. CST / CM-SC01 2. KINGSTONE / YX-P159	1. FEIBEN / FB-683-01 2. KINGSTONE / YX-P417
Designación medida / Tyre size designation	120/80-14 M/C	215/40-13 M/C
Tipo utilización / Category of use	Normal	Normal
Estructura del neumático / Tyre structure	Diagonal	Diagonal
Símbolo categoría velocidad / Speed category symbol	1. S 2. P	J
Índice capacidad de carga / Load-capacity index	58	56
Dimensión montaje neum./llanta / Cross section profile dimension/rim	MT3.0×14 or 2.75×14	13*6.5J or 7.50×13

Montaje del neumático / Tyre fitting

Neumáticos del mismo tipo montados sobre un mismo eje /
Tyres fitted to a given axle are of the same typeNOT APPLICABLE

El neumático no interfiere con la carrocería en el caso de dimensiones y recorrido de suspensión más desfavorable / Tyres have unrestricted movement within the suspension, steering and wheel guard constraints provided by the vehicle manufacturerCORRECT

Distancia entre la envolvente máxima del neumático y la estructura del vehículo /
Clearance between the tyre's maximum envelope and vehicle structureCORRECT

Capacidad de carga / Load capacity

Nivel de carga máxima de los neumáticos / Maximum load ratingCORRECT

Capacidad de velocidad / Speed capability

Compatibilidad del símbolo de velocidad /
Compatibility of speed category symbol.....CORRECT

Neumáticos de nieve o multiservicio /
Snow or multiservice tyresNOT APPLICABLE

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CASOS ESPECIALES / SPECIAL CASES

Vehículos con neumáticos homologados según Directiva 92/23/CEE, Reglamento (UE) 661/2008 o UN-Reglamento 106 y adecuados para las condiciones de funcionamiento del vehículo / *Vehicles with tyres approved according to Directive 92/23, Regulation EU 661/2009 or Regulation UNECE N°106 and suitable for the vehicle's operating conditions***NOT APPLICABLE**

Vehículos de categorías L1e, L2e y L6e con una MMTA ≤ 150 kg con neumáticos no homologados con un ancho de sección ≤ 67 mm / *Vehicles of categories L1e, L2e and L6e with TPMM ≤ 150 kg fitted with non-type-approved tyres with a section width ≤ 67 mm***NOT APPLICABLE**

PRESIÓN NEUMÁTICOS / TYRE PRESSURES

Etiqueta en el vehículo / *Label attached to the vehicle***CORRECT**

Situación y fijación / *Location and fixing method***CORRECT**

Información incluida en el manual de usuario / *Information stated on owner's manual***CORRECT**

Lugar del ensayo / *Test place* : NMQSII, Nanchang (China)
Fecha del ensayo / *Test date* : 28.02.2023

Anpeng(apple) Li
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HOMOLOGATION ENGINEER

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APÉNDICE / APPENDIX M1PS/3/2014/XIX/01

**REQUISITOS RELATIVOS A LA INTEGRIDAD DE LA ESTRUCTURA DEL VEHÍCULO /
REQUIREMENTS REGARDING VEHICLE STRUCTURE INTEGRITY**

Reglamento Delegado (UE) / Delegated Regulation (EU) No. 3/2014/XIX*2016/1824

IDENTIFICACIÓN DEL VEHÍCULO / IDENTIFICATION OF THE VEHICLE

Marca / Make : MANGOSTEEN
 Tipo / Type : M1PS
 Variante(s)/versión(es) / Variant(s)/version(s) : 00/00, 01/01
 Categoría, subcategoría y sub-subcategoría /
 Category, subcategory and sub-subcategory : L3e-A1

Declaración del fabricante de la integridad de la estructura del vehículo /
 Manufacturer vehicle structure integrity statementCORRECT

Lugar / Place : Hong Kong, China
 Fecha / Date : 05.03.2023

Anpeng(apple) Li
 INGENIERO DE HOMOLOGACIONES
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APÉNDICE / APPENDIX M1PS/44/2014/IV/01

REQUISITOS APLICABLES A LA CONFORMIDAD DE LA PRODUCCIÓN /
REQUIREMENTS APPLYING TO CONFORMITY OF PRODUCTION

Reglamento Delegado (UE) / Delegated Regulation (EU) No. 44/2014/IV*2018/295

IDENTIFICACIÓN DEL VEHÍCULO / IDENTIFICATION OF THE VEHICLE

Marca / Make : MANGOSTEEN
 Tipo / Type : M1PS
 Variante(s)/versión(es) / Variant(s)/version(s) : 00/00, 01/01
 Categoría, subcategoría y sub-subcategoría /
 Category, subcategory and sub-subcategory : L3e-A1

La autoridad de homologación ha verificado la existencia de disposiciones y procedimientos satisfactorios establecidos por el fabricante para garantizar el control eficaz, de manera que los vehículos, sistemas, componentes o unidades técnicas independientes en el momento de la producción sean conformes con el tipo homologado / *The approval authority has verified the existence of satisfactory arrangements and procedures established by the manufacturer for ensuring effective control so that vehicles, systems, components or separate technical units when in production conform to the approved type*.....CORRECT

Lugar / Place : Hong Kong, China
 Fecha / Date : 05.03.2023



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APÉNDICE / APPENDIX M1PS/44/2014/VII/01

REQUISITOS APLICABLES A LA COMPATIBILIDAD ELECTROMAGNÉTICA (CEM) /
REQUIREMENTS APPLYING TO ELETROMAGNETIC COMPATIBILITY (EMC)

Reglamento Delegado (UE) / Delegated Regulation (EU) No. 44/2014/VII*2018/295

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IDENTIFICATION OF THE VEHICLE SUBMITTED FOR TEST

Marca / Make ⁽¹⁾	: MANGOSTEEN
Tipo / Type ⁽¹⁾	: M1PS
Variantes/versiones ensayadas / Tested variants/versions ⁽¹⁾	: 01/01
Variantes/versiones cubiertas / Covered variants/versions	: 01/01
Categoría, subcategoría y sub-subcategoría / Category, subcategory and sub-subcategory	: L3e-A1
Nº de bastidor / Frame number	: R3M1S0101P1000001
Fecha de recepción de la muestra / Date sample received	: 22.02.2023

⁽¹⁾ Información proporcionada por el cliente. El laboratorio no se hace responsable de dicha información /
Information provided by the client. The laboratory is not responsible for such information

ESPECIFICACIONES DEL VEHÍCULO / SPECIFICACION OF THE VEHICLE

- Motor / Motor

Marca / Make	: Quanshun
Tipo/Nº motor / Type/Motor No.	: MGSD72VA / 600125
Voltaje operativo / Operatationg voltage	: 72 V
Potencia máxima / Maximum power	: 5.0 kW a / at 800 min ⁻¹
Controlador de potencia / Power controller	: MG72V270A_27_2_H67
- Caja de cambio / Gearbox

Tipo / Type	: Without gearbox (wheel hub motor)
Nº velocidades / No. of gear ratios	: N.A.
- Batería / Battery

Tipo / Type	: Li-Ion
Capacidad / Capacity	: 80 Ah, 72 V
- Velocidad máxima declarada /
Maximum declared speed : 100 km/h

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**ENSAYOS ADICIONALES SIN REESS ACOPLADO A LA RED / TEST WITHOUT REESS
CHARGING MODE COUPLED TO THE POWER GRID**

DISPOSICIONES SOBRE LA RADIACIÓN DE BANDA ANCHA /
REQUIREMENTS RELATING TO BROAD-BAND RADIATION FROM VEHICLES

Configuración del ensayo / Configuration of test:

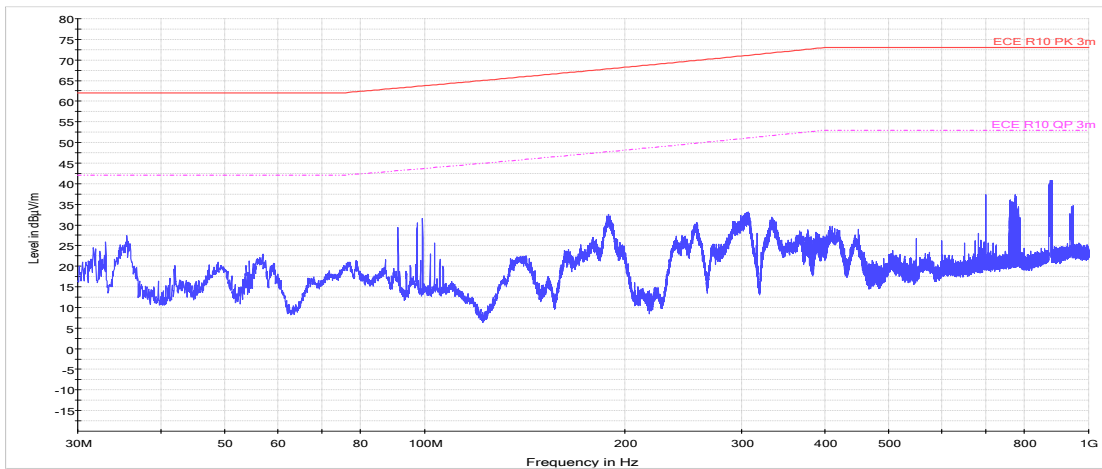
De acuerdo a los requisitos prescritos en el Anexo 4 del Reglamento CEPE nº 10.06 /
According to requirements prescribed in the Annex 4 of UNECE Regulation No. 10.06

Distancia de medida / Measuring distance: 3 m

Tipo de detector / Detector type : Pico / Peak

Resultados de ensayo / Test results : Ver páginas 2 a 3 / See pages 2 to 3

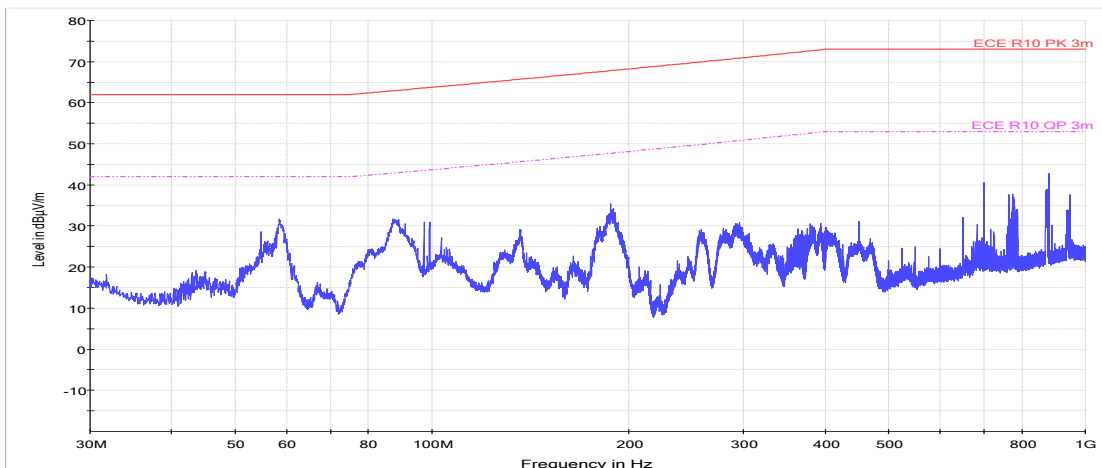
- Horizontal, lado derecho / Horizontal, right-hand side



Blue: Peak detector

Resultado de las disposiciones sobre la radiación de banda ancha /
Results relating to broad-band radiation.....CORRECT

- Vertical, lado derecho / Vertical, right-hand side



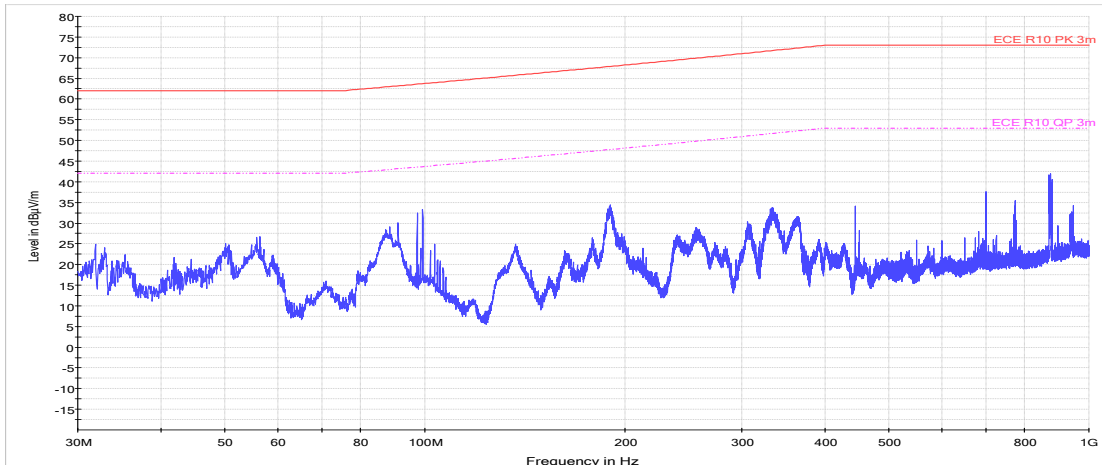
Blue: Peak detector

Resultado de las disposiciones sobre la radiación de banda ancha /
Results relating to broad-band radiation.....CORRECT

* LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA /
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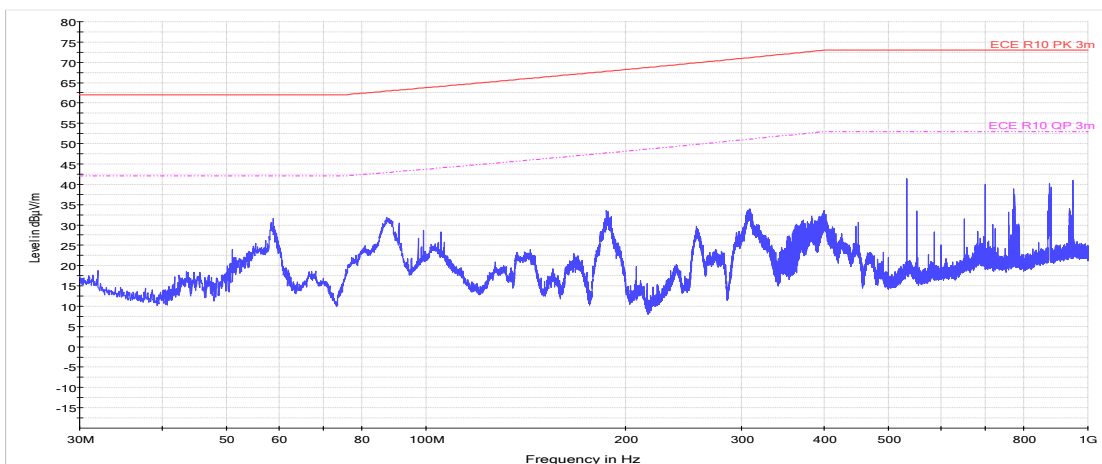
- Horizontal, lado izquierdo / Horizontal, left-hand side



Blue: Peak detector

Resultado de las disposiciones sobre la radiación de banda ancha /
Results relating to broad-band radiation.....CORRECT

- Vertical, lado izquierdo / Vertical, left-hand side



Blue: Peak detector

Resultado de las disposiciones sobre la radiación de banda ancha /
Results relating to broad-band radiation.....CORRECT

Validate this report with the security code «NF1QJWO4» at: <https://extranet.idiada.com/hom-cve>
 Verifique el informe con código de seguridad «NF1QJWO4» en: <https://extranet.idiada.com/hom-cve>

CN23040135

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DISPOSICIONES SOBRE LA RADIACIÓN DE BANDA ESTRECHA /
REQUIREMENTS RELATING TO NARROW-BAND RADIATION FROM VEHICLES

Configuración del ensayo / *Configuration of test:*

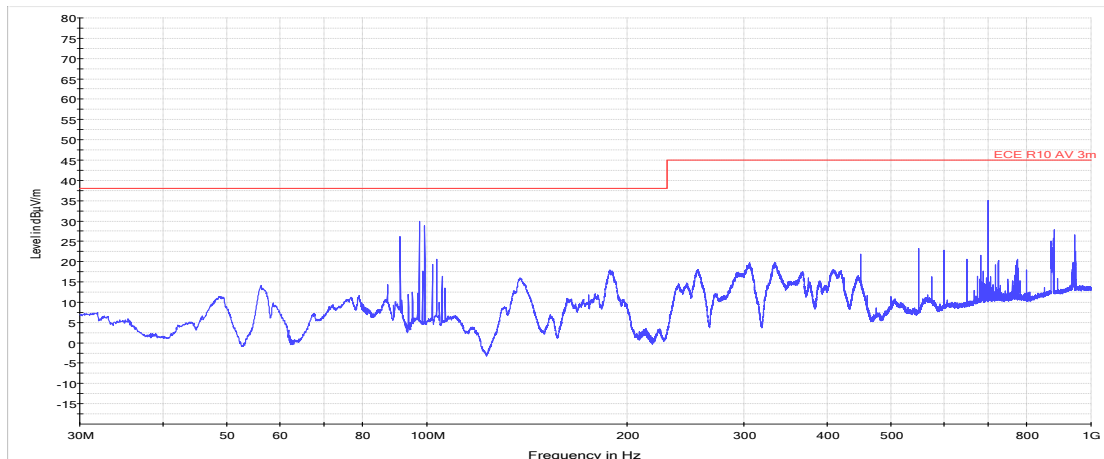
De acuerdo a los requisitos prescritos en el Anexo 5 del Reglamento CEPE n° 10.06 /
According to requirements prescribed in the Annex 5 of UNECE Regulation No. 10.06

Distancia de medida / *Measuring distance:* 3 m

Tipo de detector / *Detector type* : Media / *Average*

Resultados de ensayo / *Test results* : Ver páginas 4 a 5 / *See pages 4 to 5*

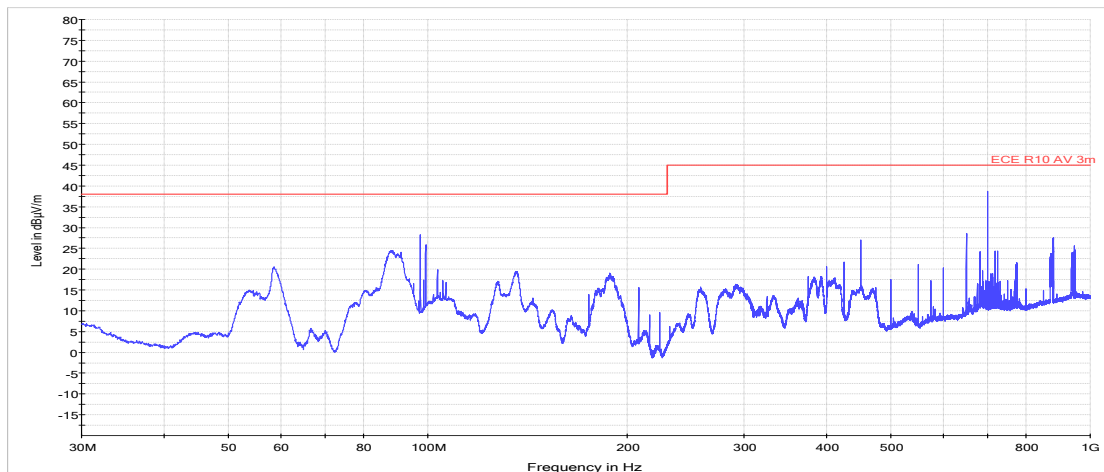
- Horizontal, lado derecho / *Horizontal, right-hand side*



Blue: Average detector

Resultado de las disposiciones sobre la radiación de banda estrecha /
Results relating to narrow-band radiationCORRECT

- Vertical, lado derecho / *Vertical, right-hand side*



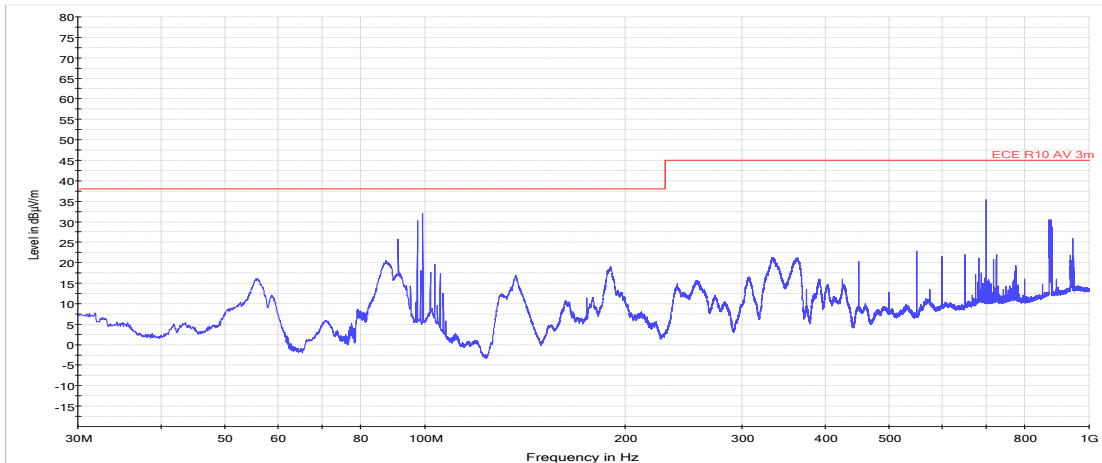
Blue: Average detector

Resultado de las disposiciones sobre la radiación de banda estrecha /
Results relating to narrow-band radiationCORRECT

* LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA /
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THE DECISION RULE USED, ACCORDING TO THE ILAC-G8 STANDARD, WAS THE BINARY STATEMENT FOR SIMPLE ACCEPTANCE



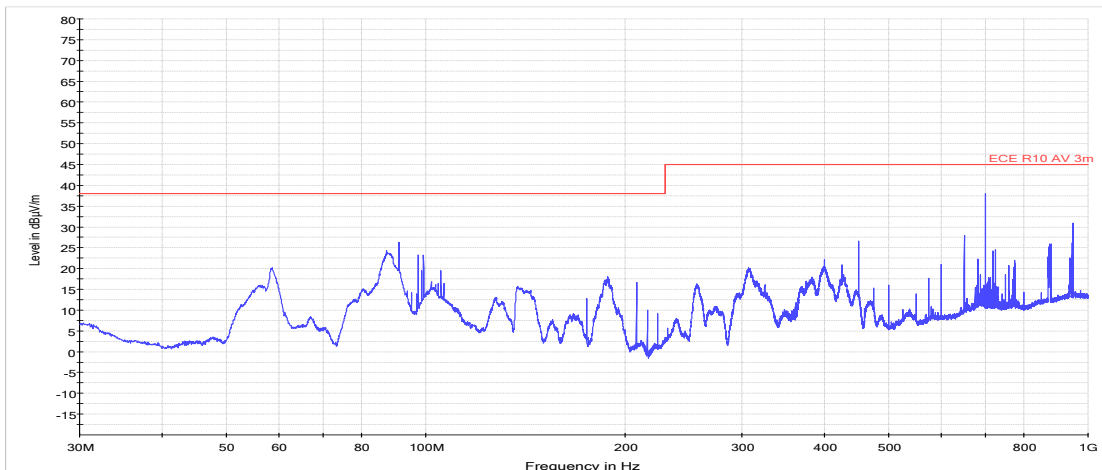
- Horizontal, lado izquierdo / Horizontal, left-hand side



Blue: Average detector

Resultado de las disposiciones sobre la radiación de banda estrecha /
 Results relating to narrow-band radiationCORRECT

- Vertical, lado izquierdo / Vertical, left-hand side



Pink: Average detector

Resultado de las disposiciones sobre la radiación de banda estrecha /
 Results relating to narrow-band radiationCORRECT

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 IDIADA Automotive Technology, S.A. N.I.F. A43581610 Servicio Técnico Designado de Homologación (TS)



IMMUNIDAD A LA RADIACIÓN ELECTROMAGNÉTICA /
IMMUNITY TO ELECTROMAGNETIC RADIATION

Configuración del ensayo / *Configuration of test:*

De acuerdo a los requisitos prescritos en el Anexo 6 del Reglamento CEPE nº 10.06 /
According to requirements prescribed in the Annex 6 of UNECE Regulation No. 10.06

- Funcionamiento vehículo / *Vehicle functioning*

Ciclo 50 km/h / *50 km/h cycle*

Intensidad de campo soportada por el vehículo /
Maximum field strength level : 30 V/m

Entre frecuencia de banda /
Between frequency band : 20-2000 MHz

Velocidad durante el ensayo /
Speed during the test : 50 km/h

Antenna	Biconical	Log. periodic.	Log. periodic.	Horn
Frequency	20-120 MHz	120-800 MHz	800-1000 MHz	1-2 GHz
Modulation	AM	AM	PM	PM
Polarity	Vertical	Vertical	Vertical	Vertical
Front Face	PASS	PASS	PASS	PASS

Radiated Immunity test results

Resultado de las disposiciones sobre la inmunidad a la radiación electromagnética /
Results relating to the immunity to electromagnetic radiationCORRECT

- Funcionamiento vehículo / *Vehicle functioning*

Ciclo de freno / *Brake cycle*

Intensidad de campo soportada por el vehículo /
Maximum field strength level : 30 V/m

Entre frecuencia de banda /
Between frequency band : 20-2000 MHz

Velocidad durante el ensayo /
Speed during the test : 0 km/h

Activación de las luces de circulación diurna o luces frontal /
Activation of daytime running lamp or headlampCORRECT

Antenna	Biconical	Log. periodic.	Log. periodic.	Horn
Frequency	20-120 MHz	120-800 MHz	800-1000 MHz	1-2 GHz
Modulation	AM	AM	PM	PM
Polarity	Vertical	Vertical	Vertical	Vertical
Front Face	PASS	PASS	PASS	PASS

Radiated Immunity test results

Resultado de las disposiciones sobre la inmunidad a la radiación electromagnética /
Results relating to the immunity to electromagnetic radiationCORRECT

* LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA /
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ENSAYOS ADICIONALES CON REESS ACOPLADO A LA RED / *ADDITIONAL TEST WITH REESS CHARGING MODE COUPLED TO THE POWER GRID*

DISPOSICIONES SOBRE LA RADIACIÓN DE BANDA ANCHA EN LA CONFIGURACION DE REESS ACOPLADO A LA RED / *REQUIREMENTS RELATING TO BROAD-BAND RADIATION IN CONFIGURATION "REESS CHARGING MODE COUPLED TO THE POWER GRID"*

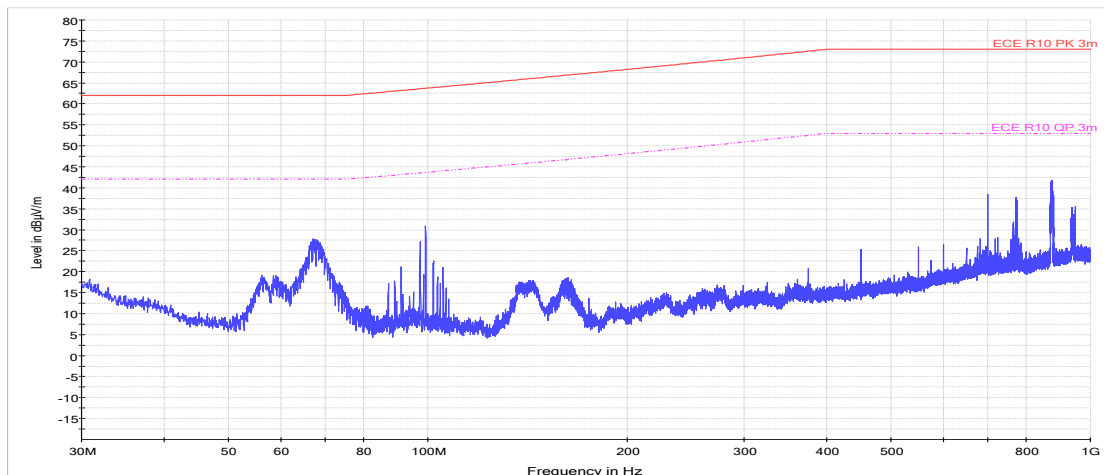
Configuración del ensayo / *Configuration of test:*

De acuerdo a los requisitos prescritos en el apartado 7.2 y Anexo 4 del Reglamento 10.06 CEPE / *According to requirements prescribed in section 7.2 and Annex 4 of Regulation 10.06 ECE*

- Distancia de medida / *Measuring distance* : 3 m
- Distancia de la red artificial / *Artificial network distance* : 0.8 m
- Estado de carga de baterías durante el ensayo / *Batteries state of charge during test* : 20% ~ 80 %
- Tipo de detector / *Detector type* : Pico / *Peak*
- Modo carga en AC / *Charge mode AC*

- Resultados del ensayo / *Test results*

- Horizontal, lado derecho / *Horizontal, right-hand side*



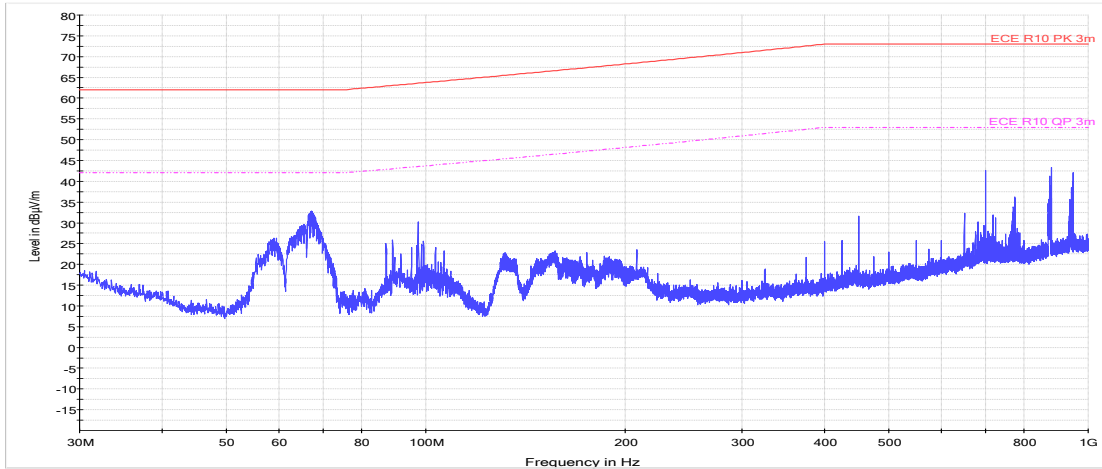
Blue: Peak detector

Resultado de las disposiciones sobre la radiación de banda ancha acoplado a la red / *Results relating to broad-band radiation coupled to the power gridCORRECT*

* LOS RESULTADOS PRESENTADOS SE REFIEREN UNICAMENTE A LA MUESTRA ENSAYADA / *THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE*
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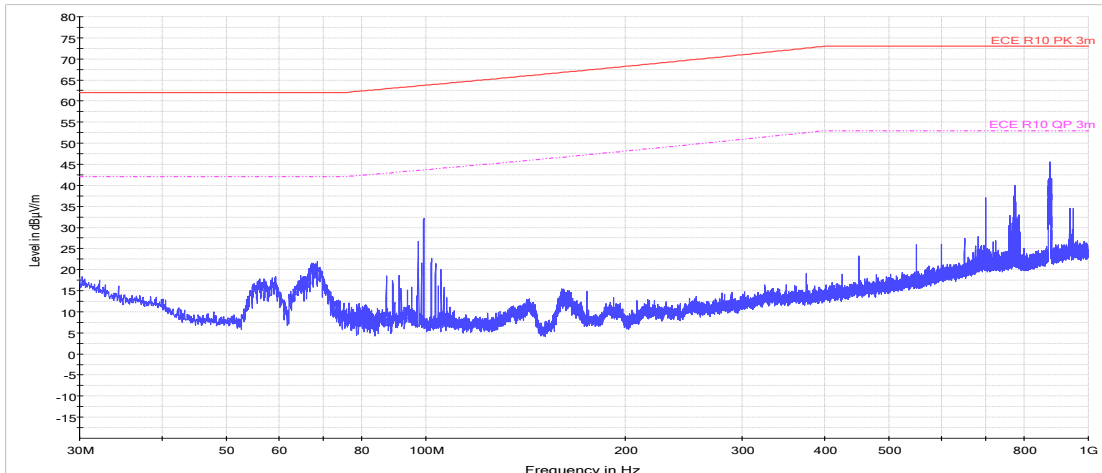
- Vertical, lado derecho / Vertical, right-hand side



Blue: Peak detector

Resultado de las disposiciones sobre la radiación de banda ancha acoplado a la red /
 Results relating to broad-band radiation coupled to the power gridCORRECT

- Horizontal, lado izquierdo / Horizontal, left-hand side



Blue: Peak detector

Resultado de las disposiciones sobre la radiación de banda ancha acoplado a la red /
 Results relating to broad-band radiation coupled to the power gridCORRECT

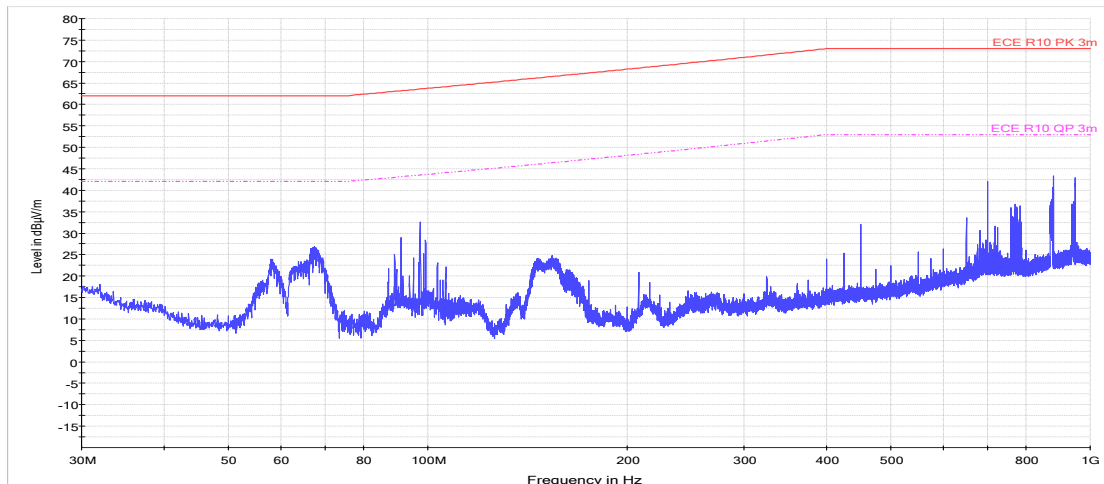
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- Vertical, lado izquierdo / Vertical, left-hand side



Blue: Peak detector

Resultado de las disposiciones sobre la radiación de banda ancha acoplado a la red /
 Results relating to broad-band radiation coupled to the power gridCORRECT

INMUNIDAD A LA RADIACIÓN ELECTROMAGNÉTICA – MODOS DE CARGA CA y CC /
IMMUNITY TO ELECTROMAGNETIC RADIATION – AC AND DC CHARGING MODES

Configuración del ensayo / Configuration of test:

De acuerdo a los requisitos prescritos en el apartado 7.7 y Anexo 6 del Reglamento 10.06 CEPE /
 According to requirements prescribed in the section 7.7 and Annex 6 of Regulation 10.06 ECE

Intensidad de campo soportada por el vehículo /
 Maximum field strength level : 30 V/m

Distancia de la red artificial /
 Artificial network distance : 0.8 m

Estado de carga de baterías durante el ensayo /
 Batteries state of charge during test : 20% ~ 80 %

Se aplica el método de ensayo alternativo con arreglo a la norma ISO 11451-1:2005+A1:2008 crear las condiciones del campo / It has been used the alternative test method according to ISO 11451-1:2005+A1:2008 to create the field conditions

• Resultados del ensayo / Test results

Frequency	20-80 MHz	80-800 MHz	800-1000 MHz	1-2 GHz
Mod.	AM	AM	PM	PM
Polarity	Vertical	Vertical	Vertical	Vertical
Front face	PASS	PASS	PASS	PASS

Anomalías o malfuncionamientos observados / Observed malfunctions: Ninguno / None

Elementos afectados / Affected elements: Ninguno / None

Resultado de las disposiciones sobre la inmunidad a la radiación electromagnética / Results relating to the immunity to electromagnetic radiationCORRECT

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EMISION DE ARMÓNICOS EN LÍNEAS DE CA EN LA CONFIGURACIÓN REESS EN MODO CARGA/
EMISSION OF HARMONICS IN AC POWER LINES IN THE CONFIGURATION REESS CHARGING MODE

Configuración del ensayo / *Configuration of test:*

De acuerdo a los requisitos prescritos en el apartado 7.3 y Anexo 11 del Reglamento 10.06 CEPE /
According to requirements prescribed in section 7.3 and Annex 11 of Regulation 10.06 ECE

Intensidad de entrada por fase / *Phase input current* : ≤ 16 A

Estado de carga de baterías durante el ensayo /
Batteries state of charge during test : 20% ~ 80 %

Las mediciones de armónicos en las líneas de alimentación de CA generadas por el vehículo se han realizado según la IEC 61000-3-2 (≤ 16A) / *The armonic measurements on the lines of AC power generated by the vehicle were performed in accordance with IEC 61000-3-2 (≤ 16A)*

• Resultados del ensayo / *Test results*

Resultados del E.U.T. / *Test results E.U.T.:*

% del límite / % of limit	Resultados / Result
Armónicos / <i>Harmonics</i> > 200%	Cumple / <i>fulfils</i>
Armónicos con promedio / <i>Harmonics with average</i> > 90%	Cumple / <i>fulfils</i>
Armónicos entre 150% y 200% no más que 10% del tiempo de medición o máx. 10min / <i>Harmonics between 150% and 200% not longer as 10% of the measuring time or max. 10min</i>	Cumple / <i>fulfils</i>

Resultados del fuente de AC / *Test results AC source:*

% del límite / % of limit	Resultados / Result
Primeros datos que superan el valor límite / <i>First data exceeding limit value</i>	No Detectado / <i>No Detect</i>
Armónicos que superan el valor límite / <i>Harmonics exceeding limit value</i>	No Detectado / <i>No Detect</i>

Resultado de las disposiciones sobre los armónicos en líneas de alimentación AC /
Results relating to harmonics on AC power lines.....CORRECT

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IDIADA Automotive Technology, S.A. N.I.F. A43581610 Servicio Técnico Designado de Homologación (TS)



DISPOSICIONES SOBRE LA EMISIÓN DE VARIACIÓN DE TENSIÓN, FLUCTUACIONES DE TENSIÓN Y FLICKER EN LÍNEAS DE AC / REQUIREMENT RELATING TO EMISSION OF VOLTAGE CHANGES, VOLTAGE FLUCTUATION AND FLICKER ON AC POWER LINES

Configuración del ensayo / Configuration of test:

De acuerdo a los requisitos prescritos en el apartado 7.4 y Anexo 12 del Reglamento 10.06 CEPE / According to requirements prescribed in section 7.4 and Annex 12 of Regulation 10.06 ECE

Estado de carga de baterías durante el ensayo /

Batteries state of charge during test : 20% ~ 80 %

Longitud del cable de carga / Charging cable length : Max. 10 m

Intensidad de entrada por fase / Phase input current : ≤ 16 A

Limites aplicables / Applicable limits : IEC 61000-3-3

• Resultados del ensayo / Test results

	Valor máximo medido / Max measured value	Límite / Limit
Flicker de corta duración / Short duration flicker	0.045	1
Flicker de larga duración / Long duration flicker	0.045	0.65

Resultado de la emisión de flicker en líneas de alimentación AC /

Results relating to flicker on AC power linesCORRECT

EMISIÓN DE PERTURBACIONES CONDUCCIDAS EN LÍNEAS AC EN LA CONFIGURACIÓN REESS EN MODO DE CARGA/ EMISSION OF RADIOFREQUENCY CONDUCTED DISTURBANCES ON AC POWER LINES IN THE CONFIGURATION REESS CHARGING MODE

Configuración del ensayo / Configuration of test:

De acuerdo a los requisitos prescritos en el apartado 7.5 y Anexo 13 del Reglamento 10.06 CEPE / According to requirements prescribed in section 7.5 and Annex 13 of Regulation 10.06 ECE

Estado de carga de baterías durante el ensayo /

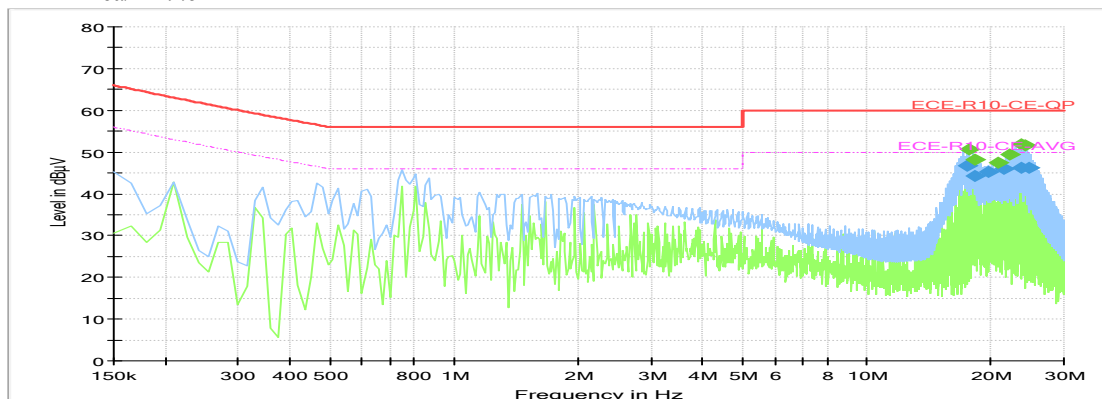
Batteries state of charge during test : 20% ~ 80 %

Tipo de detector / Detector type

: Cuasi pico y media / Quasi peak and average

• Resultados del ensayo / Test results

• L línea/L Line

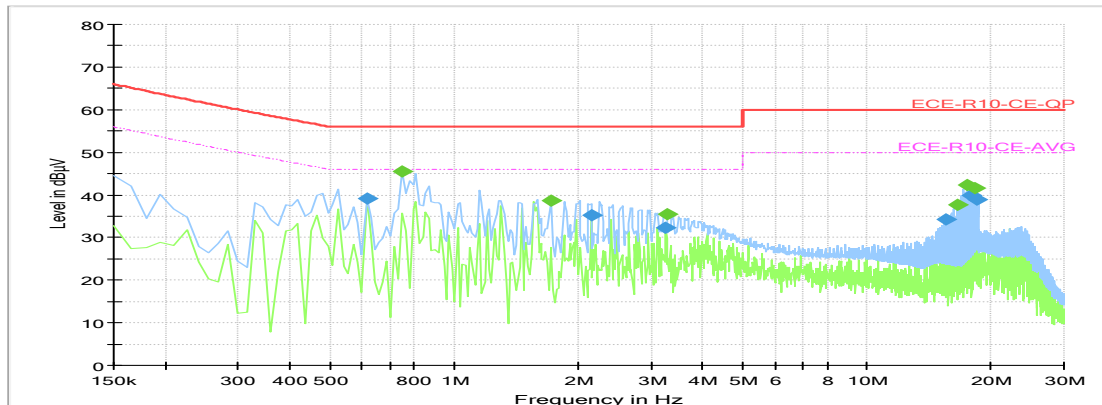


Blue: Quasi peak detector, Green: Average detector

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• N línea/N Line



Blue: Quasi peak detector, Green: Average detector

Resultado de las disposiciones sobre la emisión de perturbaciones conducidas de radiofrecuencia generadas por el vehículo en líneas de alimentación AC / Results relating to emission radiofrequency conducted disturbances on AC power lines.....CORRECT

INMUNIDAD DE LOS VEHÍCULOS A LOS TRANSITORIOS ELÉCTRICOS RÁPIDOS- EN RÁFAGAS, EN LÍNEAS ALIMENTACIÓN DE CA EN LA CONFIGURACIÓN REESS, EN MODO DE CARGA / IMMUNITY OF VEHICLE TO ELECTRICAL FAST TRANSIENTS -BURSTS IN AC POWER LINES, IN THE CONFIGURATION REESS IN CHARGING MODE

Configuración del ensayo / Configuration of test:

De acuerdo a los requisitos prescritos en el apartado 7.8 y Anexo 15 del Reglamento 10.06 CEPE / According to requirements prescribed in section 7.8 and Annex 15 of Regulation 10.06 ECE

- Distancia al EFT/B / EFT/B distance : 0.8 m
- Estado de carga de baterías durante el ensayo / Batteries State of charge during test : 20% ~ 80 %
- Amplitud del pulso / Pulse amplitude : 2.0 kV (AC power port)
- Frecuencia de repetición / Repetition rate : 5 kHz durante / during 1 min

El ensayo para determinar la inmunidad a los transitorios rápidos – Ráfagas, se ha realizado según la norma IEC 61000-4-4 (±2kV) / The test to determine immunity to fast transients – Burst, has been performed according to standards IEC 61000-4-4 (±2kV)

Resultado de las disposiciones sobre la inmunidad a los transitorios eléctricos rápidos en ráfagas conducidos en las líneas de alimentación de AC la radiación electromagnética / Results relating to the immunity electricay fast transient/burst disturbances conducted along AC power lines.....CORRECT

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INMUNIDAD DE LOS VEHÍCULOS A LAS ONDAS DE CHOQUE CONDUCIDAS EN LAS LÍNEAS DE ALIMENTACIÓN DE AC, EN LA CONFIGURACIÓN REESS EN MODO DE CARGA / IMMUNITY OF VEHICLES TO SURGES CONDUCTED ALONG AC POWER LINES, IN THE CONFIGURATION REESS CHARGING MODE.

Configuración del ensayo / *Configuration of test:*

De acuerdo a los requisitos prescritos en el apartado 7.9 y Anexo 16 del Reglamento 10.06 CEPE / *According to requirements prescribed in section 7.9 and Annex 16 of Regulation 10.06 ECE*

Distancia al generador de ondas de choque / *Distance of the surge generator* : 0.8 m
 Estado de carga de baterías durante el ensayo / *Batteries State of charge during test* : 20% ~ 80 %
 Amplitud del pulso / *Pulse amplitude* : 2.0 kV (Common mode AC power port)
 1.0 kV (Differential mode AC power port)

Resultado de las disposiciones sobre la inmunidad a las ondas de choque conducidas en las líneas de alimentación de AC / *Results relating to the immunity of vehicles to surge conducted along AC power lines*CORRECT

EQUIPO DE ENSAYO / TEST EQUIPMENT

• Emisiones radiadas / *Radiated Emissions:*

Fabricante / *Manufacturer* : R&S Receiver
 Modelo / *Model* : ESR 7
 Fabricante / *Manufacturer* : ETS.LINDGREN Antenna
 Modelo / *Model* : 3142C
 Fabricante / *Manufacturer* : ETS.LINDGREN Antenna
 Modelo / *Model* : 3109PX

• Inmunidad radiada / *Radiated Immunity:*

Fabricante / *Manufacturer* : KEYSIGHT Generator
 Modelo / *Model* : N5171B
 Fabricante / *Manufacturer* : SCHWARZBECK Antenna
 Modelo / *Model* : BBHA 9120J +BBHA 9120E
 Fabricante / *Manufacturer* : SCHWARZBECK Antenna
 Modelo / *Model* : STLP 9128 ESP-7/16
 Fabricante / *Manufacturer* : R&S Antenna
 Modelo / *Model* : HL046

Lugar del ensayo / *Test place* : NMQSII, Nanchang (China)
 Fecha del ensayo / *Test date* : 22 a / to 28.03.2023



Anpeng(apple) Li
 INGENIERO DE HOMOLOGACIONES
 HOMOLOGATION ENGINEER

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APÉNDICE / APPENDIX M1PS/44/2014/VIII/01
REQUISITOS APLICABLES A LOS SALIENTES EXTERIORES /
REQUIREMENTS APPLYING TO EXTERNAL PROJECTIONS

Reglamento Delegado (UE) / Delegated Regulation (EU) No. 44/2014/VIII*2018/295

IDENTIFICACIÓN DEL VEHÍCULO PRESENTADO AL ENSAYO /
IDENTIFICATION OF THE VEHICLE SUBMITTED FOR TEST

Marca / <i>Make</i> ⁽¹⁾	:	MANGOSTEEN
Tipo / <i>Type</i> ⁽¹⁾	:	M1PS
Variantes/versiones ensayadas / <i>Tested variants/versions</i> ⁽¹⁾	:	01/01
Variantes/versiones cubiertas / <i>Covered variants/versions</i>	:	01/01
Categoría, subcategoría y sub-subcategoría / <i>Category, subcategory and sub-subcategory</i>	:	L3e-A1
Nº de bastidor / <i>Frame number</i>	:	R3M1S0101P1000001
Fecha de recepción de la muestra / <i>Date sample received</i>	:	22.02.2023

⁽¹⁾ Información proporcionada por el cliente. El laboratorio no se hace responsable de dicha información /
Information provided by the client. The laboratory is not responsible for such information

REQUISITOS GENERALES / GENERAL REQUIREMENTS

La parte exterior del vehículo no presenta elementos puntiagudos ni cortantes que puedan resultar peligrosos en caso de accidente / *Outside of vehicle incorporates no pointed or sharp parts that could be dangerous in the event of an accident*CORRECT

Salientes del grupo 1 / *Group 1 parts* ($\alpha \leq 45^\circ$):

- Placa(s) / *Plate(s)*CORRECT
- Varilla(s) / *Stem(s)*NONE

Salientes del grupo 2 / *Group 2 parts* ($\alpha > 45^\circ$):

- Placa(s) / *Plate(s)*CORRECT
- Varilla(s) / *Stem(s)*NONE

Observaciones / *Remarks*: ---

* LOS ENSAYOS HAN SIDO REALIZADOS POR IDIADA AUTOMOTIVE TECHNOLOGY, SA LABORATORIO ACREDITADO POR ENAC CON NÚMERO DE ACREDITACIÓN 35/LE2594 / *THE TESTS HAVE BEEN CARRIED OUT BY IDIADA AUTOMOTIVE TECHNOLOGY, S.A. LABORATORY ACCREDITED BY ENAC WITH NUMBER OF ACCREDITATION 35/LE2594*

* LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA / *THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE*

* QUEDA TERMINANTEMENTE PROHIBIDA LA REPRODUCCION PARCIAL DE ESTE INFORME SIN PERMISO EXPRESO DE IDIADA / *THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN*

* EL LABORATORIO HA CALCULADO LA INCERTIDUMBRE DE MEDIDA ASOCIADA A LOS RESULTADOS / *MEASUREMENT UNCERTAINTY OF THE RESULTS HAS BEEN CALCULATED BY THE LABORATORY*

* LA REGLA DE DECISIÓN UTILIZADA, SEGÚN LA NORMA ILAC-G8, HA SIDO LA DECLARACIÓN BINARIA DE ACEPTACIÓN SIMPLE / *THE DECISION RULE USED, ACCORDING TO THE ILAC-G8 STANDARD, WAS THE BINARY STATEMENT FOR SIMPLE ACCEPTANCE*



ESPECIFICACIONES PARTICULARES / SPECIFIC REQUIREMENTS

- Borde superior del parabrisas o carenado /
Upper edge of the windscreen or fairingNOT APPLICABLE
- Palancas manuales de embrague y freno / *Clutch and brake levers*
 - Extremos de las palancas claramente esféricos /
End of levers perceptibly sphericalCORRECT
 - Radio de curvatura palancas ≥ 7 mm /
The levers have a radius of curvature of at least 7 mmCORRECT
 - Bordes exteriores de la palanca ≥ 2 mm /
Levers outer edges of at least 2 mmCORRECT
- Guardabarros delantero : borde de ataque ≥ 2 mm /
Front mudguard: leading edge ≥ 2 mmCORRECT
- Tapón del depósito de combustible / *Filler cap of the fuel tank*NOT APPLICABLE
- Llave de contacto con protección / *The ignition keys have protective cap*CORRECT

Lugar del ensayo / *Test place* : NMQSII, Nanchang (China)
 Fecha del ensayo / *Test date* : 28.02.2023



Anpeng(apple) Li
 INGENIERO DE HOMOLOGACIONES
 HOMOLOGATION ENGINEER

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APÉNDICE / *APPENDIX* M1PS/44/2014/XI/01

REQUISITOS APLICABLES A MASAS Y DIMENSIONES / *REQUIREMENTS APPLYING TO MASSES AND DIMENSIONS*

Reglamento Delegado (UE) / *Delegated Regulation (EU) No. 44/2014/XI*2018/295*

IDENTIFICACIÓN DEL VEHÍCULO PRESENTADO AL ENSAYO /
IDENTIFICATION OF THE VEHICLE SUBMITTED FOR TEST

Marca / <i>Make</i> ⁽¹⁾	:	MANGOSTEEN
Tipo / <i>Type</i> ⁽¹⁾	:	M1PS
Variantes/versiones ensayadas / <i>Tested variants/versions</i> ⁽¹⁾	:	01/01
Variantes/versiones cubiertas / <i>Covered variants/versions</i>	:	01/01
Categoría, subcategoría y sub-subcategoría / <i>Category, subcategory and sub-subcategory</i>	:	L3e-A1
Nº de bastidor / <i>Frame number</i>	:	R3M1S0101P1000001
Fecha de recepción de la muestra / <i>Date sample received</i>	:	22.02.2023

⁽¹⁾ Información proporcionada por el cliente. El laboratorio no se hace responsable de dicha información /
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MASAS / *MASSES*

Masa en orden de marcha / <i>Mass in running order</i>	:	88 kg
L3e-AE ≤ 140 kg L3e-AT ≤ 100 kg		
Masa del equipo opcional / <i>Optional equipment mass</i>	:	--- kg
Masa de la batería de propulsión / <i>Battery propulsion mass</i>	:	32 kg
Masa real / <i>Actual mass</i>	:	195 kg
Masa máxima técnicamente admisible / <i>Technically permissible maximum mass</i>	:	245 kg
Masa útil máxima admisible / <i>Maximum pay-mass declared by</i> <i>the manufacturer (TPMM – Masa actual)</i>	:	50 kg

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THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE

* QUEDA TERMINANTEMENTE PROHIBIDA LA REPRODUCCION PARCIAL DE ESTE INFORME SIN PERMISO EXPRESO DE IDIADA /
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- La suma de las masas máximas técnicamente admisibles sobre los ejes no es inferior a la masa máxima en carga técnicamente admisible del vehículo / *The sum of the technically permissible maximum mass on the axles is not less than the technically permissible maximum laden mass of the vehicle*.....CORRECT
- La masa del equipo opcional no supera el 10% de los límites de masa en orden de marcha establecidos para la categoría de vehículo / *The mass of optional equipment is not more than 10 % of the mass in running order limit for the vehicle category*.....CORRECT
- La masa máxima en carga técnicamente admisible del vehículo no es inferior a la masa real / *The technically permissible maximum laden mass of the vehicle is not less than the actual mass*CORRECT
- Si el vehículo se carga hasta alcanzar la masa máxima en carga técnicamente admisible, la masa sobre cada eje no es superior a la masa máxima técnicamente admisible sobre dicho eje / *Where the vehicle is laden to the technically permissible maximum laden mass, the mass on each axle does not exceed the technically permissible maximum mass on that axle*CORRECT
- Si el vehículo se carga hasta alcanzar la masa máxima en carga técnicamente admisible, la masa sobre el eje delantero no es nunca inferior a un 30 % de la masa máxima en carga técnicamente admisible del vehículo / *Where the vehicle is laden to the technically permissible maximum laden mass, the mass on the front axle is in no event less than 30 % of the technically permissible maximum laden mass of the vehicle*CORRECT
- Si el vehículo se carga hasta alcanzar la masa máxima en carga técnicamente admisible más la masa máxima técnicamente admisible en el punto de acoplamiento, la masa sobre el eje delantero no es nunca inferior a un 20 % de la masa máxima en carga técnicamente admisible del vehículo / *Where the vehicle is laden to the technically permissible maximum laden mass plus the technically permissible maximum mass at the coupling point, the mass on the front axle is in no event less than 20 % of the technically permissible maximum laden mass of the vehicle*.....NOT APPLICABLE
- Requisitos aplicables a vehículos con asientos extraíbles / *Applicable requirements to vehicles with removable seats*NOT APPLICABLE
- Requisitos aplicables a la masa útil máxima admisible / *Applicable requirements to the maximum permissible pay-mass*CORRECT

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DIMENSIONES / DIMENSIONS

Longitud / <i>Length</i>	=	2070 (2070)	≤	4000 mm	CORRECT
Anchura / <i>Width</i>	=	870 (870)	≤	2000 mm (L3e vehicles)	CORRECT
Altura / <i>Height</i>	=	1090 (1090)	≤	2500 mm	CORRECT
Distancia entre ejes / <i>Wheelbase</i>	=	1540 (1540)	mm		CORRECT

Observaciones / *Remarks*: Los valores entre paréntesis corresponden a los declarados por el fabricante / *Values between parentheses are declared by the manufacturer*

Las dimensiones reales no difieren en más de un 3 % de las declaradas por el fabricante / *The actual dimensions not differ more than 3 % from those stated by the manufacturer*CORRECT

Lugar del ensayo / *Test place* : NMQSII, Nanchang (China)

Fecha del ensayo / *Test date* : 28.02.2023

Validate this report with the security code «NF1QJWO4» at: <https://extranet.idiada.com/hom-cve>
 Verifique el informe con código de seguridad «NF1QJWO4» en: <https://extranet.idiada.com/hom-cve>

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APÉNDICE / APPENDIX M1PS/44/2014/XV/01

REQUISITOS APLICABLES A LA INFORMACIÓN SOBRE REPARACIÓN Y MANTENIMIENTO /
REQUIREMENTS APPLYING TO ACCESS TO REPAIR AND MAINTENANCE INFORMATION

Reglamento Delegado (UE) / Delegated Regulation (EU) No. 44/2014/XV*2018/295

IDENTIFICACIÓN DEL VEHÍCULO / IDENTIFICATION OF THE VEHICLE

Marca / Make : MANGOSTEEN
 Tipo / Type : M1PS
 Variante(s)/versión(es) / Variant(s)/version(s) : 00/00, 01/01
 Categoría, subcategoría y sub-subcategoría /
 Category, subcategory and sub-subcategory : L3e-A1

El fabricante aporta un certificado declarando la disponibilidad de la información necesaria para la inspección, diagnosis, mantenimiento y reparación del vehículo. Este certificado sirve como única prueba de cumplimiento con los requisitos del Capítulo XV del Reglamento (EU) N° 168/2013 / *The manufacturer provides a certificate stating the availability of the information required for the inspection, diagnosis, servicing or repair of the vehicle. This certificate serves as the proof of compliance with Chapter XV of Regulation (EU) No 168/2013.....CORRECT*

Lugar / Place : Hong Kong, China
 Fecha / Date : 05.03.2023



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 INGENIERO DE HOMOLOGACIONES
 HOMOLOGATION ENGINEER

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DOCUMENTACIÓN TÉCNICA /
TECHNICAL DOCUMENTATION



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

Information

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

Information folder sheet

A duly completed version of this statement shall be included in the information folder.

The undersigned : < Mrs. Jian Tianxiu / General Manager >

Company name and address of the manufacturer : MANGOSTEEN TECHNOLOGY CO., LIMITED
FLAT 01C3, 10/F CARNIVAL COMMERCIAL
BUILDING 18 JAVA ROAD, North Point, HONG
KONG, CHINA

Name and address of the manufacturer's
representative (if any) : GreenKar Automotive S.r.l.
Via di Quarto Peperino, 22 CAP 00188 - Roma,
Italy

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) : MANGOSTEEN

0.2. Type : M1PS

0.2.1. Variant(s) : 00, 01

0.2.2. Version(s) : 00, 01

0.2.3. Commercial name(s) (if available) : M1PS

0.3. Category, subcategory and sub-subcategory
of vehicle : L3e-A1

Information to be filled in, if application is for type-approval of a system/ component/ separate technical unit:

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.

1.6. Virtual and/or self-testing: n.a.

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:



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

Overview table virtual and/or self-testing

Delegated act	Annex	Subject	Virtual and/or self- tested: yes/no
Commission Delegated Regulation (EU) No 134/2014 (*)	X	Testing procedures on maximum design vehicle speed	Self-testing: yes /no
Commission Delegated Regulation (EU) No 3/2014	II	Audible warning devices	Self-testing: yes /no
Commission Delegated Regulation (EU) No 3/2014	VIII	Driver-operated controls including identification of controls, tell-tales and indicators	Self-testing: yes /no
Commission Delegated Regulation (EU) No 3/2014	IX	Installation of lighting and light- signalling devices	Virtual testing: yes /no
Commission Delegated Regulation (EU) No 3/2014	X	Rearward visibility	Virtual testing: yes /no
Commission Delegated Regulation (EU) No 3/2014	XV	Installation of tyres	Virtual testing: yes /no
Commission Delegated Regulation (EU) No 44/2014	XIV	Registration plate space	Self & Virtual testing: yes /no
Commission Delegated Regulation (EU) No 44/2014	XVI	Stands	Self-testing: yes /no
This Commission Implementing Regulation	V	Statutory plate and EU type-approval mark	Self-testing: yes /no

(*) Commission Delegated Regulation (EU) No 134/2014 of 16 December 2013 supplementing Regulation (EU) No 168/2013 of the European Parliament and of the Council with regard to environmental and propulsion unit performance requirements and amending Annex V thereof (OJ L 53, 21.2.2014, p. 1).

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

Place : Hong Kong, China

Date : 18.02.2023

Signature :

简天秀



Name and position in the company : Mrs. Jian Tianxiu, General Manager



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

INFORMATION DOCUMENT CONCERNING THE APPROVAL OF A WHOLE VEHICLE TYPE

Index

Contents:

- 1) Brief technical description of vehicle configuration(s);
- 2) Information document;
- 3) List of drawings;

Annexes to information document:

- 1) Manufacturer's statement on endurance testing;
- 2) Manufacturer's statement on structure integrity;
- 3) Manufacturer's certificate on access to vehicle OBD(Stage I)and vehicle repair and maintenance information;
- 4) Manufacturer's statement on Anti-tampering;
- 5) Statement on none "defect device";
- 6) Manufacturer's Statement Concerning Authority of Signature on certificate of conformity;
- 7) Template of certificate of conformity;



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

SUBJECT: VEHICLE TYPE “M1PS”

Variant(s) and Version(s) matrix:

Variant (s)	Version (s)
00: 4.0 kW, 72 V40AH, 80 km/h	00: shape 1
01: 5.0 kW, 72 V80AH, 100 km/h	01: shape 2

Document

Extension Index	Review	Reason of revision/extension
00	00	Not applicable
01	00	1. Inclusion of new variant/version 01/01. 2. Inclusion of a new optional front tyre for variant/version 00/00. 3. Correction of points 3.3.6.2. in the technical documentation due to the mistakes. 4. Correction of drawing No. M1PS-03, M1PS-08 due to the mistakes.



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

INFORMATION DOCUMENT FOR THE PURPOSE OF EC TYPE-APPROVAL OF VEHICLES

According to Regulation (EU) number 168/2013*2020/1694
and Commission implementing Regulation (EU) number 901/2014*2020/239

Item No	(Sub) categories	Detailed information
0.		GENERAL INFORMATION
A.		General information concerning vehicles
0.1.	L1e-L7e	Make (trade name of manufacturer) : MANGOSTEEN
0.2.	L1e-L7e	Type ⁽¹⁷⁾ : M1PS
0.2.1.	L1e-L7e	Variant(s) ⁽¹⁷⁾ : 00, 01
0.2.2.	L1e-L7e	Version(s) ⁽¹⁷⁾ : 00, 01
0.2.3.	L1e-L7e	Commercial name(s) (if available) : M1PS
0.3.	L1e-L7e	Category, subcategory and sub-subcategory of vehicle ⁽²⁾ : L3e-A1
0.4.	L1e-L7e	Company name and address of manufacturer : MANGOSTEEN TECHNOLOGY CO., LIMITED FLAT 01C3, 10/F CARNIVAL COMMERCIAL BUILDING 18 JAVA ROAD, North Point, HONG KONG, CHINA
0.4.1.	L1e-L7e	Name(s) and address(es) of assembly plants : 1.Qingyuan Ouye Technology Co.,Ltd. Workshop A, 3/f, building A, no.6 workshop, changchong S253 line, xinzhuang, longtang town, qingcheng district, qingyuan city, guangdong province, P. R. China. Post Code: 511500 2.Guangdong Mangosteen Technology Co., Ltd. The three-floor B factory building, Building A, Block A, Xinzhuang Changchong S253 Line, Longtang Town, Qingyuan City, Qingyuan City. Post Code: 511500
0.4.2.	L1e-L7e	Name and address of manufacturer's authorized representative, if any : GreenKar Automotive S.r.l. Via di Quarto Peperino, 22 CAP 00188 - Roma, Italy
0.5.	L1e-L7e	Manufacturer's statutory plate(s)
0.5.1.	L1e-L7e	Location of the manufacturer's statutory plate ⁽¹⁵⁾ ⁽¹⁸⁾ : R, x1040, y115, z170 Refer to drawing No. M1PS-01
0.5.2.	L1e-L7e	Method of attachment : By riveting



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

Item No	(Sub) categories	Detailed information					
0.5.3.	L1e-L7e	Photographs and/or drawings of the statutory plate (completed example with dimensions)	: Refer to drawing No. M1PS-01				
0.6.	L1e-L7e	Location of the vehicle identification number ⁽²⁾	R, x300, y25, z760				
0.6.1.	L1e-L7e	Photographs and/or drawings of the locations of the vehicle identification number (completed example with dimensions)	: Refer to drawing No. M1PS-02				
0.6.1.1.	L1e-L7e	The serial number of the type begins with :	<table border="1"> <tr> <td>00/00</td> <td>☆R3M1S0000?1?????☆</td> </tr> <tr> <td>01/01</td> <td>☆R3M1S0101?1?????☆</td> </tr> </table> Refer to drawing No. M1PS-02	00/00	☆R3M1S0000?1?????☆	01/01	☆R3M1S0101?1?????☆
00/00	☆R3M1S0000?1?????☆						
01/01	☆R3M1S0101?1?????☆						
B.		General information concerning systems, components or separate technical units	: Not applicable				
C.		General information regarding conformity of production and access to repair and maintenance information					
0.12.		Conformity of production					
0.12.1.	L1e-L7e	Description of overall quality-assurance	: ISO9001: 2015 quality management system and EEC requirements				
0.13.		Access to repair and maintenance information					
0.13.1.	L1e-L7e	Address of principal website for access to vehicle repair and maintenance information	: http://www.gdmangosteentech.com/ Information available within six months from the date of type approval. See regulation (EU) No 168/2013, Article 57, paragraph 8				
0.13.2.	L1e-L7e	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)	: Not applicable				
1.		GENERAL CONSTRUCTION CHARACTERISTICS					
1.1.	L1e-L7e	Photographs and/or drawings of a representative vehicle	: Refer to drawing No. M1PS-03, M1PS-03.01				
1.2.	L1e-L7e	Scale drawing of the whole vehicle	: Refer to drawing No. M1PS-03, M1PS-03.01				
1.3.	L1e-L7e	Number of axles and wheels	: 2 axles / 2 wheels				
1.3.1.	L1e-L7e	Axles with twinned wheels ⁽²³⁾	: Not applicable				
1.3.2.	L1e-L7e	Powered axles ⁽²³⁾	: R(rear powered axle)				



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1.4.	L1e-L7e	Chassis (if any) (overall drawing)	: Refer to drawing No. M1PS-04, M1PS-04.01				
1.5.	L2e, L5e-B, L6e-B, L7e-A2, L7e-B2, L7e-C	Material used for the bodywork	: Not applicable				
1.6.	L1e-L7e	Position and arrangement of the propulsion(s)	: Refer to drawing No. M1PS-05				
1.7.	L4e, L5e-B, L6e-B, L7e-A2, L7e-B2, L7e-C	Hand of drive	: Not applicable				
1.7.1.	L1e-L7e	Vehicle is equipped to be driven in right/left-hand traffic and in countries that use metric/metric and imperial units ⁽⁴⁾	: Right-hand 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	: <table border="1"> <tr> <td>00/00</td> <td>80 km/h</td> </tr> <tr> <td>01/01</td> <td>100 km/h</td> </tr> </table>	00/00	80 km/h	01/01	100 km/h
00/00	80 km/h						
01/01	100 km/h						
1.8.2.	L1e, L2e, L6e, L7e-B1, L7e-C	Maximum design vehicle speed ⁽²²⁾	: Not applicable and gear in which it is reached: Not applicable				
1.8.3.	L1e-L7e	Maximum net power combustion engine	: Not applicable				
1.8.4.	L1e-L7e	Maximum net torque combustion engine	: Not applicable				
1.8.5.	L1e-L7e	Maximum continuous-rated power electric motor (15 /30 ⁽⁴⁾ minutes power ⁽²⁷⁾)	: <table border="1"> <tr> <td>00/00</td> <td>4.0 kW at 870 min⁻¹</td> </tr> <tr> <td>01/01</td> <td>5.0 kW at 800 min⁻¹</td> </tr> </table>	00/00	4.0 kW at 870 min ⁻¹	01/01	5.0 kW at 800 min⁻¹
00/00	4.0 kW at 870 min ⁻¹						
01/01	5.0 kW at 800 min⁻¹						
1.8.6.	L1e-L7e	Maximum continuous-rated torque electric motor	: <table border="1"> <tr> <td>00/00</td> <td>44.0 N.m at 870 min⁻¹</td> </tr> <tr> <td>01/01</td> <td>60.0 N.m at 800 min⁻¹</td> </tr> </table>	00/00	44.0 N.m at 870 min ⁻¹	01/01	60.0 N.m at 800 min⁻¹
00/00	44.0 N.m at 870 min ⁻¹						
01/01	60.0 N.m at 800 min⁻¹						
1.8.7.	L1e-L7e	Maximum continuous total power for propulsion(s)	: Not applicable				
1.8.8.	L1e-L7e	Maximum continuous total torque for propulsion(s)	: Not applicable				



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1.8.9.	L1e-L7e	Maximum peak power for propulsion(s)	<table border="1"> <tr> <td>00/00</td> <td>5.1 kW at 850 min⁻¹</td> </tr> <tr> <td>01/01</td> <td>5.2 k W at 770 min⁻¹</td> </tr> </table>	00/00	5.1 kW at 850 min ⁻¹	01/01	5.2 k W at 770 min⁻¹		
00/00	5.1 kW at 850 min ⁻¹								
01/01	5.2 k W at 770 min⁻¹								
2.		MASSES AND DIMENSIONS (In kg and mm.) refer to drawings where applicable							
2.1.		Range of vehicle mass (overall)							
2.1.1.	L1e-L7e	Mass in running order	<table border="1"> <tr> <td>00/00</td> <td>80 kg</td> </tr> <tr> <td>01/01</td> <td>88 kg</td> </tr> </table>	00/00	80 kg	01/01	88 kg		
00/00	80 kg								
01/01	88 kg								
2.1.1.1.	L1e-L7e	Distribution of mass in running order between the axles	<table border="1"> <tr> <td>00/00</td> <td>Front: 33 kg</td> <td>Rear: 47 kg</td> </tr> <tr> <td>01/01</td> <td>Front: 36 kg</td> <td>Rear: 52 kg</td> </tr> </table>	00/00	Front: 33 kg	Rear: 47 kg	01/01	Front: 36 kg	Rear: 52 kg
00/00	Front: 33 kg	Rear: 47 kg							
01/01	Front: 36 kg	Rear: 52 kg							
2.1.2.	L1e-L7e	Actual mass	<table border="1"> <tr> <td>00/00</td> <td>174 kg</td> </tr> <tr> <td>01/01</td> <td>195 kg</td> </tr> </table>	00/00	174 kg	01/01	195 kg		
00/00	174 kg								
01/01	195 kg								
2.1.2.1.	L1e-L7e	Distribution of actual mass between the axles	<table border="1"> <tr> <td>00/00</td> <td>Front: 66 kg</td> <td>Rear: 108 kg</td> </tr> <tr> <td>01/01</td> <td>Front: 80 kg</td> <td>Rear: 115 kg</td> </tr> </table>	00/00	Front: 66 kg	Rear: 108 kg	01/01	Front: 80 kg	Rear: 115 kg
00/00	Front: 66 kg	Rear: 108 kg							
01/01	Front: 80 kg	Rear: 115 kg							
2.1.3.	L1e-L7e	Technically permissible maximum laden mass	<table border="1"> <tr> <td>00/00</td> <td>224 kg</td> </tr> <tr> <td>01/01</td> <td>245 kg</td> </tr> </table>	00/00	224 kg	01/01	245 kg		
00/00	224 kg								
01/01	245 kg								
2.1.3.1.	L1e-L7e	Technically permissible maximum mass on front axle	<table border="1"> <tr> <td>00/00</td> <td>77 kg</td> </tr> <tr> <td>01/01</td> <td>108 kg</td> </tr> </table>	00/00	77 kg	01/01	108 kg		
00/00	77 kg								
01/01	108 kg								
2.1.3.2.	L1e-L7e	Technically permissible maximum mass on rear axle	<table border="1"> <tr> <td>00/00</td> <td>147 kg</td> </tr> <tr> <td>01/01</td> <td>137 kg</td> </tr> </table>	00/00	147 kg	01/01	137 kg		
00/00	147 kg								
01/01	137 kg								
2.1.3.3.	L4e	Technically permissible maximum mass on sidecar axle	: Not applicable						
2.1.4.	L1e-L7e	Maximum hill-starting ability at the maximum technically permissible mass declared by the manufacturer	: 20° slope						
2.1.5.	L1e-L7e	Maximum pay mass declared by manufacturer	: 50 kg						
2.1.6.	L1e-L7e	Safe load carrying capacity of load platform declared by manufacturer	: Not applicable						
2.1.7.	L1e-L7e	Technically permissible maximum towable mass in case of ⁽⁴⁾	: Not applicable						
2.1.7.1.	L1e-L7e	Technically permissible maximum laden mass of the combination	: Not applicable						
2.1.7.2.	L1e-L7e	Technically permissible maximum mass at the coupling point	: Not applicable						
2.1.8.	L1e-L7e	Mass of the optional equipment	: Not applicable						
2.1.9.	L1e-L7e	Mass of the superstructure	: Not applicable						



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2.1.10.	L1e-L7e	Mass of the propulsion battery	: <table border="1"> <tr> <td>00/00</td> <td>19 kg</td> </tr> <tr> <td>01/01</td> <td>2 x15.8 kg = 31.6 kg</td> </tr> </table>	00/00	19 kg	01/01	2 x15.8 kg = 31.6 kg
00/00	19 kg						
01/01	2 x15.8 kg = 31.6 kg						
2.1.11.	L2e, L4e, L5e, L6e, L7e	Mass of the doors	: Not applicable				
2.1.12.	L2e-U, L5e-B, L6e-BU, L7e-CU	Mass of the machines or equipment installed on the load platform area	: Not applicable				
2.1.13.	L1e-L7e	Mass of the gaseous fuel system as well as storage tanks for gaseous fuel	: Not applicable				
2.1.14.	L1e-L7e	Mass of the storage tanks to store compressed air	: Not applicable				
2.2.		Range of vehicle dimensions (overall)					
2.2.1.	L1e-L7e	Length	: <table border="1"> <tr> <td>00/00</td> <td>2120 mm</td> </tr> <tr> <td>01/01</td> <td>2070 mm</td> </tr> </table>	00/00	2120 mm	01/01	2070 mm
00/00	2120 mm						
01/01	2070 mm						
2.2.2.	L1e-L7e	Width	: <table border="1"> <tr> <td>00/00</td> <td>850 mm</td> </tr> <tr> <td>01/01</td> <td>870 mm</td> </tr> </table>	00/00	850 mm	01/01	870 mm
00/00	850 mm						
01/01	870 mm						
2.2.3.	L1e-L7e	Height	: <table border="1"> <tr> <td>00/00</td> <td>1100 mm</td> </tr> <tr> <td>01/01</td> <td>1090 mm</td> </tr> </table>	00/00	1100 mm	01/01	1090 mm
00/00	1100 mm						
01/01	1090 mm						
2.2.4.	L1e-L7e	Wheelbase	: <table border="1"> <tr> <td>00/00</td> <td>1520 mm</td> </tr> <tr> <td>01/01</td> <td>1540 mm</td> </tr> </table>	00/00	1520 mm	01/01	1540 mm
00/00	1520 mm						
01/01	1540 mm						
2.2.4.1.	L4e	Wheelbase sidecar ⁽²⁸⁾	: Not applicable				
2.2.5.		Track width					
2.2.5.1.	L1e-L7e if equipped with twinned wheels L2e, L4e, L5e, L6e, L7e	Track width front	: Not applicable				
2.2.5.2.	L1e-L7e if equipped with twinned wheels	Track width rear	: Not applicable				
2.2.5.3.	L2e, L4e, L5e, L6e, L7e	Track width sidecar	: Not applicable				
2.2.6.	L7e-B	Front overhang	: Not applicable				



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2.2.7.	L7e-B	Rear overhang : Not applicable
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 : Not applicable
2.2.8.2.	L2e-U, L5e-B, L6e-BU, L7e-B2, L7e-CU	Width of load platform : Not applicable
2.2.8.3.	L2e-U, L5e-B, L6e-BU, L7e-B2, L7e-CU	Height of load platform : Not applicable
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 : Not applicable
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 : Not applicable
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 : Not applicable
2.2.10.		Miscellaneous dimensions
2.2.10.1.	L7e-B2	Approach angle ⁽¹¹⁾ : Not applicable
2.2.10.2.	L7e-B2	Departure angle ⁽¹¹⁾ : Not applicable
2.2.10.3.	L7e-B2	Ramp angle ⁽¹¹⁾ : Not applicable
2.2.10.4.	L7e-B2	Ground clearance under the front axle ⁽¹¹⁾ : Not applicable
2.2.10.5.	L7e-B2	Ground clearance under the rear axle ⁽¹¹⁾ : Not applicable



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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 ⁽¹¹⁾ : Not applicable
2.2.10.7.	L7e-B	Wheelbase to ground clearance ratio : Not applicable
2.2.10.8.	L7e-B2	Static stability coefficient -Kst : Not applicable
2.2.10.9.	L3e-AxE, L3e-AxT	Seat height : Not applicable
2.2.10.10.	L3e-AxE, L3e-AxT	Ground clearance : Not applicable
3.		GENERAL POWERTRAIN CHARACTERISTICS
3.1.		Manufacturer of the propulsion unit
3.1.1.		<i>Combustion engine</i> : Not applicable
3.1.2.		<i>Electric motor</i>
3.1.2.1.	L1e-L7e	Manufacturer : Taizhou Quanshun electric Drive Technology Co., Ltd.
3.1.2.2.	L1e-L7e	Electric motor code (as marked on the engine or other means of identification) : MGSD72VA
3.1.3.		<i>Hybrid application</i> : Not applicable
3.2.		Combustion engine : Not applicable
3.3.		Pure electric and hybrid electric propulsion and control
3.3.1.	L1e-L7e	Electric vehicle configuration: pure electric/ hybrid electric/manpower electric electric ⁽⁴⁾ : pure electric/ hybrid electric/manpower electric electric ⁽⁴⁾
3.3.2.	L1e-L7e	Brief description and schematic drawing of pure and hybrid electric propulsions and its control system(s) : Refer to drawing No. M1PS-05, M1PS-07
3.3.3.		<i>Electric propulsion motor</i>
3.3.3.1.	L1e-L7e	Number of electric motors for propulsion : 1
3.3.3.2.	L1e-L7e	Type (winding, excitation) : Winding
3.3.3.3.	L1e-L7e	Operating voltage : 72 V



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3.3.3.4.	L1e-L7e	15/30 ⁽⁴⁾ minutes power ⁽²⁷⁾	: <table border="1"> <tr> <td>00/00</td> <td>4.0 kW</td> </tr> <tr> <td>01/01</td> <td>5.0 kW</td> </tr> </table>	00/00	4.0 kW	01/01	5.0 kW
00/00	4.0 kW						
01/01	5.0 kW						
3.3.4.		<i>Propulsion batteries</i>					
3.3.4.1.	L1e-L7e	Primary propulsion battery					
3.3.4.1.1.	L1e-L7e	Number of cells	: <table border="1"> <tr> <td>00/00</td> <td>160</td> </tr> <tr> <td>01/01</td> <td>2 x 180</td> </tr> </table>	00/00	160	01/01	2 x 180
00/00	160						
01/01	2 x 180						
3.3.4.1.2.	L1e-L7e	Mass	: <table border="1"> <tr> <td>00/00</td> <td>19 kg</td> </tr> <tr> <td>01/01</td> <td>2 x 15.8 kg = 31.6 kg</td> </tr> </table>	00/00	19 kg	01/01	2 x 15.8 kg = 31.6 kg
00/00	19 kg						
01/01	2 x 15.8 kg = 31.6 kg						
3.3.4.1.3.	L1e-L7e	Capacity	: <table border="1"> <tr> <td>00/00</td> <td>40 Ah</td> </tr> <tr> <td>01/01</td> <td>2 x 40 Ah = 80 Ah</td> </tr> </table>	00/00	40 Ah	01/01	2 x 40 Ah = 80 Ah
00/00	40 Ah						
01/01	2 x 40 Ah = 80 Ah						
3.3.4.1.4.	L1e-L7e	Voltage	: 72 V				
3.3.4.1.5.	L1e-L7e	Position in the vehicle	: Refer to drawing No. M1PS-08, M1PS-08.01				
3.3.4.2.	L1e-L7e	Secondary propulsion battery					
3.3.4.2.1.	L1e-L7e	Number of cells	: Not applicable				
3.3.4.2.2.	L1e-L7e	Mass	: Not applicable				
3.3.4.2.3.	L1e-L7e	Capacity	: Not applicable				
3.3.4.2.4.	L1e-L7e	Voltage	: Not applicable				
3.3.4.2.5.	L1e-L7e	Position in the vehicle	: Not applicable				
3.3.5.		<i>Hybrid electric vehicle</i>					
3.3.6.		<i>Energy storage device</i>					
3.3.6.1.	L1e-L7e	Description	: (battery, capacitor, flywheel/generator) ⁽⁴⁾				
3.3.6.2.	L1e-L7e	Identification number	: <table border="1"> <tr> <td>00/00</td> <td>21700-20S10P</td> </tr> <tr> <td>01/01</td> <td>HP72V40Ah</td> </tr> </table>	00/00	21700-20S10P	01/01	HP72V40Ah
00/00	21700-20S10P						
01/01	HP72V40Ah						
* 3.3.6.3.	L1e-L7e	Kind of electrochemical couple	: Lithium battery				
3.3.6.4.	L1e-L7e	Energy (for battery: voltage and capacity Ah in 2h, for capacitor: J,..., for flywheel/generator: J,...)	: <table border="1"> <tr> <td>00/00</td> <td>72V, 40Ah</td> </tr> <tr> <td>01/01</td> <td>72V, 40Ah x 2</td> </tr> </table>	00/00	72V, 40Ah	01/01	72V, 40Ah x 2
00/00	72V, 40Ah						
01/01	72V, 40Ah x 2						
3.3.6.5.	L1e-L7e	Charger	: on-board /external/ without ⁽⁴⁾				
3.3.7.		<i>Electric motor (describe each type of electric motor separately)</i>					
3.3.7.1.	L1e-L7e	Primary use	: Propulsion motor/ generator ⁽⁴⁾				
3.3.7.2.	L1e-L7e	When used as propulsion motor: single-/multi-motors (number) ⁽⁴⁾	: Single-motor				



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3.3.7.3.	L1e-L7e	Working principle : Permanent magnet brushless DC motor				
3.3.7.4.	L1e-L7e	Direct current/alternating current /number of phases : Direct current / three phases				
3.3.7.5.	L1e-L7e	Separate excitation/series/compound ⁽⁴⁾ : Series				
3.3.7.6.	L1e-L7e	Synchronous/asynchronous ⁽⁴⁾ : Synchronous				
3.3.8.		<i>Electric motor control unit</i>				
3.3.8.1.	L1e-L7e	Identification number : <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>00/00</td> <td>MGSD_72V_1 Refer to drawing No. M1PS-06</td> </tr> <tr> <td>01/01</td> <td>MG72V270A_27_2_H67 Refer to drawing No. M1PS-06.01</td> </tr> </table>	00/00	MGSD_72V_1 Refer to drawing No. M1PS-06	01/01	MG72V270A_27_2_H67 Refer to drawing No. M1PS-06.01
00/00	MGSD_72V_1 Refer to drawing No. M1PS-06					
01/01	MG72V270A_27_2_H67 Refer to drawing No. M1PS-06.01					
3.3.9.		<i>Power controller</i>				
3.3.9.1.	L1e-L7e	Identification number : <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>00/00</td> <td>MGSD_72V_1 Refer to drawing No. M1PS-06</td> </tr> <tr> <td>01/01</td> <td>MG72V270A_27_2_H67 Refer to drawing No. M1PS-06.01</td> </tr> </table>	00/00	MGSD_72V_1 Refer to drawing No. M1PS-06	01/01	MG72V270A_27_2_H67 Refer to drawing No. M1PS-06.01
00/00	MGSD_72V_1 Refer to drawing No. M1PS-06					
01/01	MG72V270A_27_2_H67 Refer to drawing No. M1PS-06.01					
3.4.		Other engines, electric motors or combinations (specific information concerning the parts of these motors)				
3.4.1.		<i>Cooling system (temperatures permitted by the manufacturer)</i>				
3.4.1.1.	L1e-L7e	Liquid cooling : Not applicable				
3.4.1.1.1.	L1e-L7e	Maximum temperature at outlet : Not applicable				
3.4.1.2.	L1e-L7e	Air cooling : Not applicable				
3.4.1.2.1.	L1e-L7e	Reference point : Not applicable				
3.4.1.2.2.	L1e-L7e	Maximum temperature at reference point : Not applicable				
3.4.2.		<i>Lubrication system</i>				
3.4.2.1.	L1e-L7e	Description of lubrication system : Not applicable				
3.4.2.2.	L1e-L7e	Location of oil reservoir (if any) : Not applicable				
3.4.2.3.	L1e-L7e	Feed system (pump/injection into induction system/mixed with the fuel, etc.) ⁽⁴⁾ : Not applicable				
3.4.2.4.	L1e-L7e	Lubricant mixed with the fuel : Not applicable				
3.4.2.4.1.	L1e-L7e	Percentage : Not applicable				
3.4.2.5.	L1e-L7e	Oil cooler : yes /no ⁽⁴⁾				



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* 3.4.2.5.1.	L1e-L7e	Drawing(s)	: Not applicable			
3.5.		Drive-train and control ⁽¹³⁾				
3.5.1.	L1e-L7e	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)	: Not applicable			
3.5.2.		<i>Clutch</i>				
3.5.2.1.	L1e-L7e	Brief description and schematic drawing of the clutch and its control system	: Not applicable			
3.5.3.		<i>Transmission</i>				
3.5.3.1.	L1e-L7e	Brief description and schematic drawing of gear shift system(s) and its control	: Not applicable			
3.5.3.2.	L1e-L7e	Drawing of the transmission	: Not applicable			
3.5.3.3.	L1e-L7e	Type (mechanical, hydraulic, electric, manual/manual automatic/automatic/CVT /other (indicate)) ⁽⁴⁾	: Other(Wheel-hub motor)			
3.5.3.4.	L1e-L7e	A brief description of the electrical/electronic components (if any)	: Not applicable			
3.5.3.5.	L1e-L7e	Location relative to the engine	: Not applicable			
3.5.3.6.	L1e-L7e	Method of control	: Not applicable			
3.5.4.	L1e-L7e	<i>Gear ratios</i>				
		Overview gear ratios				
		Gear	Internal transmission ratios (ratios of engine to transmission output shaft revolutions)	Final drive ratio(s) (ratio of transmission output shaft to driven wheel revolutions)	Total gear ratios	Ratio (engine speed/ vehicle speed) for Manual transmission only
		1	Not applicable	Not applicable	Not applicable	Not applicable
		Reverse	Not applicable	Not applicable	Not applicable	Not applicable
3.5.4.1.	L3e-AxE, L3e-AxT	Final drive ratio	: Not applicable			

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3.5.4.2.	L3e-AxE, L3e-AxT	Overall gear ratio in highest gear : Not applicable
3.6.		Safe-cornering device
3.6.1.	L1e-L7e, equipped with twinned wheels, L2e, L5e, L6e, L7e	Safe-cornering device (Annex VIII to Regulation (EU) No 168/2013 : yes/no ⁽⁴⁾ ; differential/other ⁽⁴⁾
3.6.2.	L1e-L7e, equipped with twinned wheels, L2e, L5e, L6e, L7e	Differential lock : yes/no/optional ⁽⁴⁾
3.6.3.	L1e-L7e	Brief description and schematic drawing of the safe-cornering device, the differential lock and their control systems : Not applicable
3.7.		Suspension and control
3.7.1.	L1e-L7e	Brief description and schematic drawing of suspension and its control system : Refer to drawing No. M1PS-10, M1PS-11
3.7.2.	L1e-L7e	Drawing of the suspension arrangements : Refer to drawing No. M1PS-10, M1PS-11
3.7.3.	L1e-L7e	Level adjustment : yes/no/optional ⁽⁴⁾
3.7.4.	L1e-L7e	Brief description of the electrical/electronic components : Not applicable
3.7.5.	L1e-L7e	Stabilisers : yes/no/optional ⁽⁴⁾
3.7.6.	L1e-L7e	Shock absorbers : yes/no/optional ⁽⁴⁾
3.8.		Passenger-compartment heating system and air-conditioning : Not applicable
3.9.		Cycles designed to pedal : Not applicable
4.		GENERAL INFORMATION ON ENVIRONMENTAL AND PROPULSION PERFORMANCE
4.0.		General information on environmental and propulsion performance
4.0.1.	L1e-L7e	Environmental step ⁽¹⁶⁾ : Euro 5 (3/4/5/5+) ⁽⁴⁾
4.0.2.	L1e-L7e	Fuel consumption (provide details for each reference fuel tested) : Not applicable



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4.0.3.	L1e-L7e	CO ₂ emissions ⁽²⁵⁾	: Not applicable				
4.0.4.	L1e-L7e	Energy consumption ⁽²⁵⁾	: <table border="1"> <tr> <td>00/00</td> <td>40 Wh/km</td> </tr> <tr> <td>01/01</td> <td>47 Wh/km</td> </tr> </table>	00/00	40 Wh/km	01/01	47 Wh/km
00/00	40 Wh/km						
01/01	47 Wh/km						
4.0.5.	L1e-L7e	Electric range ⁽²⁵⁾	: <table border="1"> <tr> <td>00/00</td> <td>102 km</td> </tr> <tr> <td>01/01</td> <td>135 km</td> </tr> </table>	00/00	102 km	01/01	135 km
00/00	102 km						
01/01	135 km						
4.1.		Tailpipe emission-control system	: Not applicable				
4.2.		Crankcase emission control system					
4.2.1.	L1e-L7e	Configuration of crank-case gas recycling system (breather system, positive crank-case ventilation system, other) ⁽⁴⁾ (description and drawings)	: Not applicable				
4.3.		Evaporative emission control system	: Not applicable				
4.4.		Additional information on environmental and propulsion unit performance	: Not applicable				
5.		VEHICLE PROPULSION FAMILY					
5.1.	L1e-L7e	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	: Not applicable				
6.		INFORMATION ON FUNCTIONAL SAFETY					
6.1.		Audible warning devices					
6.1.1.	L1e-L7e	Summary description of device(s) used and their purpose	: Single tone electro-magnetic with resonator disc Make: LVEE Type: DL70-II Approval mark: II E32-000002				
6.1.2.	L1e-L7e	Drawing(s) showing the location of the audible warning device(s) in relation to the structure of the vehicle	: Refer to drawing No. M1PS-12				
6.1.3.	L1e-L7e	Details of the method of attachment, including the part of the vehicle structure to which the audible warning device(s) is (are) attached	: Refer to drawing No. M1PS-12				
6.1.4.	L1e-L7e	Electrical/pneumatic circuit diagram	: Refer to drawing No. M1PS-12				
6.1.4.1.	L1e-L7e	Voltage	: AC /DC ⁽⁴⁾				



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6.1.4.2.	L1e-L7e	Rated voltage or pressure : 12V
6.1.5.	L1e-L7e	Drawing of the mounting device : Refer to drawing No. M1PS-12
6.2.		Braking, including anti-lock and combined braking systems
6.2.1.	L1e-L7e	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 ⁽⁴⁾ : Refer to drawing No. M1PS-14, M1PS-15, M1PS-16, M1PS-17, M1PS-17, M1PS-18
6.2.2.	L1e-L7e	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 ⁽⁴⁾ : Refer to drawing No. M1PS-14, M1PS-17
6.2.2.1.	L1e-L7e	Front, rear and sidecar brakes, disc and/or drum ⁽⁴⁾ : Front: disc Rear: disc
6.2.2.2.	L1e-L7e	Parking braking system : Not applicable
6.2.2.3.	L1e-L7e	Any additional braking system : No
6.2.3.	L1e-L7e	Vehicle is equipped to tow a trailer with no brake/overrun brake/electric/pneumatic/hydraulic service brakes : yes/no ⁽⁴⁾
6.2.4.	L1e-L7e	Anti-lock/Combined braking system
6.2.4.1.	L1e-L7e	Anti-lock braking system : yes/no/optional ⁽⁴⁾
6.2.4.2.	L1e-L7e	Combined braking system : yes/no/optional ⁽⁴⁾
6.2.4.3.	L1e-L7e	Anti-lock and combined braking system : yes/no/optional ⁽⁴⁾
6.2.4.4.	L1e-L7e	Schematic drawing(s) : Not applicable
6.2.5.	L1e-L7e	Hydraulic reservoir(s) (volume and location) : Refer to drawing No. M1PS-15, M1PS-17
6.2.6.	L1e-L7e	Particular characteristics of the braking system(s)
6.2.6.1.	L1e-L7e	Brake shoes and/or pads ⁽⁴⁾ : Refer to drawing No. M1PS-18
6.2.6.2.	L1e-L7e	Linings and/or pads (indicate make, type, grade of material or identification mark) : Refer to drawing No. M1PS-18



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Item No	(Sub) categories	Detailed information					
6.2.6.3.	L1e-L7e	Brake levers and/or pedals ⁽⁴⁾	: Refer to drawing No. M1PS-17				
6.2.6.4.	L1e-L7e	Other devices (where applicable) drawing and description	: Not applicable				
6.3.		Electrical safety					
6.3.1.	L1e-L7e	Brief description of the power circuit components installation and drawings/ photographs showing the location of the power circuit components installation	: Refer to drawing No. M1PS-14				
6.3.2.	L1e-L7e	Schematic diagram of all electrical functions included in power circuit	: Refer to drawing No. M1PS-13, M1PS-13.01				
6.3.3.	L1e-L7e	Working voltage(s) (V)	: Power working voltage : 72V Other electric components working voltage:12V DC				
6.3.4.	L1e-L7e	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. Refer to drawing No. M1PS-23				
6.3.5.	L1e-L7e	Fuse and/or circuit breaker	: yes/no/optional ⁽⁴⁾ , <table border="1" style="margin-left: 20px;"> <tr> <td>00/00</td> <td>Fuse</td> </tr> <tr> <td>00/00, 01/01</td> <td>Circuit breaker</td> </tr> </table>	00/00	Fuse	00/00, 01/01	Circuit breaker
00/00	Fuse						
00/00, 01/01	Circuit breaker						
6.3.5.1.	L1e-L7e	Diagram showing the functional range	: Refer to drawing No. M1PS-09, M1PS-09.01				
6.3.6.	L1e-L7e	Configuration of power wiring harness	: Refer to drawing No. M1PS-13, M1PS-13.01				
6.4.		Front and rear protective structures					
6.4.1.		<i>Front protective structure</i>					
6.4.1.1.	L1e-L7e	Detailed technical description (including photographs or drawings)	: Not applicable				
6.4.1.2.	L1e-L7e	Materials used	: Not applicable				
6.4.2.		<i>Rear protective structure</i>					
6.4.2.1.	L1e-L7e	Detailed technical description (including photographs or drawings)	: Not applicable				
6.4.2.2.	L1e-L7e	Materials used	: Not applicable				
6.5.		Glazing, windscreen wipers and washers, and defrosting and demisting systems	: Not applicable				



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Item No	(Sub) categories	Detailed information
6.6.		Windscreen wiper(s) : Not applicable
6.7.		Windscreen washer : Not applicable
6.8.		Defrosting and demisting : Not applicable
6.9.		Driver-operated controls including identification of controls, tell- tales and indicators
6.9.1.	L1e-L7e	Arrangement and identification of controls, tell-tales and indicators : Refer to drawing No. M1PS-19, M1PS-19.01
6.9.2.	L1e-L7e	Photographs and/or drawings of the arrangement of symbols and controls, tell-tales and indicators : Refer to drawing No. M1PS-19, M1PS-19.01
6.9.3.	L1e-L7e	Controls, tell-tales and indicators for which, when fitted, identification is mandatory, including the identification symbols to be used for that purpose : Refer to drawing No. M1PS-19, M1PS-19.01



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Item No	(Sub) categories	Detailed information					
6.9.4.	L1e-L7e	Summary table: the vehicle is equipped with the following driver-operated controls, including indicators and tell-tales ⁽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	Master light	x	x	c	-	-	-
2	Dipped-beam head lamps	x	x	c	-	-	-
3	Main-beam head lamps	x	x	c	x	x	d
4	Position (side) lamps (With DRL)	x	x	c	x	x	d
	Position (side) lamps (Without DRL)	-	-	-	-	-	-
5	Front fog lamps	-	-	-	-	-	-
6	Rear fog lamps	-	-	-	-	-	-
7	Headlamp levelling device	-	-	-	-	-	-
8	Parking lamps	-	-	-	-	-	-
9	Direction indicators	x	x	c	x	x	d
10	Hazard warning	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	-	-	-	-	-	-

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Item No	(Sub) categories	Detailed information							
		Symbol No	Device	Control/indicator available (+)	Identified by symbol (+)	Where (++)	Tell-tale available (+)	Identified by symbol (+)	Where (++)
		19	Choke	-	-	-	-	-	-
		20	Brake failure	-	-	-	-	-	-
		21	Fuel level	-	-	-	-	-	-
		22	Battery charging condition	-	-	-	-	-	-
		23	Engine coolant temperature	-	-	-	-	-	-
		24	Malfunction indicator light (MI)	-	-	-	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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Item No	(Sub) categories	Detailed information							
6.9.5.	L1e-L7e	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	Drive mode	x	x	d	x	x	d
		13	Ready	-	-	-	x	x	d
14	Parking	x	x	d	x	x	d		
(+) x = Yes. - = No or not separately available. o = Optional. (++) d = Directly on control, indicator or tell-tale. c = In close vicinity.									
6.10.		Speedometer and odometer							
6.10.1.		<i>Speedometer</i>							
6.10.1.1.	L1e-L7e	Photographs and/or drawings of the complete system	: Manufacturer: Guangzhou Elephant Technology Development Co., Ltd. Type: DX80A						

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Item No	(Sub) categories	Detailed information
6.10.1.2.	L1e-L7e	Vehicle speed range displayed : 0~188 km/h, 0~188 mph
6.10.1.3.	L1e-L7e	Tolerance of the measuring mechanism of the speedometer : $0 \leq (V_1 - V_2) \leq 0.1 * V_2 + 4$ km/h V ₁ : display speed, V ₂ : actual speed
6.10.1.4.	L1e-L7e	Technical constant of the speedometer : 1 pulse/min = 1.053×10^{-3} km/h
6.10.1.5.	L1e-L7e	Method of operation and description of the drive mechanism : Directly connect to the intelligent controller
6.10.1.6.	L1e-L7e	Overall transmission ratio of the drive mechanism : 90 pulses / 1 wheel rotation
6.10.2.		<i>Odometer</i>
6.10.2.1.	L1e-L7e	Tolerance of the measuring mechanism of the odometer : 0~+5 km
6.10.2.2.	L1e-L7e	Method of operation and description of the drive mechanism : See item 6.10.1.5.
6.11.		Installation of lighting, light-signalling devices, including automatic switching of lighting
6.11.1.	L1e-L7e	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) : List as below

Name		QTY/Color	Make	Type	Type-approval mark	Tell tale	Max intensity
Headlamp	Driving beam	1/white	SHIJIN	SG01-NZ	WCR-DS PL	Blue	22500cd
	Passing beam				E4 10 02 27489	/	/
Front position lamp					E4 50R-0027489	Via panel	/
Daytime running lamp					00 RL E4 27489	/	/
Front	Direction indicators	2/amber	SHIJIN	SJ-LED-Z10	11 12	Green	/
Rear		2/amber			E4 50R-002854	Green	/
Stop lamp		1/red	SHIJIN	SJ-W33	E4 50R-0129133	/	/
Rear position lamp						Via panel	/
Rear registration plate lamp						1/white	SJ-P08
Side reflectors		2/amber	K-LITE	KM206	IA E4 02.3713	/	/
Rear reflector		1/red	K-LITE	KM206	IA E4 02.3713	/	/
Optional							
Headlamp	Driving beam	1/white	SHIJIN	SJ-D01	CR-BS PL	Blue	22500cd
	Passing beam				E4 0011171	/	/
Front position lamp					E4 50R-0011171	Via panel	/



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Item No	(Sub) categories	Detailed information
6.11.2.	L1e-L7e	Diagram showing the location of the lighting and light-signalling devices : Refer to drawing No. M1PS-21, M1PS-21.01, M1PS-21.02, M1PS-21.03
6.11.3.	L1e-L7e	Hazard warning lamps : Using front and rear direction indicators.
6.11.4.	L1e-L7e	Brief description of the electrical and/or electronic components used in the lighting system and in the light-signalling system : Not applicable
6.11.5.	L1e-L7e	For every lamp and reflector, supply the following information (in writing and/or by diagram) : See component certificates
6.11.5.1.	L1e-L7e	Drawing showing the extent of the illuminating surface : See component certificates
6.11.5.2.	L1e-L7e	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) : See component certificates
6.11.5.3.	L1e-L7e	Axis of reference and centre of reference : See component certificates
6.11.5.4.	L1e-L7e	Method of operation of concealable lamps : Not applicable
6.11.6.	L1e-L7e	Description/drawing and type of headlamp levelling device (e.g. automatic, stepwise manually adjustable, continuously manually adjustable) ⁽⁴⁾ : Stepwise manually adjustable
6.11.6.1.	L1e-L7e	Control device : Set screw
6.11.6.2.	L1e-L7e	Reference marks : Not applicable
6.11.6.3.	L1e-L7e	Marks assigned for loading conditions : Not applicable
6.12.		Rearward visibility
6.12.1.		<i>Rear-view mirrors (stating for each mirror)</i>
6.12.1.1.	L1e-L7e	Drawing(s) for the identification of the mirror showing the position of the mirror relative to the vehicle structure : Make: XIONGXIN Type: XX-005 Approval mark: L E11 002066
6.12.1.2.	L1e-L7e	Details of the method of attachment including that part of the vehicle structure to which it is attached : Refer to drawing No. M1PS-22, M1PS-22.01
6.12.1.3.	L1e-L7e	A brief description of the electronic components of the adjustment system : Not applicable

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Item No	(Sub) categories	Detailed information
6.12.2.	L1e-L7e	<i>Devices for indirect vision other than mirrors</i>
6.12.2.1.	L1e-L7e	Description of the device : Not applicable
6.12.2.2.	L1e-L7e	In the case of a camera-monitor device, the detection distance (mm), contrast, luminance range, glare correction, display performance (black and white/colour ⁽⁴⁾), image repetition frequency, luminance reach of the monitor ⁽⁴⁾ : Not applicable
6.12.2.3.	L1e-L7e	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 : Not applicable
6.13.		Rollover protective structure (ROPS) : Not applicable
6.14.		Safety belts and/or other restraints : Not applicable
6.15.		Safety belt anchorages : Not applicable
6.16.		Seating positions (saddles and seats)
6.16.1.	L1e-L7e	Number of seating positions : 1
6.16.1.1.	L2e, L5e, L6e, L7e	Location and arrangement ⁽⁸⁾ : Not applicable
6.16.2.	L1e-L7e	Seating position configuration : seat /saddle ⁽⁴⁾
6.16.3.	L1e-L7e	Description and drawings of:
6.16.3.1.	L1e-L7e	The seats and their anchorages : Not applicable
6.16.3.2.	L1e-L7e	The adjustment system : Not applicable
6.16.3.3.	L1e-L7e	The displacement and locking systems : Not applicable
6.16.3.4.	L1e-L7e	The seat-belt anchorages incorporated in the seat structure : Not applicable
6.16.3.5.	L1e-L7e	The parts of the vehicle used as anchorages : Not applicable
6.16.4.	L2e, L4e, L5e-B, L6e-B, L7e	Coordinates or drawing of the R-point(s) of all seating positions : Not applicable
6.16.4.1.	L2e, L4e, L5e-B, L6e-B, L7e	Driver's seat : Not applicable
6.16.4.2.	L2e, L4e, L5e-B, L6e-B, L7e	All other seating positions : Not applicable



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6.16.5.	L1e-L7e	Design torso angle
6.16.5.1.	L1e-L7e	Driver's seat : Not applicable
6.16.5.2.	L1e-L7e	All other seating positions : Not applicable
6.16.6.	L1e-L7e	Range of seat adjustment : Not applicable
6.16.6.1.	L1e-L7e	Driver's seat : Not applicable
6.16.6.2.	L1e-L7e	All other seating positions : Not applicable
6.17.		Steer-ability, cornering properties and turn-ability
6.17.1.	L1e-L7e	Schematic diagram of steered axle(s) showing steering geometry : Refer to drawing No. M1PS-25
6.17.2.		<i>Transmission and control of steering</i>
6.17.2.1.	L1e-L7e	Configuration of steering transmission (specify for front and rear) : Refer to drawing No. M1PS-25
6.17.2.2.	L1e-L7e	Linkage to wheels (including other than mechanical means; specify for front and rear) : Refer to drawing No. M1PS-25
6.17.2.2.1.	L1e-L7e	A brief description of the electrical/ electronic components : Not applicable
6.17.2.3.	L1e-L7e	Diagram of the steering transmission : Not applicable
6.17.2.4.	L2e, L5e, L6e, L7e	Schematic diagram(s) of the steering control(s) : Not applicable
6.17.2.5.	L2e, L5e, L6e, L7e	Range and method of adjustment of the steering control(s) : Not applicable
6.17.2.6.	L2e, L5e, L6e, L7e	Method of assistance : Not applicable
6.17.3.		<i>Maximum steering angle of the wheels</i>
6.17.3.1.	L1e-L7e	To the right : 40° Number of turns of the steering wheel(or equivalent data): Not applicable
6.17.3.2.	L1e-L7e	To the left : 40° Number of turns of the steering wheel(or equivalent data): Not applicable

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Item No	(Sub) categories	Detailed information																																				
6.18.		Tyres/wheels combination																																				
6.18.1.		<i>Tyres</i>																																				
6.18.1.1.		Size designation																																				
		<table border="1"> <thead> <tr> <th>Axle</th> <th>Tyres</th> <th>Rolling Circ.</th> <th>Tire pressure</th> <th>Rim size</th> </tr> </thead> <tbody> <tr> <td colspan="5">00/00:</td> </tr> <tr> <td>Front</td> <td>130/70-12 56L or 56K</td> <td>1538 mm</td> <td>225 kPa</td> <td>12×MT2.75 or 3.50X12</td> </tr> <tr> <td>Rear</td> <td>215/40-12 52M</td> <td>1580 mm</td> <td>151 kPa</td> <td>12×7.5</td> </tr> <tr> <td colspan="5">01/01:</td> </tr> <tr> <td>Front</td> <td>120/80-14 M/C 58S or 58P</td> <td>1700 mm</td> <td>225 kPa</td> <td>MT3.0×14 or 2.75×14</td> </tr> <tr> <td>Rear</td> <td>215/40-13 M/C 56J</td> <td>1600 mm</td> <td>250 kPa</td> <td>13*6.5J or 7.50X13</td> </tr> </tbody> </table>		Axle	Tyres	Rolling Circ.	Tire pressure	Rim size	00/00:					Front	130/70-12 56L or 56K	1538 mm	225 kPa	12×MT2.75 or 3.50X12	Rear	215/40-12 52M	1580 mm	151 kPa	12×7.5	01/01:					Front	120/80-14 M/C 58S or 58P	1700 mm	225 kPa	MT3.0×14 or 2.75×14	Rear	215/40-13 M/C 56J	1600 mm	250 kPa	13*6.5J or 7.50X13
Axle	Tyres	Rolling Circ.	Tire pressure	Rim size																																		
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6.18.1.1.1.	L1e-L7e	Axle	: See above table 6.18.1.1.																																			
6.18.1.1.2.	L1e-L7e	Axle 2	: See above table 6.18.1.1.																																			
6.18.1.1.3.	L4e	Sidecar wheel	: Not applicable																																			
6.18.1.2.	L1e-L7e	Minimum load-capacity index with the maximum load on each tyre	<table border="1"> <tbody> <tr> <td>00/00</td> <td>Front: 19 (77.5 kg) Rear: 42 (150 kg)</td> </tr> <tr> <td>01/01</td> <td>Front: 31 (109 kg) Rear: 40 (140 kg)</td> </tr> </tbody> </table>	00/00	Front: 19 (77.5 kg) Rear: 42 (150 kg)	01/01	Front: 31 (109 kg) Rear: 40 (140 kg)																															
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01/01	Front: 31 (109 kg) Rear: 40 (140 kg)																																					
6.18.1.3.	L1e-L7e	Minimum-speed category symbol compatible with the theoretical maximum design vehicle speed	<table border="1"> <tbody> <tr> <td>00/00</td> <td>F</td> </tr> <tr> <td>01/01</td> <td>J</td> </tr> </tbody> </table>	00/00	F	01/01	J																															
00/00	F																																					
01/01	J																																					
6.18.1.4.	L1e-L7e	Tyre pressure(s) as recommended by the vehicle manufacturer	: See above table 6.18.1.1.																																			
6.18.2.		<i>Wheels</i>																																				
6.18.2.1.	L1e-L7e	Rim size(s)	: See above table 6.18.1.1.																																			
6.18.2.2.	L1e-L7e	Categories of use compatible with the vehicle	: Normal																																			
6.18.2.3.	L1e-L7e	Nominal rolling circumference	: See above table 6.18.1.1.																																			
6.19.		Vehicle maximum speed limitation plate and its location on the vehicle	: Not applicable																																			
6.20.		Vehicle occupant protection, including interior fittings and vehicle doors	: Not applicable																																			
6.21.		Maximum continuous total power and/or maximum vehicle speed limitation by design																																				
6.21.1.		Propulsion and/or drive-train output governors																																				



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Item No	(Sub) categories	Detailed information
6.21.1.1.	L1e-L7e	Number (minimum two, exemption L3e-A3 and L4e-A3) : Not applicable
6.21.1.2.	L1e-L7e	How is the redundancy of governors ensured? : Not applicable
6.21.1.3.	L1e-L7e	Nominal cut-off point no 1
6.21.1.3.1.	L1e-L7e	Engine/motor/drive-train rotation speed at which cut-off starts under load : Not applicable
6.21.1.3.2.	L1e-L7e	Maximum rotation speed at the minimum engine load : Not applicable
6.21.1.4.	L1e-L7e	Nominal cut-off point no 2
6.21.1.4.1.	L1e-L7e	Engine/motor/drive-train rotation speed at which cut-off starts under load ⁽⁴⁾ : Not applicable
6.21.1.4.2.	L1e-L7e	Maximum rotation speed at the minimum engine load : Not applicable
6.21.1.5.	L1e-L7e	The stated purpose of governor(s) : Not applicable
7.		INFORMATION ON VEHICLE CONSTRUCTION
7.1.		Coupling devices and attachments : Not applicable
7.2.		Devices to prevent unauthorised use
7.2.1.		<i>Protective device</i>
7.2.1.1.	L1e-L7e	Summary description of protective device(s) used : Type 2, Steering lock with handle bar operating on the steering and engine is operated by combination Refer to drawing No. M1PS-26
7.2.2.		<i>Vehicle immobiliser</i>
7.2.2.1.	L1e-L7e	Technical description of the vehicle immobiliser and of the measures taken against inadvertent activation : Not applicable
7.2.3.		<i>Alarm system</i>
7.2.3.1.	L1e-L7e	Description of the alarm system and of the vehicle parts involved in its installation : Not applicable
7.2.3.2.	L1e-L7e	List of the main components comprising the alarm system : Not applicable

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Item No	(Sub) categories	Detailed information
7.3.		Electromagnetic compatibility (EMC)
7.3.1.	L1e-L7e	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 ⁽⁴⁾
7.3.2.	L1e-L7e	Table or drawing of radio-interference control equipment : Refer to drawing No. M1PS-14
7.3.3.	L1e-L7e	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 ² (max. resistance: 13.3 Ohm/km) 2. 1.00 mm ² (max. resistance: 19.5 Ohm/km) 3. 0.75 mm ² (max. resistance: 26.0 Ohm/km) 4. 0.50 mm ² (max. resistance: 39.0 Ohm/km) 5. 0.30 mm ² (max. resistance: 69.2 Ohm/km)
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) : Not applicable
7.5.		Fuel storage : Not applicable
7.6.		On-board diagnostics (OBD) functional requirements
7.6.1		On-board diagnostics system
7.6.1.1.	L1e-L7e	Stage I : yes ⁽⁴⁾ and/or
7.6.1.2.	L1e-L7e	Stage II : yes ⁽⁴⁾
7.6.2.		<i>OBD system general information</i>
7.6.2.1.	L3e-L7e ⁽¹⁰⁾	Written description and/or drawing of the malfunction indicator (MI) : Refer to drawing No. M1PS-31
7.6.2.2.	L3e-L7e ⁽¹⁰⁾	List and purpose of all components monitored by the OBD system : See item 7.6.2.3.



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Item No	(Sub) categories	Detailed information							
7.6.2.3.	L3e-L7e ⁽¹⁰⁾	Written description (general working principles) for all OBD stage I circuit (open circuit, shorted low and high, rationality) and electronics (PCU/ECU internal and communication) diagnostics							
		Components	Fault Code	Monitor Strategy	Fault detection criteria	MI activation Criteria	Secondary Parameters	Pre-conditioning	Demonstration test
		Throttle	P0120	Accelerator (Handle) position sensor open circuit	Consumption = 0 A	/	/	N.A.	One type I
			P0122	Accelerator (Handle) position sensor circuit low	Accelerator(Handle) signal level less than 1% of the range	/	/	N.A.	One type I
			P0123	Accelerator (Handle) position sensor circuit high	Accelerator(Handle) signal level more than 99% of the range	/	/	N.A.	One type I
		Drive motor control module	U0110	Lost communication with drive motor control module	Time without receptions > 1 s	/	/	N.A.	One type I
		Drive motor temperature	P0A2C	Drive motor temperature sensor circuit low	Sensor signal level less than 1% of the range	/	/	N.A.	One type I
			P0A2D	Drive motor temperature sensor circuit high	Sensor signal level more than 99% of the range	/	/	N.A.	One type I
		System voltage	P0562	System voltage low	Main supply under voltage	/	/	N.A.	One type I
			P0563	System voltage high	Main supply over voltage	/	/	N.A.	One type I
7.6.2.4.	L3e-L7e ⁽¹⁰⁾	Written description (general working principles) for all OBD stage I diagnostic functionality triggering any operating mode which significantly reduces engine torque in case of fault detection : See item 7.6.2.3.							
7.6.2.5.	L3e-L7e ⁽¹⁰⁾	Written description of the communication protocol(s) supported : ISO 9141-2: 1994							
7.6.2.6.	L3e-L7e ⁽¹⁰⁾	Physical location of diagnostic-connector (add drawings and photographs) : Refer to drawing No. MIPS-31							

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Item No	(Sub) categories	Detailed information
7.6.2.7.	L3e-L7e ⁽¹⁰⁾	Written description in case of voluntary compliance with OBD stage II (general working principles) : Not applicable
7.6.3.		<i>OBD compatibility</i> <i>The following additional information shall be provided by the vehicle manufacturer to enable the manufacture of OBD-compatible replacement or service parts, diagnostic tools and test equipment:</i>
7.6.3.1.	L3e-L7e ⁽¹⁰⁾	A comprehensive document describing all sensed components concerned with the strategy for fault detection and MI activation (fixed number of driving cycles or statistical method). This shall, include a list of relevant secondary sensed parameters for each component monitored by the OBD system. The document shall also list all OBD output codes and formats (with an explanation of each) used in association with individual emission-related powertrain components and individual non-emission-related components, where monitoring the component is used to determine MI activation. This shall contain, in particular, a comprehensive explanation for the data given in service \$05 Test ID \$ 21 to FF and the data given in service \$06 : Not applicable
7.6.3.2.	L3e-L7e ⁽¹⁰⁾	For vehicle types using a communication link in accordance with ISO 15765-4 ‘Road vehicles, diagnostics on controller area network (CAN) — Part 4: requirements for emissions-related systems’, the manufacturer shall provide a comprehensive explanation for the data given in service \$06 Test ID \$00 to FF, for each OBD monitor ID supported : Not applicable
7.6.3.3.	L3e-L7e ⁽¹⁰⁾	The information required above may be provided in table form as described below. : See item 7.6.2.3.
7.6.3.4.	L3e-L7e ⁽¹⁰⁾	Description of ETC diagnostic fault codes : Not applicable
7.6.4.		<i>Communication protocol information</i> <i>The following information shall be referenced to a specific vehicle make, model and variant, or identified using other workable definitions such as VIN or vehicle and systems identification</i>

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Item No	(Sub) categories	Detailed information	
7.6.4.1.	L3e-L7e ⁽¹⁰⁾	Any protocol information system needed to enable complete diagnostics in addition to the standards prescribed in point 3.8. of Appendix 1 to Annex XII to Commission Delegated Regulation (EU) No 44/2014, such as additional hardware or software protocol information, parameter identification, transfer functions, 'keep alive' requirements, or error conditions	: Protocol information are implemented according to ISO 9141-2: 1994 Diagnostic service requirements according to ISO 15031-5:2011
7.6.4.2.	L3e-L7e ⁽¹⁰⁾	Details of how to obtain and interpret all fault codes not in accordance with the standards prescribed in point 3.11. of Appendix 1 to Annex XII to Commission Delegated Regulation (EU) No 44/2014	: Not applicable
7.6.4.3.	L3e-L7e ⁽¹⁰⁾	A list of all available live data parameters including scaling and access information	:

PID	Description	Min. value	Max. value	Units
01	Monitor status since DTCs cleared	/	/	/
02	Freeze DTC	/	/	/
04	Calculated load	0	100	%
05	Motor temperature	-40	215	°C
0C	Motor rpm	0	4000	rpm
11	Accelerator(Handle) position	0	100	%
21	Distance travelled with malfunction indicator lamp(MIL) on	0	65,535	km
42	Control module voltage	0	65.535	V

7.6.4.4.	L3e-L7e ⁽¹⁰⁾	A list of all available functional tests including device activation or control and the means to implement them	: Not applicable
7.6.4.5.	L3e-L7e ⁽¹⁰⁾	Details of how to obtain all component and status information, time stamps, pending DTC and freeze frames	: According to ISO 15031-5:2011
7.6.4.6.	L3e-L7e ⁽¹⁰⁾	PCU/ECU identification and variant coding	: Calibration software identification No.: M1PS Verification No.: 00000001
7.6.4.7.	L3e-L7e ⁽¹⁰⁾	Details of how to reset service lights	: According to ISO 15031-5: 2011
7.6.4.8.	L3e-L7e ⁽¹⁰⁾	Location of diagnostic connector and connector details	: Refer to drawing No. M1PS-31
7.6.4.9.	L3e-L7e ⁽¹⁰⁾	Engine code identification.	: See item 3.1.2.2.
7.6.5.		<i>Test and diagnosis of OBD monitored components</i>	



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Item No	(Sub) categories	Detailed information
7.6.5.1.	L3e-L7e ⁽¹⁰⁾	A description of tests to confirm its functionality, at the component or in the harness : See item 7.6.2.3.
7.7.		Passenger handholds and footrests
7.7.1.		<i>Handholds</i>
7.7.1.1.	L1e-L7e	Configuration : Strap and/or handle
7.7.1.2.	L1e-L7e	Photographs and/or drawings showing the location and the construction : Not applicable
7.7.2.		<i>Footrests</i>
7.7.2.1.	L1e-L7e	Photographs and/or drawings showing the location and the construction : Refer to drawing No. M1PS-28, M1PS-28.01
7.8.		Registration plate space
7.8.1.	L1e-L7e	Location of rear registration plate (indicate variants where necessary; drawings may be used as appropriate) : Refer to drawing No. M1PS-29, M1PS-29.01
7.8.1.1.	L1e-L7e	Height above road surface, upper edge : Refer to drawing No. M1PS-29, M1PS-29.01
7.8.1.2.	L1e-L7e	Height above road surface, lower edge : Refer to drawing No. M1PS-29, M1PS-29.01
7.8.1.3.	L1e-L7e	Distance of the center line from the longitudinal median plane of the vehicle : Refer to drawing No. M1PS-29, M1PS-29.01
7.8.1.4.	L1e-L7e	Dimensions (length x width) : Refer to drawing No. M1PS-29, M1PS-29.01
7.8.1.5.	L1e-L7e	Inclination of the plane to the vertical : Refer to drawing No. M1PS-29, M1PS-29.01
7.8.1.6.	L1e-L7e	Angle of visibility in the horizontal plane : Refer to drawing No. M1PS-29, M1PS-29.01
7.9.		Stands
7.9.1.	L1e, L3e	Configuration : Central and/or side ⁽⁴⁾
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 : Refer to drawing No. M1PS-27, M1PS-27.01
7.9.4.	L1e, L3e	Description of the method to prevent contact of the stand with the ground when the vehicle is being propelled : Refer to drawing No. M1PS-27, M1PS-27.01

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List of drawings:

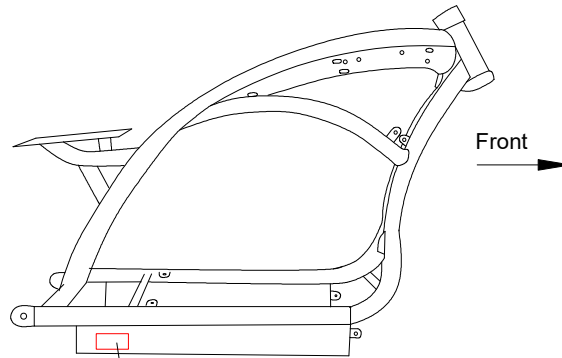
Drawing no.	Drawing subject
MIPS-01	Locations and detail of manufacturer's statutory plate
MIPS-02	Locations and detail of the vehicle identification number
MIPS-03	Dimension of vehicle
MIPS-03.01	Dimension of vehicle
MIPS-04	Chassis
MIPS-04.01	Chassis
MIPS-05	Position and arrangement of electric motor
MIPS-06	Position and arrangement of controller
MIPS-06.01	Position and arrangement of controller
MIPS-07	Control system of pure propulsion
MIPS-08	Installation of battery
MIPS-08.01	Installation of battery
MIPS-09	Fuse
MIPS-09.01	Circuit breaker
MIPS-10	Front suspension
MIPS-11	Rear suspension
MIPS-11-01	Rear suspension
MIPS-12	Location of audible warning device
MIPS-13	Electrical circuit diagram
MIPS-13.01	Electrical circuit diagram
MIPS-14	Location of power circuit components
MIPS-15	Hydraulic reservoir
MIPS-16	Brake hose
MIPS-17	Braking system
MIPS-18	Front & Rear brake pads
MIPS-19	Control I.D., tell-tales and indicators
MIPS-19.01	Control I.D., tell-tales and indicators
MIPS-20	Complete speedometer system
MIPS-21	Showing the location of lighting and light-signalling devices
MIPS-21.01	Showing the location of lighting and light-signalling devices
MIPS-21.02	Showing the location of lighting and light-signalling devices
MIPS-21.03	Showing the location of lighting and light-signalling devices
MIPS-22	Rear-view mirror and mirror installation
MIPS-22.01	Rear-view mirror and mirror installation
MIPS-23	Locations of high voltage label
MIPS-24	Location and detail of charging interface
MIPS-24.01	Location and detail of charging interface
MIPS-25	Steering geometry
MIPS-26	Steering lock system
MIPS-27	Location of side stand
MIPS-27.01	Location of side stand
MIPS-28	Construction and location of footrest
MIPS-28.01	Construction and location of footrest
MIPS-29	Mounting space for rear registration plate
MIPS-29.01	Mounting space for rear registration plate
MIPS-30	Power wiring harness
MIPS-30.01	Power wiring harness
MIPS-31	Location of diagnostic connector



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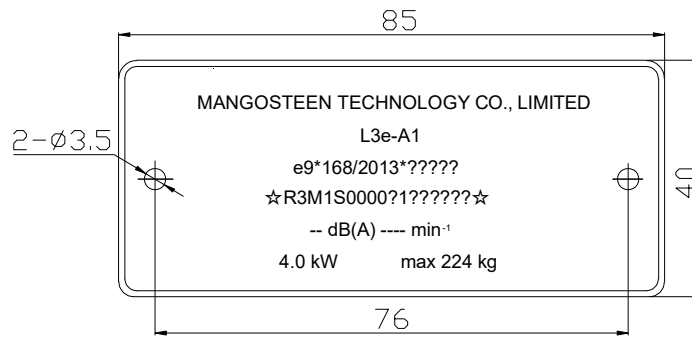
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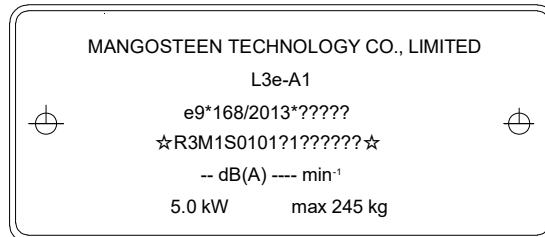


Manufacturer's statutory plate
Riveted on the right side of main frame
R, x1040, y115, z170

Variant/ Version 00/00:



Variant/ Version 01/01:



Text Height: 3 mm
Text depth: 0.3 mm

- R: right side of the vehicle
- x: horizontal distance (mm) from the front-most axle
- y: horizontal distance (mm) from the longitudinal centre line of the vehicle
- z: distance from the ground

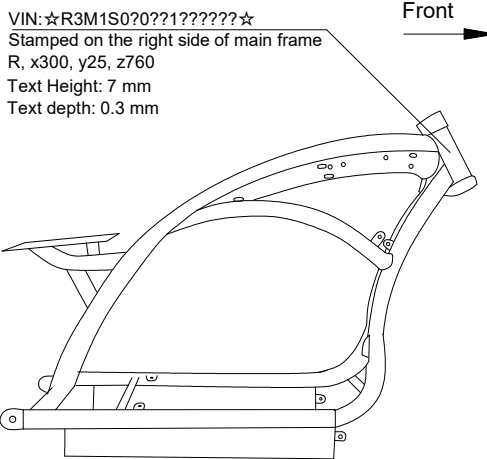
Vehicle Type	MIPS
Locations and detail of manufacturer's statutory plate	
Drawing No.	M1PS-01



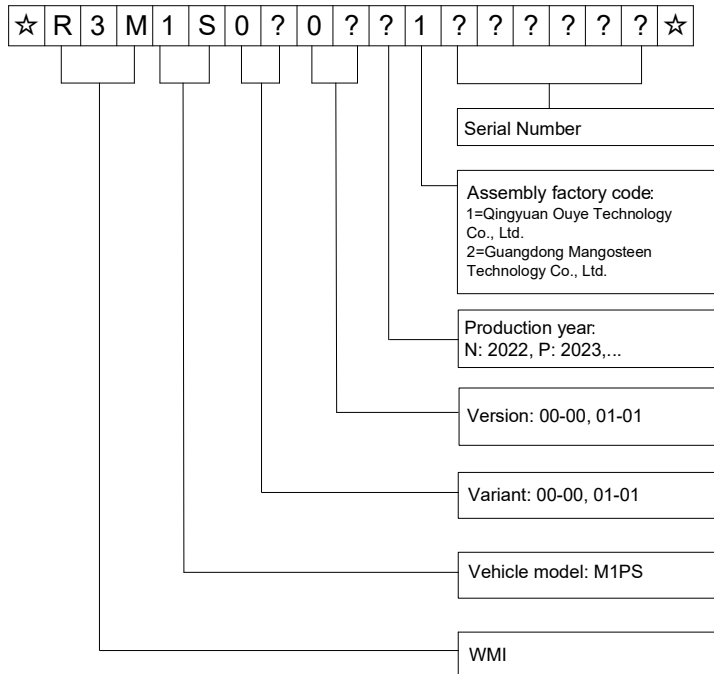
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VIN: ☆R3M1S0?0??1?????☆
 Stamped on the right side of main frame
 R, x300, y25, z760
 Text Height: 7 mm
 Text depth: 0.3 mm



- R. right side of the vehicle
- x: horizontal distance (mm) from the front-most axle
- y: horizontal distance (mm) from the longitudinal centre line of the vehicle
- z: distance from the ground

Vehicle Type	M1PS
Locations and detail of the vehicle identification number	
Drawing No.	M1PS-02.01



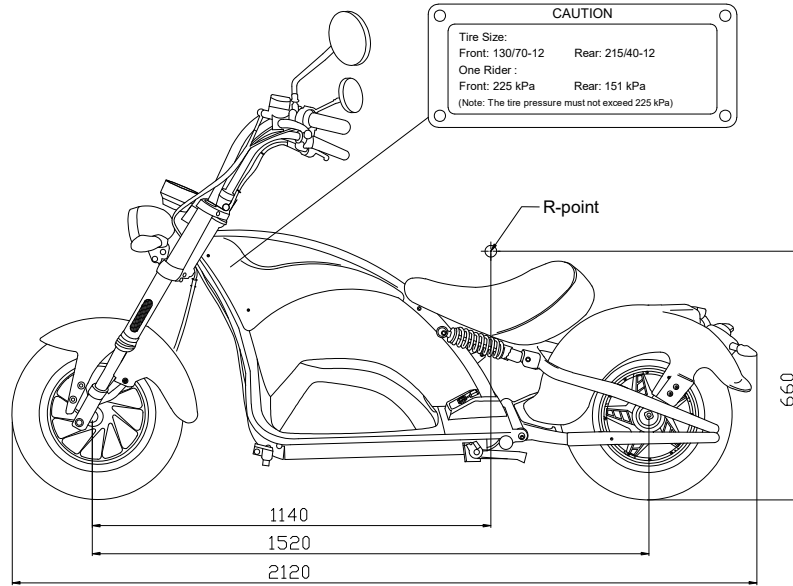
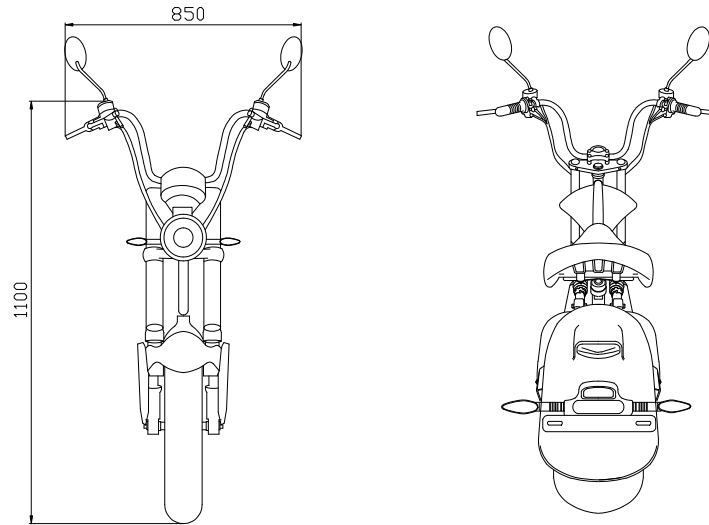
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Remark: vehicle handle tap is optional.

Version 00:



Vehicle Type	M1PS
Dimension of vehicle	
Drawing No.	M1PS-03



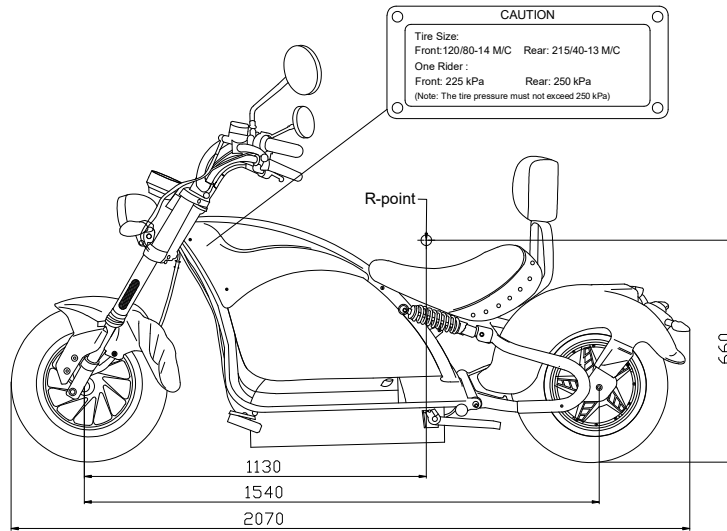
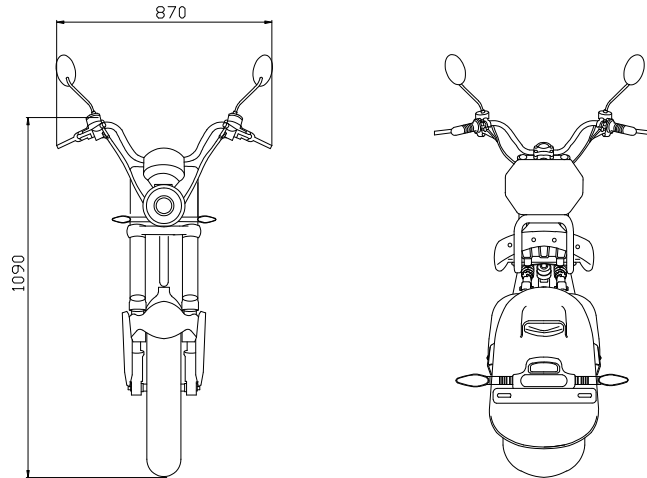
MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

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Remark: vehicle handle tap is optional.

Version 01:



改轴距，高度，标贴，座位 R 点离地

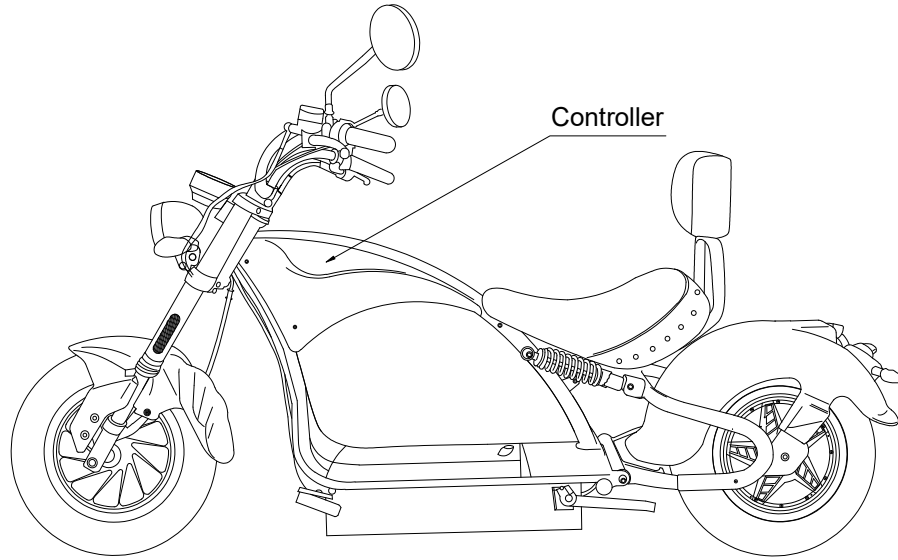
Vehicle Type	M1PS
Dimension of vehicle	
Drawing No.	M1PS-03.01



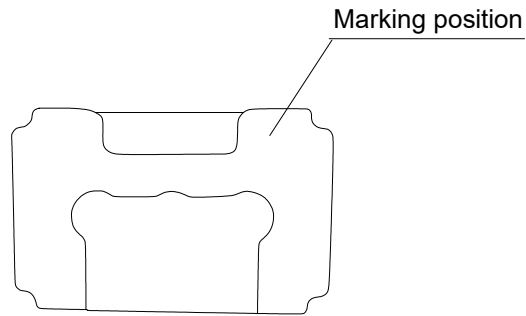
MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023



Detail:



Manufacturer: Jiangsu Yuanqu Technology Co., Ltd.

Type: MG72V270A_27_2_H67

Marking: MG72V270A_27_2_H67

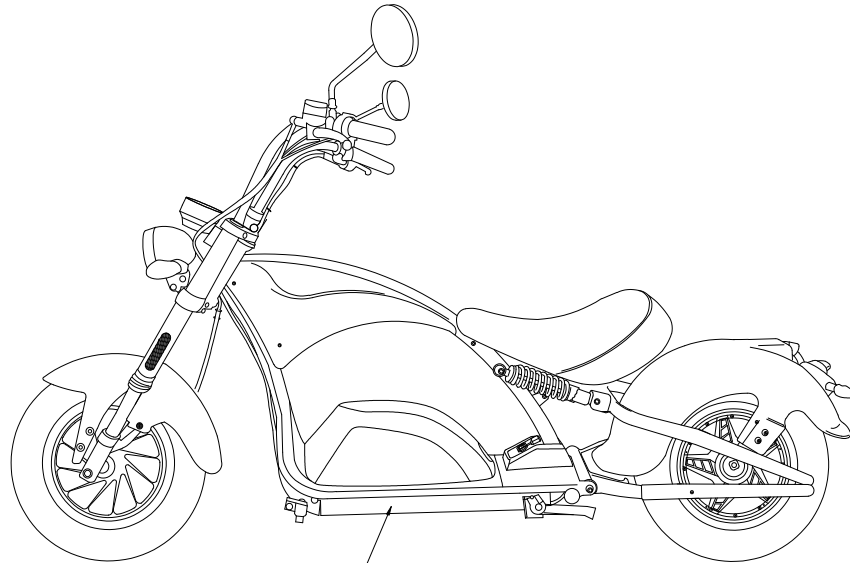
Vehicle Type	M1PS
Position and arrangement of controller	
Drawing No.	M1PS-06.01



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Information document number: 168/2013-M1PS-01

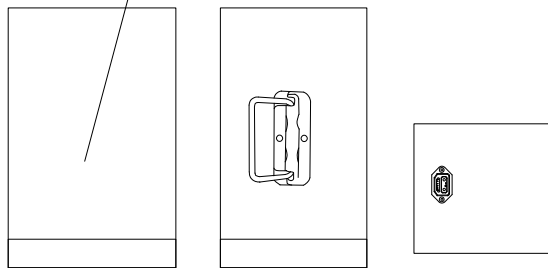
Date: 18.02.2023



Battery installation

Detail:

Marking position



Marking: 21700-20S8P

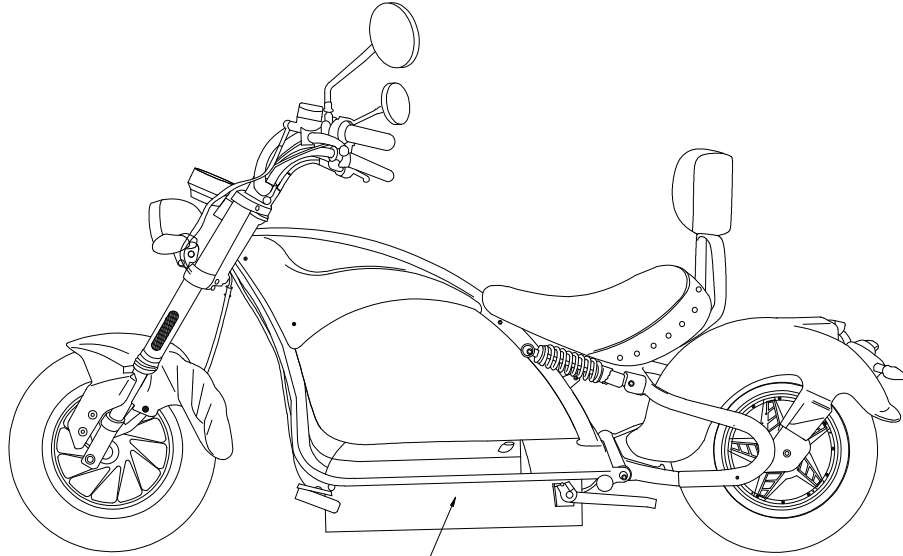
Vehicle Type	M1PS
Installation of battery	
Drawing No.	M1PS-08



MANGOSTEEN TECHNOLOGY CO., LIMITED

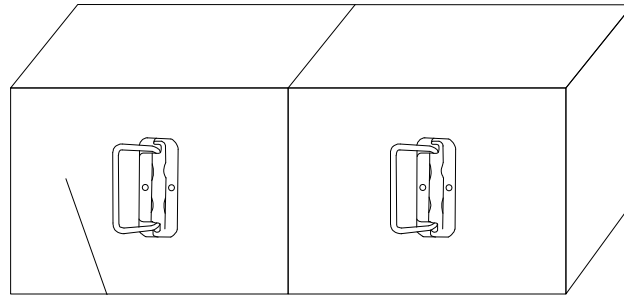
Information document number: 168/2013-M1PS-01

Date: 18.02.2023



Battery installation

Detail:



Marking position

Marking: HP72V40Ah

Vehicle Type	M1PS
Installation of battery	
Drawing No.	M1PS-08.01



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023



When the current reaches 200 A, the overload protector is disconnected.

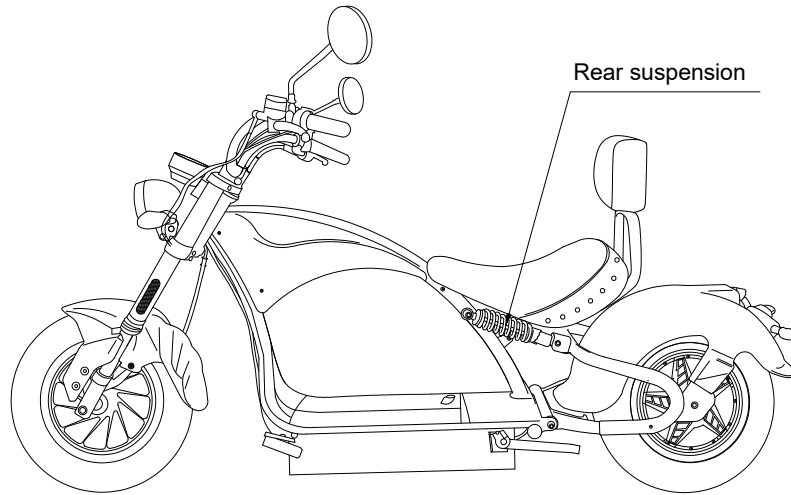
Vehicle Type	M1PS
Circuit breaker	
Drawing No.	M1PS-09.01



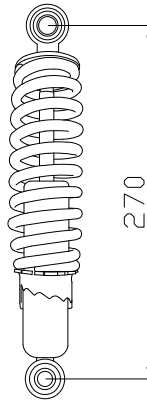
MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023



Detail:



Stroke: 50mm

新加图纸

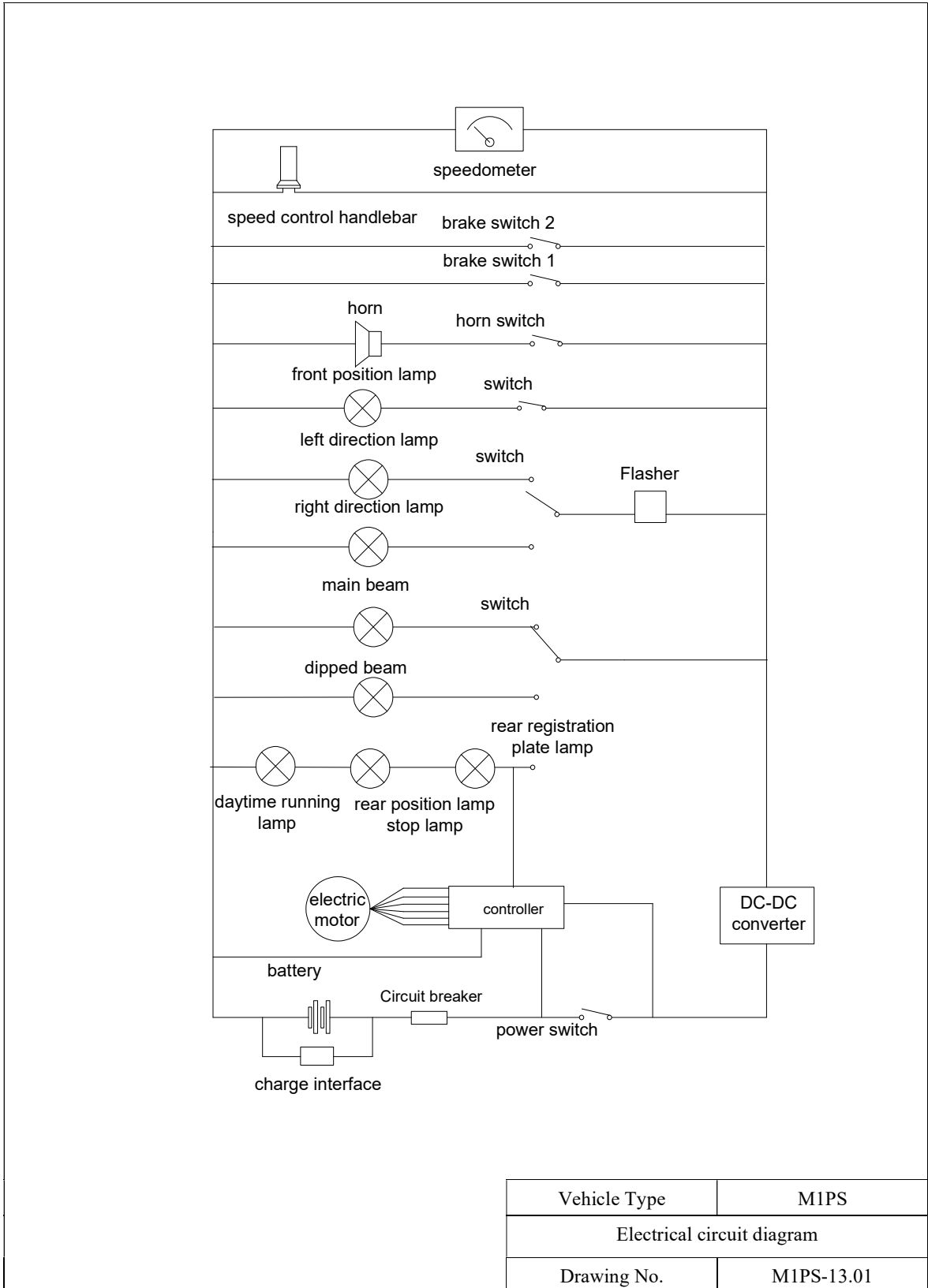
Vehicle Type	MIPS
Rear suspension	
Drawing No.	MIPS-11-01



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023



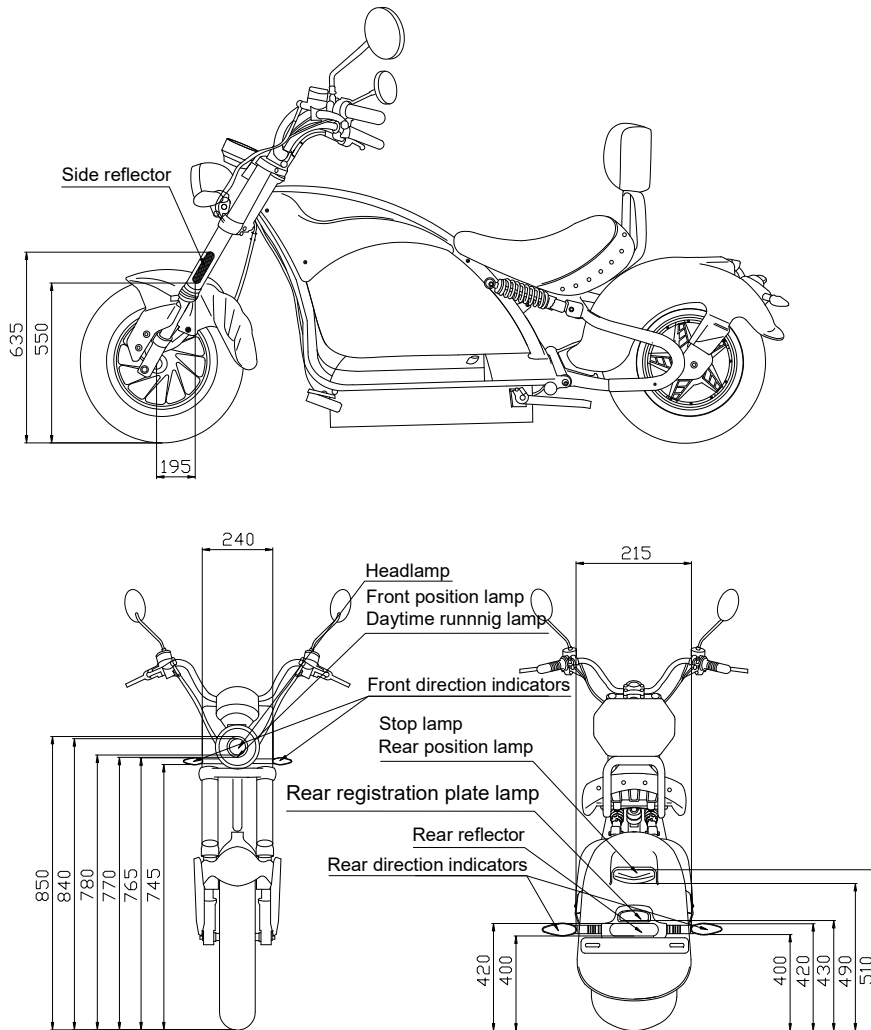
Vehicle Type	M1PS
Electrical circuit diagram	
Drawing No.	M1PS-13.01



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023



Vehicle Type	M1PS
Showing the location of lighting and light-signalling devices	
Drawing No.	M1PS-21.02

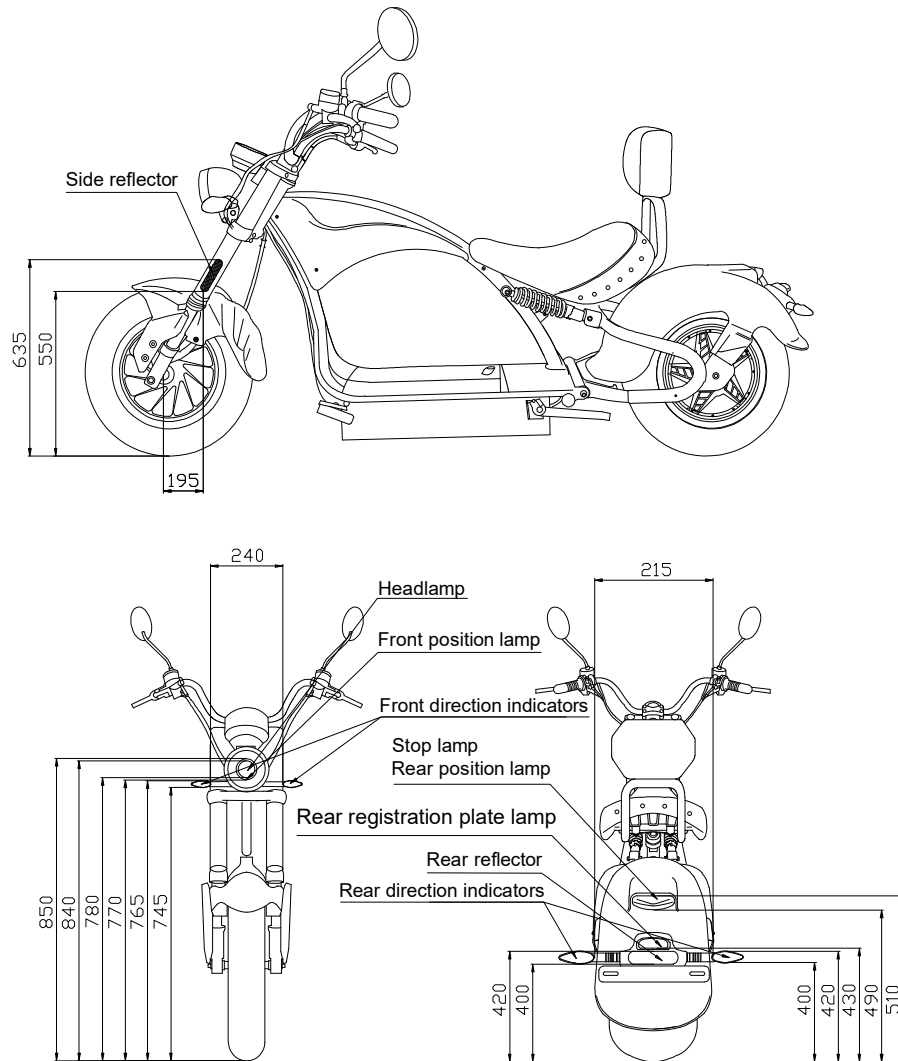


MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

Remark : Passing beam with function of automatically switch on, when vehicle ignition on



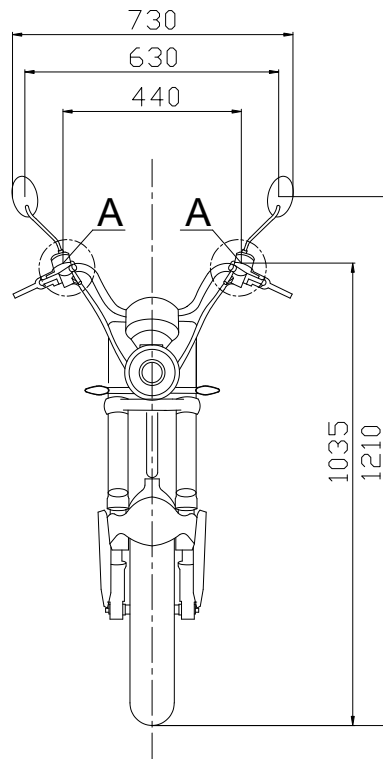
Vehicle Type	M1PS
Showing the location of lighting and light-signalling devices	
Drawing No.	M1PS-21.03



MANGOSTEEN TECHNOLOGY CO., LIMITED

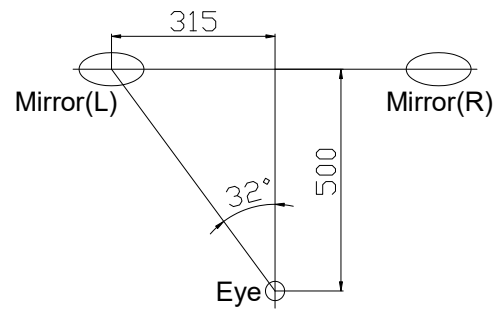
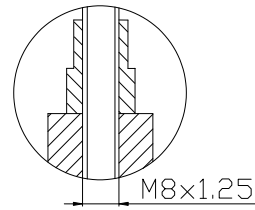
Information document number: 168/2013-M1PS-01

Date: 18.02.2023



Detail:

A-A



Make: XIONGXIN
Type: XX-005
Approval mark: L E11 002066

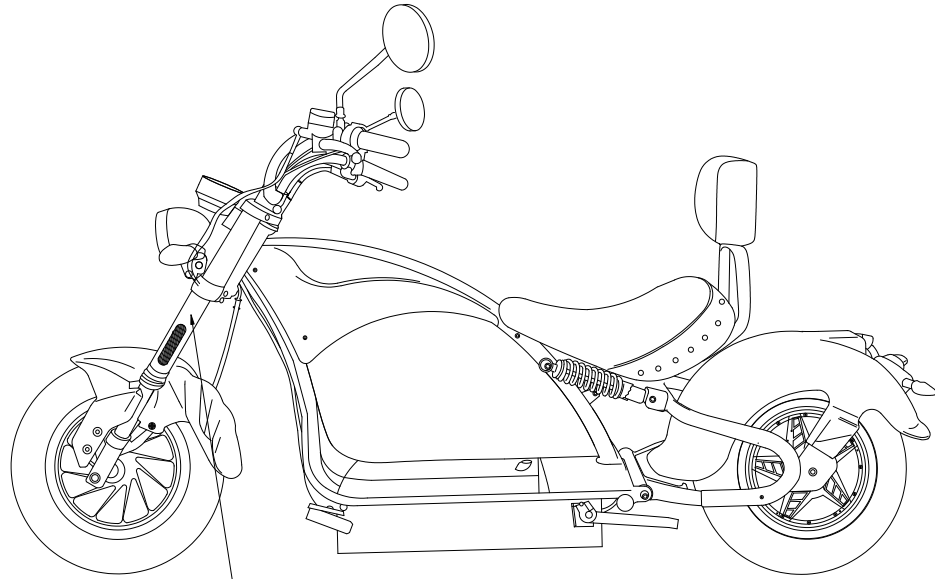
Vehicle Type	M1PS
Rear-view mirror and mirror installation	
Drawing No.	M1PS-22.01



MANGOSTEEN TECHNOLOGY CO., LIMITED

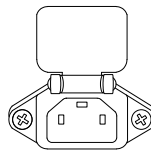
Information document number: 168/2013-M1PS-01

Date: 18.02.2023



Charging interface

Detail:



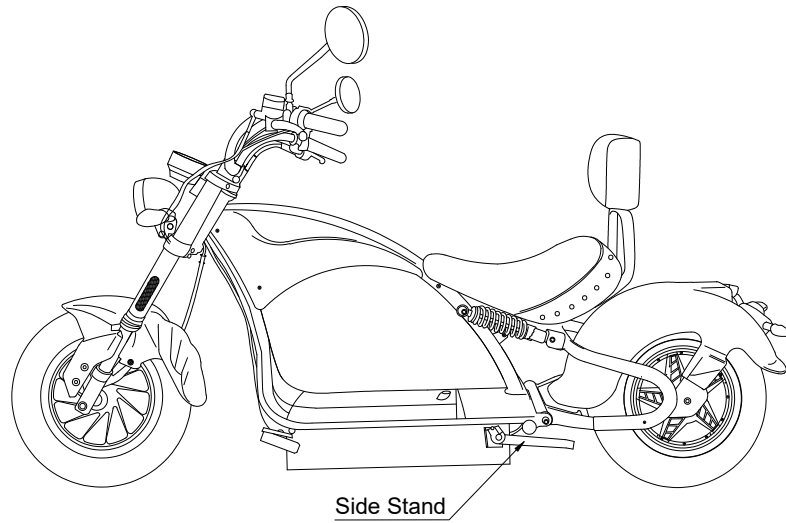
Vehicle Type	M1PS
Location and detail of charging interface	
Drawing No.	M1PS-24.01



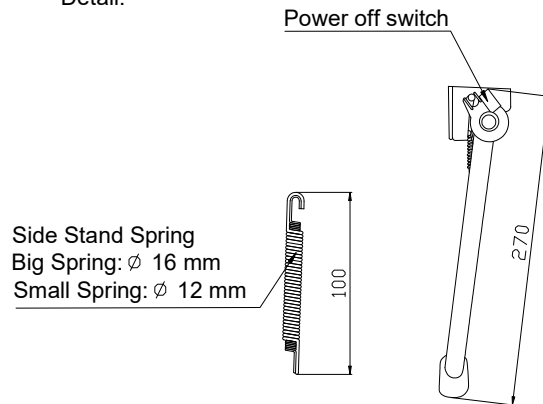
MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023



Detail:



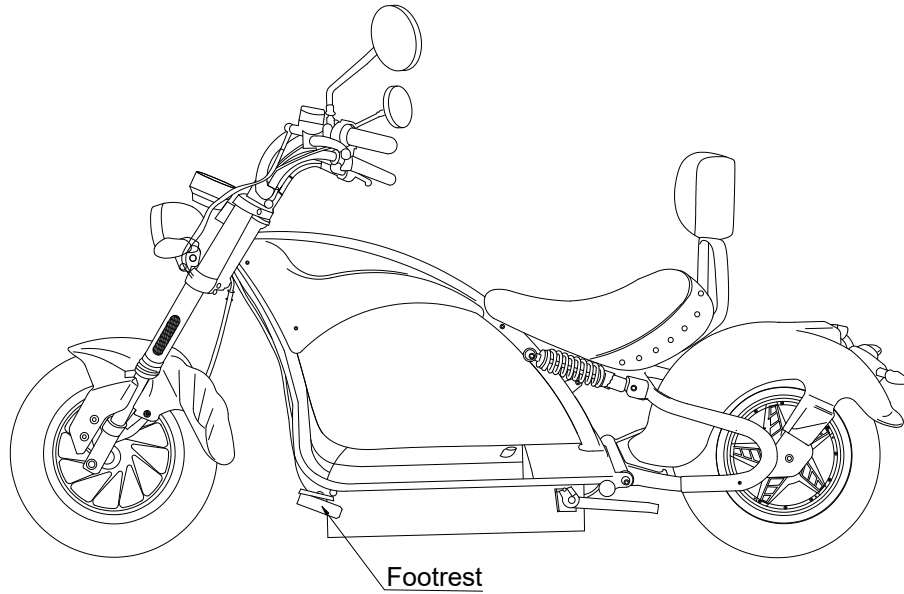
Vehicle Type	M1PS
Location of side stand	
Drawing No.	M1PS-27.01



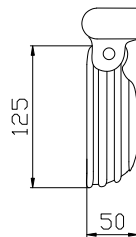
MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023



Detail:



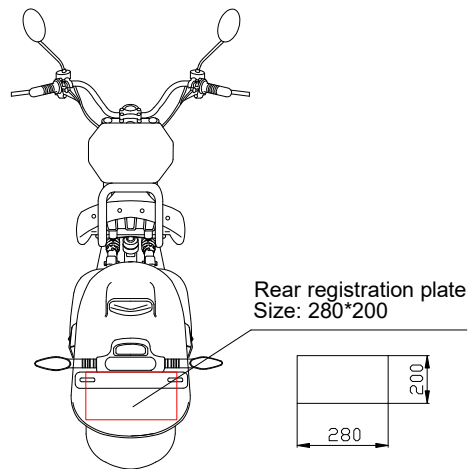
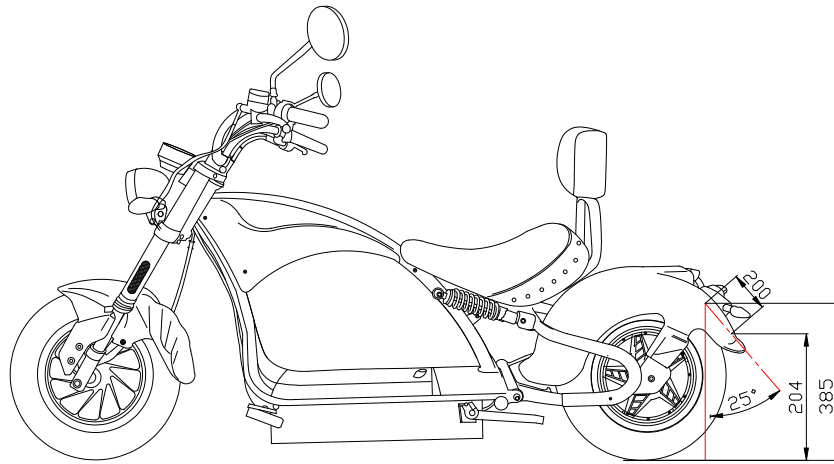
Vehicle Type	MIPS
Construction and location of footrest	
Drawing No.	M1PS-28.01



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023



Vehicle Type	M1PS
Mounting space for rear registration plate	
Drawing No.	M1PS-29.01

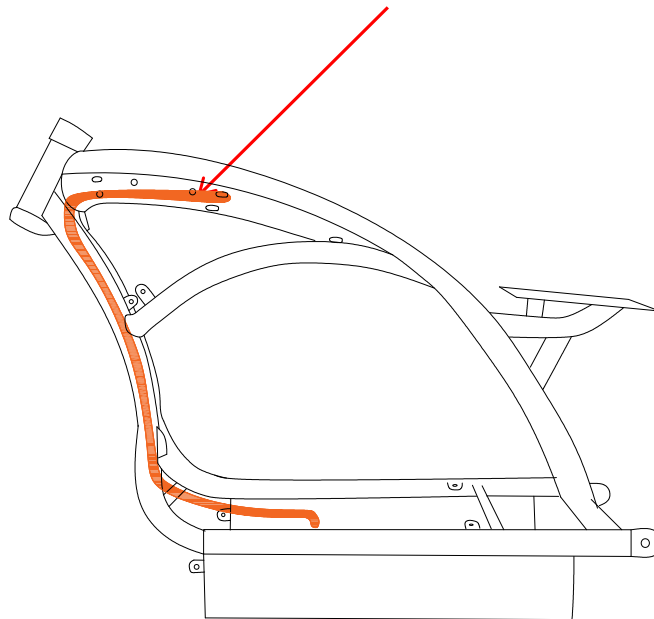


MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

Power wiring harness



Vehicle Type	M1PS
Power wiring harness	
Drawing No.	M1PS-30.01



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

STATEMENT ON ENDURANCE TESTING

(Annex V to Commission Delegated Regulation (EU) number 3/2014)

(A duly completed version of this statement shall be included in the information folder)

The undersigned : < Mrs. Jian Tianxiu / General Manager >

Company name and address of the manufacturer : MANGOSTEEN TECHNOLOGY CO., LIMITED
FLAT 01C3, 10/F CARNIVAL COMMERCIAL
BUILDING 18 JAVA ROAD, North Point,
HONG KONG, CHINA

Name and address of the manufacturer's representative (if any) : GreenKar Automotive S.r.l.
Via di Quarto Peperino, 22 CAP 00188 - Roma,
Italy

Hereby states that the vehicles:

0.1. Make (trade name of the manufacturer) : MANGOSTEEN

0.2. Type : M1PS

0.2.1. Variant(s) : 00, 01

0.2.2. Version(s) : 00, 01

0.2.3. Commercial name(s) (if available) : M1PS

0.3. Category, subcategory and sub-subcategory of vehicle : L3e-A1

for which type-approval is sought shall withstand normal use as intended for at least 30,000 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, China

Date : 18.02.2023

Signature :

简天秀



Name and position in the company : Mrs. Jian Tianxiu, General Manager



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

STATEMENT ON STRUCTURE INTEGRITY

(Annex XIX to Commission Delegated Regulation (EU) number 3/2014)

(A duly completed version of this statement shall be included in the information folder)

The undersigned : < Mrs. Jian Tianxiu / General Manager >

Company name and address of the manufacturer : MANGOSTEEN TECHNOLOGY CO., LIMITED
FLAT 01C3, 10/F CARNIVAL COMMERCIAL
BUILDING 18 JAVA ROAD, North Point,
HONG KONG, CHINA

Name and address of the manufacturer's representative (if any) : GreenKar Automotive S.r.l.
Via di Quarto Peperino, 22 CAP 00188 - Roma,
Italy

Hereby states that the vehicles:

0.1. Make (trade name of the manufacturer) : MANGOSTEEN

0.2. Type : M1PS

0.2.1. Variant(s) : 00, 01

0.2.2. Version(s) : 00, 01

0.2.3. Commercial name(s) (if available) : M1PS

0.3. Category, subcategory and sub-subcategory of vehicle : L3e-A1

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, China

Date : 18.02.2023

Signature :

简天秀



Name and position in the company : Mrs. Jian Tianxiu, General Manager



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

MANUFACTURER'S CERTIFICATE ON ACCESS TO VEHICLE OBD (STAGE I) AND VEHICLE REPAIR AND MAINTENANCE INFORMATION

(A duly completed version of this statement shall be included in the information folder)

Reference number: 168/2013-M1PS-01

The undersigned : < Mrs. Jian Tianxiu / General Manager >
Company name and address of the manufacturer : MANGOSTEEN TECHNOLOGY CO., LIMITED
FLAT 01C3, 10/F CARNIVAL COMMERCIAL
BUILDING 18 JAVA ROAD, North Point,
HONG KONG, CHINA
Name and address of the manufacturer's
representative (if any) : GreenKar Automotive S.r.l.
Via di Quarto Peperino, 22 CAP 00188 - Roma,
Italy

Hereby certifies that:

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

- Chapter XV of regulation (EU) No168/2013

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~~ ⁽¹⁾.

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, China

Date : 18.02.2023

Signature :

简天秀



Name and position in the company : Mrs. Jian Tianxiu, General Manager



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

Addenda:

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

Addendum 1

TO

MANUFACTURER'S CERTIFICATE WITH REFERENCE NUMBER 168/2013-M1PS-01 ON ACCESS TO VEHICLE OBD (STAGE I) AND VEHICLE REPAIR AND MAINTENANCE INFORMATION

LIST OF THE TYPES OF VEHICLE:

- | | | |
|--------|---|-----------------|
| 0.2. | Type | : M1PS |
| 0.2.1. | Variant(s) | : 00, 01 |
| 0.2.2. | Version(s) | : 00, 01 |
| 0.2.3. | Commercial name(s) (if available) | : M1PS |
| 0.3. | Category, subcategory and sub-subcategory | |
| 0.3. | Category, subcategory and sub-subcategory | |

of vehicle : L3e-A1

- | | | |
|------|--|--------|
| 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:

- | | | |
|------|--|------------|
| | Combustion engine / electric motor/ hybrid application ⁽¹⁾ code | : MGSD72VA |
| 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. |



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

Addendum 2

TO

MANUFACTURER'S CERTIFICATE WITH REFERENCE NUMBER 168/2013-M1PS-01 ON ACCESS TO VEHICLE OBD (STAGE I) AND VEHICLE REPAIR AND MAINTENANCE INFORMATION

Web site addresses referred to in this certificate:

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

Addendum 3

TO

MANUFACTURER'S CERTIFICATE WITH REFERENCE NUMBER 168/2013-M1PS-01 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: GreenKar Automotive S.r.l.

Address: Via di Quarto Peperino, 22 CAP 00188 - Roma, Italy

Name and position in the company: LARA VAGNOZZI, representative

TEL: +39.06.3328285

e-mail: segreteria@greenkarautomotive.it; greenkar@legalmail.it



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

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

(A duly-completed version of this statement shall be included in the information folder)

0.4. Company name and address of the manufacturer : MANGOSTEEN TECHNOLOGY CO., LIMITED
FLAT 01C3, 10/F CARNIVAL COMMERCIAL
BUILDING 18 JAVA ROAD, North Point,
HONG KONG, CHINA

0.4.2. Name and address of the manufacturer's
representative (if any) : GreenKar Automotive S.r.l.
Via di Quarto Peperino, 22 CAP 00188 - Roma,
Italy

Hereby states that the vehicles:

For the L3e-A1 category vehicle:

0.1. Make (trade name of the manufacturer) : MANGOSTEEN
0.2. Type : M1PS
0.2.1. Variant(s) : 00, 01
0.2.2. Version(s) : 00, 01
0.2.3. Commercial name(s) (if available) : M1PS
0.3. Category, subcategory and sub-subcategory

of vehicle : L3e-A1

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 applicale~~
- (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



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

(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

ADDITIONAL STATEMENT REGARDING POINT 2.8.3. OF ANNEX II TO COMMISSION DELEGATED REGULATION (EU) No 44/2014

Any reprogrammable computer codes or operating parameter afford a level of protection at least as high as the provisions in ISO 15031-7:2001, provided that the security exchange is conducted using the communication protocols and standardized diagnostic connector prescribed in Appendix 1 to Annex XII.

Place : Hong Kong, China

Date : 18.02.2023

Signature :

简天秀



Name and position in the company : Mrs. Jian Tianxiu, General Manager



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

STATEMENT ON NONE "DEFEAT DEVICE"

The undersigned : < Mrs. Jian Tianxiu / General Manager >

Company name and address of the manufacturer : MANGOSTEEN TECHNOLOGY CO., LIMITED
FLAT 01C3, 10/F CARNIVAL COMMERCIAL
BUILDING 18 JAVA ROAD, North Point, HONG
KONG, CHINA

Name and address of the manufacturer's
representative (if any) : GreenKar Automotive S.r.l.
Via di Quarto Peperino, 22 CAP 00188 - Roma,
Italy

Hereby states that the vehicles:

0.1. Make (trade name of the manufacturer) : MANGOSTEEN

0.2. Type : M1PS

0.2.1. Variant(s) : 00, **01**

0.2.2. Version(s) : 00, **01**

0.2.3. Commercial name(s) (if available) : M1PS

0.3. Category, subcategory and sub-subcategory
of vehicle : L3e-A1

are not using any software or device that can be considered as "defeat device" which may impact the emission performance of the vehicles.

Place : Hong Kong, China

Date : 18.02.2023

Signature :

简天秀



Name and position in the company : Mrs. Jian Tianxiu, General Manager

CN23040135

IDIADA



MANGOSTEEN TECHNOLOGY CO., LIMITED

Information document number: 168/2013-M1PS-01

Date: 18.02.2023

Statement Concerning Authority of Signature on COC Paper

We, MANGOSTEEN TECHNOLOGY CO., LIMITED, declare that the undersigned, Mrs. Jian Tianxiu / General Manager of our company, will be the authorized person to sign the COC paper of the Vehicles.

Type: M1PS

Specification of signature of COC:

Signed:

简天秀



MANGOSTEEN TECHNOLOGY CO., LIMITED

Date: 18.02.2023

COMPLETE VEHICLE EU CERTIFICATE OF CONFORMITY

The undersigned, Mrs. Jian Tianxiu / General Manager
Hereby certifies that the following complete vehicle:

- 0.1. Make (trade name of the manufacturer): MANGOSTEEN
- 0.2. Type: M1PS
- 0.2.1. Variant: 00
- 0.2.2. Version: 00
- 0.2.3. Commercial name (if available): M1PS
- 0.3. Category, subcategory and sub-subcategory of vehicle: L3e-A1
- 0.4. Company name and address of manufacturer:
MANGOSTEEN TECHNOLOGY CO., LIMITED
FLAT 01C3, 10/F CARNIVAL COMMERCIAL BUILDING 18 JAVA ROAD, North Point,
HONG KONG, CHINA
- 0.4.2. Name and address of manufacturer's authorized representative (if any):
GreenKar Automotive S.r.l.
Via di Quarto Peperino, 22 CAP 00188 - Roma, Italy
- 0.5.1. Location of the manufacturer's statutory plate(s): R, x1040, y115, z170
- 0.5.2. Method of attachment of the manufacturer's statutory plate(s): By riveting
- 0.6. Location of the vehicle identification number: R, x300, y25, z760
- 1. Vehicle identification number: ☆R3M1S0000?1?????☆

Conforms in all respects to the type described in EU type-approval e9*168/2013*11965*01 (type-approval number including extension number) (type-approval number including extension number) issued on XX.XX.XXXX (date of issue) (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

Place

XX.XX.XXXX

Date

简天秀

(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: 2120 mm
- 2.2.2. Width: 850 mm
- 2.2.3. Height: 1100 mm
- 2.2.4. Wheelbase: 1520 mm
- 2.2.4.1. Wheelbase sidecar: N.A.
- 2.2.5. Track width: N.A.
- 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: 80 kg
- 2.1.2. Actual mass: 174 kg
- 2.1.3. Technically permissible maximum laden mass: 224 kg
- 2.1.3.1. Technically permissible maximum mass on front axle: 77 kg
- 2.1.3.2. Technically permissible maximum mass on rear axle: 147 kg
- 2.1.3.3. Technically permissible maximum mass on sidecar axle: N.A.
- 2.1.7. Technically permissible maximum towable mass: N.A.
- 2.1.7.1. Braked: N.A. Unbraked: N.A.
- 2.1.7.1.1. 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~~
- 3.2.1.4.1. Number of cylinders: N.A.
- 3.2.1.4.2. Arrangement of cylinders: ~~I / V / O / S~~
- 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~~
- 3.2.3.2.1. Maximum amount of bio-fuel acceptable in fuel: N.A.

iDiADA CN23040135

- 3.1.2.1. Manufacturer: Taizhou Quanshun electric Drive Technology Co., Ltd.
- 3.1.2.2. Electric motor code (as marked on the engine or other means of identification): MGSD72VA ?????
- 3.3.3.4. ~~15/30 minutes power:~~ 4.0 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/not off-vehicle charging~~
- 3.9.2. Maximum assistance factor: N.A.

Maximum speed

- 1.8. Maximum speed of vehicle: 80 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:

Axle 1: 130/70-12 56L or 56K	Axle 2: 215/40-12 52M
Minimum Load capacity index:	
Axle 1: 19	Axle 2: 42
Minimum speed category symbol:	
Axle 1: F	Axle 2: F
Recommended pressure:	
Axle 1: 225 kpa	Axle 2: 151 kpa
Rim size	
Axle 1: 12*MT2.75 or 3.50X12	Axle 2: 12*7.5
Sidecar wheel: N.A.	

Bodywork

- 6.20.2.1. Door configuration and number of doors: N.A.
- 6.16.1. Number of seating position: 1
- 6.16.1.1. Location and arrangement: N.A.

Coupling devices

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

Environmental performance

- 4.0.1. Environmental step: Euro 5 (3/4/5/5+)⁽⁴⁾
- 4.0.6. Sound level measured according to: N.A.
- 4.0.6.1. Stationary: N.A.
- 4.0.6.2. Drive-by : N.A.
- 4.0.6.3. Limit value for L_{urban}: N.A.
- 3.2.15. Exhaust emissions measured according to N.A.
- 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. ppm at normal idling speed and: N.A. ppm at high idle speed
CO: N.A. %vol at normal idling speed and: N.A. %vol at high idle speed
- 3.2.15.3. Smoke corrected absorption coefficient: N.A.

Energy efficiency

- 4.0.2. Fuel consumption: N.A.
- 4.0.3. CO₂ emissions: N.A.
- 4.0.4. Energy consumption: 40 Wh/km
- 4.0.5. Electric range: 102 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

Additional information:

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

COMPLETE VEHICLE EU CERTIFICATE OF CONFORMITY

The undersigned, Mrs. Jian Tianxiu / General Manager
Hereby certifies that the following complete vehicle:

- 0.1. Make (trade name of the manufacturer): MANGOSTEEN
- 0.2. Type: M1PS
- 0.2.1. Variant: 01
- 0.2.2. Version: 01
- 0.2.3. Commercial name (if available): M1PS
- 0.3. Category, subcategory and sub-subcategory of vehicle: L3e-A1
- 0.4. Company name and address of manufacturer:
MANGOSTEEN TECHNOLOGY CO., LIMITED
FLAT 01C3, 10/F CARNIVAL COMMERCIAL BUILDING 18 JAVA ROAD, North Point,
HONG KONG, CHINA
- 0.4.2. Name and address of manufacturer's authorized representative (if any):
GreenKar Automotive S.r.l.
Via di Quarto Peperino, 22 CAP 00188 - Roma, Italy
- 0.5.1. Location of the manufacturer's statutory plate(s): R, x1040, y115, z170
- 0.5.2. Method of attachment of the manufacturer's statutory plate(s): By riveting
- 0.6. Location of the vehicle identification number: R, x300, y25, z760
- 1. Vehicle identification number: ☆R3M1S0101?1?????☆

Conforms in all respects to the type described in EU type-approval e9*168/2013*11965*01 (type-approval number including extension number) (type-approval number including extension number) issued on XX.XX.XXXX (date of issue) (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

Place

XX.XX.XXXX

Date

简天秀

(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: 2070 mm
- 2.2.2. Width: 870 mm
- 2.2.3. Height: 1060 mm
- 2.2.4. Wheelbase: 1510 mm
- 2.2.4.1. Wheelbase sidecar: N.A.
- 2.2.5. Track width: N.A.
- 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: 88 kg
- 2.1.2. Actual mass: 195 kg
- 2.1.3. Technically permissible maximum laden mass: 245 kg
- 2.1.3.1. Technically permissible maximum mass on front axle: 108 kg
- 2.1.3.2. Technically permissible maximum mass on rear axle: 137 kg
- 2.1.3.3. Technically permissible maximum mass on sidecar axle: N.A.
- 2.1.7. Technically permissible maximum towable mass: N.A.
- 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~~
- 3.2.1.4.1. Number of cylinders: N.A.
- 3.2.1.4.2. Arrangement of cylinders: ~~I / V / O / S~~
- 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~~
- 3.2.3.2.1. Maximum amount of bio-fuel acceptable in fuel: N.A.

iDiADA CN23040135

- 3.1.2.1. Manufacturer: Taizhou Quanshun electric Drive Technology Co., Ltd.
- 3.1.2.2. Electric motor code (as marked on the engine or other means of identification): MGSD72VA ?????
- 3.3.3.4. ~~15/30 minutes power:~~ 5.0 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/not off-vehicle charging~~
- 3.9.2. Maximum assistance factor: N.A.

Maximum speed

- 1.8. Maximum speed of vehicle: 100 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:

Axle 1: 120/80-14 M/C 58S or 58P	Axle 2: 215/40-13 M/C 56J
Minimum Load capacity index:	
Axle 1: 31	Axle 2: 40
Minimum speed category symbol:	
Axle 1: J	Axle 2: J
Recommended pressure:	
Axle 1: 225 kpa	Axle 2: 250 kpa
Rim size	
Axle 1: MT3.0X14 or 2.75×14	Axle 2: 13*6.5J or 7.50X13
Sidecar wheel: N.A.	

Bodywork

- 6.20.2.1. Door configuration and number of doors: N.A.
- 6.16.1. Number of seating position: 1
- 6.16.1.1. Location and arrangement: N.A.

Coupling devices

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

Environmental performance

- 4.0.1. Environmental step: Euro 5 (3/4/5/5+)⁽⁴⁾
- 4.0.6. Sound level measured according to: N.A.
- 4.0.6.1. Stationary: N.A.
- 4.0.6.2. Drive-by : N.A.
- 4.0.6.3. Limit value for L_{urban}: N.A.
- 3.2.15. Exhaust emissions measured according to N.A.
- 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. ppm at normal idling speed and: N.A. ppm at high idle speed
CO: N.A. %vol at normal idling speed and: N.A. %vol at high idle speed

- 3.2.15.3. Smoke corrected absorption coefficient: N.A.

Energy efficiency

- 4.0.2. Fuel consumption: N.A.
- 4.0.3. CO₂ emissions: N.A.
- 4.0.4. Energy consumption: 47 Wh/km
- 4.0.5. Electric range: 135 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

Additional information:

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