



IEC/EN 62368-1 Audio/video, information and communication technology equipment Part 1: Safety requirements

Report Number	YCT2024SZ0520698S	
Date of issue	May 23, 2024	
Total number pages	71	
Applicant's name	Taizhou Chifeng Electric Technology Co., Ltd.	
Address	0003-2,Yongyuan Road, Luqiao Street, Luqiao District, Taizhou City, Zhejiang Province,China	
Test specification:		
Standard	EC 62368-1:2018	
	EN IEC 62368-1:2020+A11:2020	
Test procedure	: Type Test	
Non-standard test method	N/A	
Test Report Form No	IEC62368_1B	
Test Report Form(s) Originator	UL(US)	
Master TRF	2020-03	
This device described above has bee under test (EUT) is in compliance wit tested sample identified in the report.	en tested by YCT, and the test results show that the equipment h the 2014/35/EU requirements. And it is applicable only to the	
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Tes	Testing procedure and testing location:					
	Testing Laboratory:	Shenzhen Yacetong Testing Technology Services Co., Ltd.				
Tes	ting location/ address:	Room 310, No.12, Tongfu Industrial Zone, Xinhe Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China				
	Associated CB Testing Laboratory:	1				
Testing location/ address:		/				
	Tested by (name + signature):	Harry Chen/ Test Engineer	Heresey Techner			
	Checked by (name + signature):	Peter peng/ Project Engineer	APPROVED			
	Approved by (name + signature):	Jim he / Project Engineer	THE TOTAL			

- European group differences	YC
Summary of testing:	
Tests performed (name of test and test	Testing location:
clause): The submitted samples were found to comply	Shenzhen Yacetong Testing Technology Services Co., Ltd.
with the requirements of: Electrical safety - IEC 62368-1:2018 - EN IEC 62368-1:2020+A11:2020	Room 310, No.12, Tongfu Industrial Zone, Xinhe Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China

List of countries addressed: European group differences and national differences.

The product fulfils the requirements of -EN IEC 62368-1:2020+A11:2020







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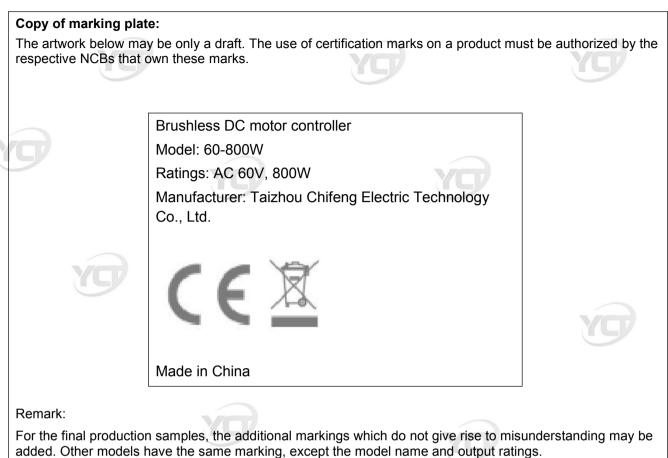
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TEST ITEM PARTICULARS:	
Classification of use by:	 Ordinary person Instructed person Skilled person Children likely to be present
Supply Connection:	AC Mains DC Mains External Circuit – not Mains connected - ES1 ES2 ES3
Supply % Tolerance:	 □ +10%/-10% □ +20%/-15% □ +%/% □ None
Supply Connection – Type:	 pluggable equipment type A - non-detachable supply cord appliance coupler direct plug-in mating connector pluggable equipment type B - non-detachable supply cord appliance coupler permanent connection mating connector \overline other:
Considered current rating of protective device as part of building or equipment installation	16A(EU), 20A(US); Installation location: ⊠ building; □ equipment
Equipment mobility:	 movable hand-held transportable stationary for building-in direct plug-in rack-mounting wall-mounted
Over voltage category (OVC):	□ OVC I ⊠ OVC II □ OVC III □ OVC IV □ other:
Class of equipment:	🗌 Class I 🛛 🖾 Class II 🗌 Class III
Access location:	□ restricted access location
Pollution degree (PD):	□ PD 1 ⊠ PD 2 □ PD 3
Manufacturer's specified maxium operating ambient :	45°C
IP protection class:	⊠ IPX0 □ IP
Power Systems:	⊠ TN □ TT□ IT V L-L
Altitude during operation (m):	⊠ 2000 m or less □ m
Altitude of test laboratory (m):	⊠ 2000 m or less □ m
Mass of equipment (kg):	⊠ <7kg.

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POSSIBLE TEST CASE VERDICTS:	
- test case does not apply to the test object	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
TESTING:	
Date of receipt of test item	May 15, 2024
Date (s) of performance of tests	May 15, 2024 ~ May 23, 2024
GENERAL REMARKS:	
"(See Enclosure #)" refers to additional information	on appended to the report.
"(See appended table)" refers to a table appended	to the report.
Throughout this report a \square comma / \boxtimes point is u	used as the decimal separator.
Manufacturer's Declaration per sub-clause 4.2.5 of	IECEE 02:
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.	□ Yes S S S S S S S S S S S S S S S S S S S
When differences exist; they shall be identified in t	the General product information section.
Name and address of factory (ies)	: Same as manufacturer
GENERAL PRODUCT INFORMATION:	
Product Description –	
	oller used for audio/video, information and communicatio unted on PWB, housed in plastic enclosure sealed by
Model Differences –	
General product information: All models are identical rating. They do not affect safety and electromagnetic	only except for model name, output terminal type, output compatibility performance.











ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:				
(Note 1: Identify the following six (6) energy source forms (Note 2: The identified classification e.g., ES2, TS1, should on the body or its ability to ignite a combustible material. A worse case classification e.g. PS3, ES3.	d be with respect to its ability to cause pain or injury			
Electrically-caused injury (Clause 5): (Note: Identify type of source, list sub-assembly or circuit of classification)	designation and corresponding energy source			
Example: +5 V dc input	ES1			
Source of electrical energy	Corresponding classification (ES)			
All primary circuits and secondary circuits inside the equipment enclosure	ES3			
Output terminal	ES1			
Electrically-caused fire (Clause 6): (Note: List sub-assembly or circuit designation and corresp Example: Battery pack (maximum 85 watts):	oonding energy source classification) PS2			
Source of power or PIS Corresponding classification (PS)				
All primary circuits and secondary circuits inside theequipment enclosure	PS3, Arching PIS, Resistive PIS			
Output terminal	PS1			
Injury caused by hazardous substances (Clause 7) (Note: Specify hazardous chemicals, whether produces oz part of the component evaluation.) Example: Liquid in filled component	cone or other chemical construction not addressed as			
Source of hazardous substances	Corresponding chemical			
N/A	N/A			
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy	corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS)			
Sharp edges and corners	MS1			
Equipment mass	MS1			
Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding er location, operating temperature and contact time in Table 3 Example: Hand-held scanner – thermoplastic enclosure	nergy source classification based on type of part,			
Source of thermal energy	Corresponding classification (TS)			
Internal parts/circuits	TS1			
Accessible surfaces	TS1			
YC YC				





ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

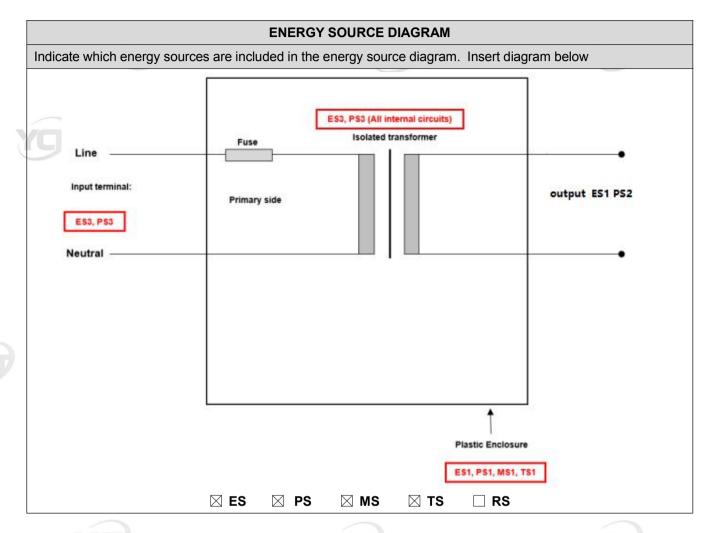
Radiation (Clause 10)

(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1

Type of radiation	Corresponding classification (RS)
N/A	N/A







OVERVIEW OF EMPLOYEDSAFEGUARDS					
Clause	Possible Hazard				
5.1	Electrically-caused injury				
Body Part	Energy Source (ES3: Primary Filter circuit)	Safeguards			
(e.g. Ordinary)		Basic	Supplementary	Reinforced (Enclosure)	
Ordinary	ES3: All primary circuits and secondary circuits inside the equipment enclosure	N/A	N/A	Enclosure, See 5.4.2, 5.4.3, 5.5.3 and 5.5.4	
6.1	Electrically-caused fire				
Material part	Energy Source	Safeguards			
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced	
All combustible materials within equipment fire enclosure	PS3: All primary circuits and secondary circuits inside the equipment enclosure	See 6.3	See 6.4.5, 6.4.6	N/A	





РСВ	PS3	See 6.3	V-1 or better	N/A
Plastic materials not part of PS3	PS3	See 6.3	V-2 or better	N/A
Enclosure	PS3	See 6.3	V-0	N/A
7.1	Injury caused by hazardous	substances		
Body Part	Energy Source		Safeguards	
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
8.1	Mechanically-caused injury			
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)
N/A	N/A	N/A	N/A	N/A
9.1	Thermal Burn			
Body Part	Energy Source	Safeguards		
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced
Ordinary	TS3: Internal parts/circuits	N/A	N/A	Enclosure
10.1	Radiation			
Body Part	Energy Source Safeguards			
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A

Supplementary Information:

(1) See attached energy source diagram for additional details.

(2) "N" - Normal Condition; "A" - Abnormal Condition; "S" Single Fault



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		Р
4.1.1			P P
4.1.1	Acceptance of materials, components and subassemblies		P
4.1.2	Use of components		Р
4.1.3	Equipment design and construction		Р
4.1.15	Markings and instructions:	(See Annex F)	Р
4.4.4	Safeguard robustness		Р
4.4.4.2	Steady force tests:	(See Annex T.4)	Р
4.4.4.3	Drop tests	(See Annex T.7)	Р
4.4.4.4	Impact tests:		N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	Ý	N/A
4.4.4.6	Glass Impact tests:)	N/A
4.4.4.7	Thermoplastic material tests:	(See Annex T.8)	Р
4.4.4.8	Air comprising a safeguard:	(See Annex T)	Р
4.4.4.9	Accessibility and safeguard effectiveness		Р
4.5	Explosion	YCY	N/A
4.6	Fixing of conductors	Conductors are connected by soldering and securely hooked inbefore soldering, and the hole through which the conductors are passed was suitably designed	Ρ
4.6.1	Fix conductors not to defeat a safeguard	YC	Р
4.6.2	10 N force test applied to:	10 N test was applied to internal components. The conductor did not break away or pivot on its terminal to the extent that CLEARANCES or CREEPAGE DISTANCES are reduced below the values specified in 5.4.2 and 5.4.3	Ρ
4.7	Equipment for direct insertion into mains socket - outlets		Р
4.7.2	Mains plug part complies with the relevant standard	The EU plug was evaluated to be complied with EN55075	Р
4.7.3	Torque (Nm):	Max. 0.008Nm	Р
4.8	Products containing coin/button cell batteries	Product does not containing coin or button cell batteries	N/A
4.8.2	Instructional safeguard		N/A





	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.8.3	Pottoni Comportment Construction		NI/A
4.0.3	Battery Compartment Construction		N/A
	Means to reduce the possibility of children removing the battery		
4.8.4	Battery Compartment Mechanical Tests:		N/A
4.8.5	Battery Accessibility		N/A
4.9	Likelihood of fire or shock due to entry of conductive object	See Annex P	Ρ
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits	Accessible parts were with ES1.	Р
5.2.2.2	Steady-state voltage and current:	See appended table 5.2	Р
5.2.2.3	Capacitance limits:	No such capacitance	N/A
5.2.2.4	Single pulse limits		N/A
5.2.2.5	Limits for repetitive pulses:		N/A
5.2.2.6	Ringing signals:		N/A
5.2.2.7	Audio signals:		N/A
5.3	Protection against electrical energy sources	See table of "overview of employedsafeguards" for details	Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons		Р
5.3.2.1	Accessibility to electrical energy sources and safeguards		Р
5.3.2.2	Contact requirements	Ve	Р
Ľ	a) Test with test probe from Annex V	No opening in the product	Р
	b) Electric strength test potential (V):		N/A
	c) Air gap (mm):		N/A
5.3.2.4	Terminals for connecting stripped wire		N/A
5.4	Insulation materials and requirements		Р
5.4.1.2	Properties of insulating material		Р
5.4.1.3	Humidity conditioning:	(See sub-clause 5.4.8)	Р
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4)	Ρ
5.4.1.5	Pollution degree:	Pollution degree 2	—
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		N/A
5.4.1.5.3	Thermal cycling	y	N/A
5.4.1.6	Insulation in transformers with varying dimensions		N/A





Clause	Requirement + Test	Result - Remark	Verdict
	YCY YC	V YC	V
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage		Р
5.4.1.9	Insulating surfaces		Р
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	Plug holder pass Ball Pressure Test	Р
5.4.1.10.2	Vicat softening temperature:		N/A
5.4.1.10.3	Ball pressure:	(See appended table 5.4.1.10.3)	Р
5.4.2	Clearances		Р
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	Р
5.4.2.3	Determining clearance using required withstand voltage	(See appended table 5.4.2.3)	Р
	a) a.c. mains transient voltage:	2500 V peak	
	b) d.c. mains transient voltage:	J	
	c) external circuit transient voltage:		
	d) transient voltage determined by measurement		
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	YC	N/A
5.4.2.5	Multiplication factors for clearances and test voltages:		N/A
5.4.3	Creepage distances:	(See appended table 5.4.3)	
5.4.3.1	General	See below	Р
5.4.3.3	Material Group	IIIb	
5.4.4	Solid insulation	Enclosure is compliance with 5.4.4.2.	Р
5.4.4.2	Minimum distance through insulation:	(See appended table 5.4.4.2)	Р
5.4.4.3	Insulation compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Cemented joints		N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material		N/A
	Number of layers (pcs)		N/A
5.4.4.6.3	Non-separable thin sheet material	YC	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	(See appended Table 5.4.9)	N/A





	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components	Combination of G.5 and G.6	P
5.4.4.9	Solid insulation at frequencies >30 kHz	(See appended Table 5.4.4.9)	P
5.4.5	Antenna terminal insulation		P
5.4.5.1	General	VA	P
5.4.5.2	Voltage surge test		P
	Insulation resistance (MΩ):	500ΜΩ	
5.4.6	Insulation of internal wire as part of supplementary safeguard:		N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning		Р
	Relative humidity (%):	93%	
	Temperature (°C)	40°C	
	Duration (h):	120h	
5.4.9	Electric strength test	(See appended table 5.4.9)	Р
5.4.9.1	Test procedure for a solid insulation type test		Р
5.4.9.2	Test procedure for routine tests		Р
5.4.10	Protection against transient voltages between external circuit		N/A
5.4.10.1	Parts and circuits separated from external circuits		N/A
5.4.10.2	Test methods	YL	N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test:		N/A
5.4.10.2.3	Steady-state test		N/A
5.4.11	Insulation between external circuits and earthed circuitry:		N/A
5.4.11.1	Exceptions to separation between external circuits and earth	YC	N/A
5.4.11.2	Requirements		N/A
	Rated operating voltage U _{op} (V):		
	Nominal voltage U _{peak} (V):		
Ń	Max increase due to variation U _{sp} :	VA	
U	Max increase due to ageing $ imes U_{sa}$:	9	
	U _{op} = U _{peak} + ×U _{sp} +×U _{sa} :		

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
			y
5.5	Components as safeguards		
5.5.1	General		P
5.5.2	Capacitors and RC units	Y capacitor complying with IEC60384-14 is used.	Р
5.5.2.1	General requirement	VA	Р
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:		N/A
5.5.3	Transformers	(See Annex G.5.3)	Р
5.5.4	Optocouplers	No Optocouplers used	N/A
5.5.5	Relays		N/A
5.5.6	Resistors		N/A
5.5.7	SPD's		N/A
5.5.7.1	Use of an SPD connected to reliable earthing		N/A
5.5.7.2	Use of an SPD between mains and protective earth		N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	(See Annex G.10.3)	N/A
5.6	Protective conductor		Р
5.6.2	Requirement for protective conductors		Р
5.6.2.1	General requirements		Р
5.6.2.2	Colour of insulation		Р
5.6.3	Requirement for protective earthing conductors	VE	Р
C	Protective earthing conductor size (mm ²):		
5.6.4	Requirement for protective bonding conductors		Р
5.6.4.1	Protective bonding conductors		Р
	Protective bonding conductor size (mm ²):		
	Protective current rating (A) :		_
5.6.4.3	Current limiting and overcurrent protective devices	YC	N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Requirement		N/A
/	Conductor size (mm ²), nominal thread diameter (mm):		N/A
5.6.5.2	Corrosion	YC	N/A
5.6.6	Resistance of the protective system		N/A
5.6.6.1	Requirements		N/A

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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
		D YC	V
5.6.6.2	Test Method Resistance (Ω):		N/A
5.6.7	Reliable earthing		N/A
5.7	Prospective touch voltage, touch current and prote	ctive conductor current	Р
5.7.2	Measuring devices and networks	Figure 4 of IEC 60990 is used indetermination of limits of ES1.	Р
5.7.2.1	Measurement of touch current:	Figure 4 of IEC 60990 is used indetermination of limits of ES1.	Р
5.7.2.2	Measurement of prospective touch voltage		Р
5.7.3	Equipment set-up, supply connections and earth connections		Ρ
	System of interconnected equipment (separate connections/single connection):	Single connection	
	Multiple connections to mains (one connection at a time/simultaneous connections)	Single connection to mains	
5.7.4	Earthed conductive accessible parts:		N/A
5.7.5	Protective conductor current		N/A
	Supply Voltage (V)		
	Measured current (mA):	YC	
	Instructional Safeguard		N/A
5.7.6	Prospective touch voltage and touch current due to external circuits		N/A
5.7.6.1	Touch current from coaxial cables		N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	No connections to external circuits	N/A
5.7.7	Summation of touch currents from external circuits	No connections to external circuits	N/A
	a) Equipment with earthed external circuits Measured current (mA):		N/A
	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):		N/A





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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
-	YEV VE			
6	ELECTRICALLY- CAUSED FIRE		Р	
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		Р	
6.2.2	Power source circuit classifications	Basic assumptions: All circuits inside the equipment fire enclosure are declared as of PS3, arcing and resistive PIS. No interconnection to building wiring. Construction details:	Ρ	
		All components and combustible materials are either rated at least V-0 or mounted on minimum V-0 materials. Equipment fire enclosure does not provide with openings.	7	
6.2.2.1	General		Р	
6.2.2.2	Power measurement for worst-case load fault:	(See appended table 6.2.2)	Р	
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	Р	
6.2.2.4	PS1	YC	N/A	
6.2.2.5	PS2	(See appended table 6.2.2)	Р	
6.2.2.6	PS3	All circuit inside enclosure is claimed as PS3	Р	
6.2.3	Classification of potential ignition sources		Р	
6.2.3.1	Arcing PIS	All circuit inside enclosure is claimed as Arcing PIS	Р	
6.2.3.2	Resistive PIS	All circuit inside enclosure is claimed as Resistive PIS	Р	
6.3	Safeguards against fire under normal operating and	abnormal operating conditions	Р	
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.4, 6.3.2, 9.0, B.2.6)	Р	
6.3.1 (b)	Combustible materials outside fire enclosure		N/A	
6.4	Safeguards against fire under single fault condition	S	Р	
6.4.1	Safeguard Method	Method of control of fire spread was applied.	Р	
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	YC	N/A	
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		N/A	

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.3.1	General		N/A
6.4.3.2	Supplementary Safeguards		N/A
a	Special conditions if conductors on printed boards are opened or peeled		N/A
6.4.3.3	Single Fault Conditions		N/A
	Special conditions for temperature limited by fuse	<u>Y</u>	N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits		N/A
6.4.5.2	Supplementary safeguards:		N/A
6.4.6	Control of fire spread in PS3 circuit		Р
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.1	General:		N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier		N/A
6.4.8	Fire enclosures and fire barriers	Equipment enclosure was evaluated for fire enclosure	Р
6.4.8.1	Fire enclosure and fire barrier material properties	YC	Р
6.4.8.2.1	Requirements for a fire barrier	No fire barrier.	N/A
6.4.8.2.2	Requirements for a fire enclosure	Fire enclosure is made of V-0class material and the availablepower of the equipment does notexceed 4000W	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	× C	Р
6.4.8.3.1	Fire enclosure and fire barrier openings	No opening on fire enclosure	Р
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions(mm)		N/A
	Needle Flame test		N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)		N/A
	Flammability tests for the bottom of a fire enclosure:		N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):		N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	V-0 enclosure used	Ρ
6.5	Internal and external wiring		N/A







Clause	Requirement + Test	Result - Remark	Verdict
6.5.1	Requirements		N/A
6.5.2	Cross-sectional area (mm ²):		
6.5.3	Requirements for interconnection to building wiring		N/A
6.6	Safeguards against fire due to connection to additional equipment	Comply with Annex Q.1	Р
	External port limited to PS2 or complies with Clause Q.1	Comply with Annex Q.1	Р

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	
7.2	Reduction of exposure to hazardous substances	N/A
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards (PPE)	N/A
	Personal safeguards and instructions	_
7.5	Use of instructional safeguards and instructions	N/A
	Instructional safeguard (ISO 7010)	—
7.6	Batteries:	N/A

8	MECHANICALLY-CAUSED INJURY		Р
8.1	General		Р
8.2	Mechanical energy source classifications	Sharp edges and corners, and equipment mass are both classified as MS1	P
8.3	Safeguards against mechanical energy sources	No safeguard is required to beinterposed between MS1 and anordinary person	Ρ
8.4	Safeguards against parts with sharp edges and corners	Accessible edges and corners ofthe equipment were rounded andare classified as MS1	Ρ
8.4.1	Safeguards		N/A
8.5	Safeguards against moving parts		N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
8.5.2	Instructional Safeguard:		_
8.5.4	Special categories of equipment comprising moving parts	YC	N/A
8.5.4.1	Large data storage equipment		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
			V
8.5.4.2	Equipment having electromechanical device for destruction of media		N/A
8.5.4.2.1	Safeguards and Safety Interlocks	(See Annex F.4 and Annex K)	N/A
8.5.4.2.2	Instructional safeguards against moving parts		N/A
9	Instructional Safeguard:	VA	_
8.5.4.2.3	Disconnection from the supply	G	N/A
8.5.4.2.4	Probe type and force (N)		N/A
8.5.5	High Pressure Lamps		N/A
8.5.5.1	Energy Source Classification		N/A
8.5.5.2	High Pressure Lamp Explosion Test	(See appended table 8.5.5.2)	N/A
8.6	Stability	Ń	Р
8.6.1	Product classification	MS1	Р
	Instructional Safeguard	MS1	_
8.6.2	Static stability		N/A
8.6.2.2	Static stability test		N/A
	Applied Force:	YC	_
8.6.2.3	Downward Force Test		N/A
8.6.3	Relocation stability test		N/A
	Unit configuration during 10° tilt:		_
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force):	YC	N/A
	Position of feet or movable parts:		
8.7	Equipment mounted to wall or ceiling		N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)		N/A
8.7.2	Direction and applied force:		N/A
8.8	Handles strength	YC	N/A
8.8.1	Classification		N/A
8.8.2	Applied Force		N/A
8.9	Wheels or casters attachment requirements		N/A
8.9.1	Classification		N/A
8.9.2	Applied force:	YC	
8.10	Carts, stands and similar carriers		N/A
8.10.1	General		N/A





Clause	Requirement + Test	Result - Remark	Verdict
8.10.2	Marking and instructions		N/A
	Instructional Safeguard:		—
8.10.3	Cart, stand or carrier loading test and compliance		N/A
	Applied force:		_
8.10.4	Cart, stand or carrier impact test	YC	N/A
8.10.5	Mechanical stability		N/A
	Applied horizontal force (N)		_
8.10.6	Thermoplastic temperature stability (°C):		N/A
8.11	Mounting means for rack mounted equipment		N/A
8.11.1	General		N/A
8.11.2	Product Classification		N/A
8.11.3	Mechanical strength test, variable N		N/A
8.11.4	Mechanical strength test 250N, including end stops		N/A
8.12	Telescoping or rod antennas		N/A
	Button/Ball diameter (mm)		

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications	All accessible surfaces areclassified as TS1.	Р
9.3	Safeguard against thermal energy sources	No safeguards are requiredbetween TS1 and ordinary person	Р
9.4	Requirements for safeguards	· ·	Р
9.4.1	Equipment safeguard		Р
9.4.2	Instructional safeguard	:	N/A

10	RADIATION		N/A
10.2	Radiation energy source classification	9	N/A
10.2.1	General classification		N/A
10.3	Protection against laser radiation		N/A
	Laser radiation that exists equipment:		_
	Normal, abnormal, single-fault:		N/A
Ľ	Instructional safeguard:	YL	_
	Tool:		
10.4	Protection against visible, infrared, and UV		N/A

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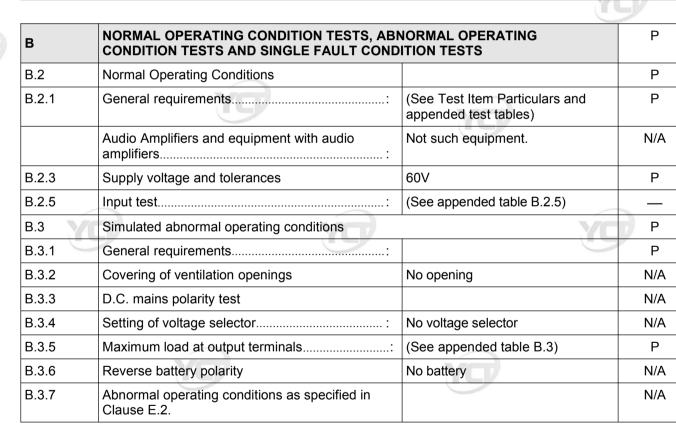
Clause	Dominement + Test	Deput Demont	\/ a mal! - f
Clause	Requirement + Test	Result - Remark	Verdict
	radiation		
10.4.1	General		N/A
10.4.1.a)	RS3 for Ordinary and instructed persons:		N/A
10.4.1.b)	RS3 accessible to a skilled person:		N/A
7	Personal safeguard (PPE) instructional safeguard:	YC	-
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1:		N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:		N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque:		N/A
10.4.1.f)	UV attenuation:		N/A
10.4.1.g)	Materials resistant to degradation UV		N/A
10.4.1.h)	Enclosure containment of optical radiation:	C	N/A
10.4.1.i)	Exempt Group under normal operating conditions:		N/A
10.4.2	Instructional safeguard:		N/A
10.5	Protection against x-radiation	VA	N/A
10.5.1	X- radiation energy source that exists equipment:		N/A
	Normal, abnormal, single fault conditions		N/A
	Equipment safeguards:		N/A
_	Instructional safeguard for skilled person:		N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation:	Y	—
	Abnormal and single-fault condition:		N/A
	Maximum radiation (pA/kg):		N/A
10.6	Protection against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification	YC)	N/A
	Acoustic output, dB(A):	G	N/A
	Output voltage, unweighted r.m.s:		N/A
10.6.4	Protection of persons		N/A
	Instructional safeguards:		N/A
Y	Equipment safeguard prevent ordinary person to RS2	YC	_
	Means to actively inform user of increase sound pressure		—







Clause	Requirement + Test	Result - Remark	Verdict
	Equipment safeguard prevent ordinary person to RS2		
10.6.5	Requirements for listening devices (headphones, earphones, etc.)		N/A
10.6.5.1	Corded passive listening devices with analog input	YO	N/A
	Input voltage with 94 dB(A) <i>L_{Aeq}acoustic</i> pressure output		—
10.6.5.2	Corded listening devices with digital input		N/A
	Maximum dB(A)		
10.6.5.3	Cordless listening device		N/A
	Maximum dB(A):		—









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Clause	Requirement + Test	Result - Remark	Verdict	
B.3.8	Safeguards functional during and after abnormal operating conditions	During an abnormal operatingcondition that does not lead to asingle fault condition, allsafeguards are remained effective. After restoration of normaloperating conditions, allsafeguards are compliance withapplicable requirements.	Ρ	
		For abnormal operating conditionleads to a consequential fault, thecompliance criteria of B.4.8 apply.		
B.4	Simulated single fault conditions		Р	
B.4.2	Temperature controlling device open or short- circuited	No Temperature controlling device used.	N/A	
B.4.3	Motor tests	No motor	N/A	
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature:		N/A	
B.4.4	Short circuit of functional insulation		Р	
B.4.4.1	Short circuit of clearances for functional insulation	Clearances for functional insulationthat are not evaluated for basicinsulation or relevant electricstrength test are short- circuited inturn	Ρ	
B.4.4.2	Short circuit of creepage distances for functional insulation	Creepage distances for functional insulation that are not evaluated for basic insulation or relevant electric strength test are shortcircuitin turn	P	
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards.	N/A	
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors		Ρ	
B.4.6	Short circuit or disconnect of passive components		Р	
B.4.7	Continuous operation of components	<u>i</u>	N/A	
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	During and after a single faultcondition, a class 1 or class 2energy sources did not become aclass 3 energy source.	Р	
Y		For a class 3 energy source, during and after a single faultcondition, at least one safeguardcontinued to comply with therelevant safeguard requirements.		
B.4.9	Battery charging under single fault conditions:		N/A	





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Clause	Requirement + Test	Result - Remark	Verdict
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		N/A
C.1.2	Requirements		N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test	G	N/A
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure apparatus		N/A
C.2.4	Xenon-arc light exposure apparatus		N/A
D	TEST GENERATORS		Р
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		Р
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	N/A
E.1	Audio amplifier normal operating conditions	Equipment does not contain anyaudio amplifiers	N/A
	Audio signal voltage (V):		_
	Rated load impedance (Ω):		
E.2	Audio amplifier abnormal operating conditions		N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General requirements		Р
	Instructions – Language:	English	_
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are compliance with IEC60027-1	Р
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	Graphic symbols are compliance with IEC 60417 or ISO 3864-2 or ISO 7000	Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	Equipment marking is located onits exterior surface and is readilyvisible	Р
F.3.2	Equipment identification markings		Р
F.3.2.1	Manufacturer identification:	See copy marking plate	—
F.3.2.2	Model identification	See page 2	_





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Clause	Requirement + Test	Result - Remark	Verdic	
F.3.3	Equipment rating markings		Р	
F.3.3.1	Equipment with direct connection to mains			
F.3.3.2	Equipment without direct connection to mains		N/A	
F.3.3.3	Nature of supply voltage			
F.3.3.4	Rated voltage	250Vac		
F.3.3.4	Rated frequency	50/60Hz		
F.3.3.6	Rated current or rated power:			
F.3.3.7	Equipment with multiple supply connections	No multiple supply connections	N/A	
F.3.4	Voltage setting device	No voltage setting device	N/A P	
F.3.5	Terminals and operating devices	See below.	-	
F.3.5.1	Mains appliance outlet and socket-outlet markings	No mains appliance outlet andsocket-outlet	N/A	
F.3.5.2	Switch position identification marking	No switches	N/A	
F.3.5.3	Replacement fuse identification and rating markings	Fusing Resistor used, marking provided on PCB: FR1 4.7ohm/1W	Ρ	
F.3.5.4	Replacement battery identification marking:		N/A	
F.3.5.5	Terminal marking location		N/A	
F.3.6	Equipment markings related to equipment classification		Ρ	
F.3.6.1	Class I Equipment		Р	
F.3.6.1.1	Protective earthing conductor terminal		Р	
F.3.6.1.2	Neutral conductor terminal		Р	
F.3.6.1.3	Protective bonding conductor terminals		Р	
F.3.6.2	Class II equipment (IEC60417-5172)		N/A	
F.3.6.2.1	Class II equipment with or without functional earth	Without functional earth	N/A	
F.3.6.2.2	Class II equipment with functional earth terminal marking		N/A	
F.3.7	Equipment IP rating marking:	Equipment is not intended for otherthan IPX0.	_	
F.3.8	External power supply output marking		Р	
F.3.9	Durability, legibility and permanence of marking	Marking label is tested in appliance	Р	
F.3.10	Test for permanence of markings	After the test, the marking remains legible.	Ρ	
F.4	Instructions	YCY	Р	





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Clause	Requirement + Test	Result - Remark	Verdict
	a) Equipment for use in locations where children not likely to be present - marking	The accessibility of equipment is evaluated using the test probe of Figure V.1	N/A
	b) Instructions given for installation or initial use		Р
Gy	c) Equipment intended to be fastened in place		N/A
	d) Equipment intended for use only in restricted access area	YC	N/A
	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1		N/A
	f) Protective earthing employed as safeguard		N/A
	g) Protective earthing conductor current exceeding ES 2 limits	Ń	N/A
	h) Symbols used on equipment		N/A
	i) Permanently connected equipment not provided with all-pole mains switch		N/A
i)	j) Replaceable components or modules providing safeguard function		N/A
F.5	Instructional safeguards	YC	N/A
	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	No instructional safeguard is referenced in this test report.	N/A
G	COMPONENTS	-	Р
G.1	Switches	Ve	N/A
G.1.1	General requirements	No switches	N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.2	Relays	1	N/A
G.2.1	General requirements	No relays	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supply power	VA	N/A
G.2.4	Mains relay, modified as stated in G.2		N/A
G.3	Protection Devices		Р
G.3.1	Thermal cut-offs	No thermal cut-offs	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	No thermal links	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	YC	N/A
G.3.1.2	Thermal cut-off connections maintained and secure		N/A





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Clause	Requirement + Test	Result - Remark	Verdict
G.3.2	Thermal links		N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691		N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A
0.0.2.10)	Aging hours (H)		
	Single Fault Condition		
	Test Voltage (V) and Insulation Resistance (Ω):	G	
G.3.3	PTC Thermistors	No PTC thermistors	N/A
G.3.4	Overcurrent protection devices	Approved Fusing Resistors used	
G.3.5	Safeguards components not mentioned in G.3.1 to		P
G.3.5.1	Non-resettable devices suitably rated and marking provided		P
G.3.5.2	Single faults conditions:	(See appended Table B.4)	Р
G.4	Connectors		Р
G.4.1	Spacings		N/A
G.4.2	Mains connector configuration:		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	YC	Р
G.5	Wound Components		Р
G.5.1	Wire insulation in wound components	(See Annex J)	Р
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°		Р
G.5.1.2 b)	Construction subject to routine testing	YC	Р
G.5.2	Endurance test on wound components		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Time (s):		—
	Temperature (°C):		
G.5.2.3	Wound Components supplied by mains		N/A
G.5.3	Transformers		Р
G.5.3.1	Requirements applied (IEC61204-7, IEC61558- 1/-2, and/or IEC62368-1)	The isolation transformer meetsthe requirements given in Annexes G.5.3.2	Ρ
V	Position:	Isolation transformer	_
U	Method of protection:	Triple insulated wire used	
G.5.3.2	Insulation		P





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Clause	Requirement + Test	Result - Remark	Verdict	
9	Protection from displacement of windings	The insulation in transformersfulfils requirements of Clause 5and passes the relevant electricstrength tests, according to the application of the insulation in the equipment.	-	
G.5.3.3	Overload test:	YC	N/A	
G.5.3.3.1	Test conditions		N/A	
G.5.3.3.2	Winding Temperatures testing in the unit		N/A	
G.5.3.3.3	Winding Temperatures - Alternative test method		N/A	
G.5.4	Motors		N/A	
G.5.4.1	General requirements		N/A	
	Position:			
G.5.4.2	Test conditions		N/A	
G.5.4.3	Running overload test		N/A	
G.5.4.4	Locked-rotor overload test		N/A	
	Test duration (days):			
G.5.4.5	Running overload test for d.c. motors in secondary circuits	YC	N/A	
G.5.4.5.2	Tested in the unit		N/A	
	Electric strength test (V):			
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)		N/A	
C	Electric strength test (V)			
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits		N/A	
G.5.4.6.2	Tested in the unit		N/A	
	Maximum Temperature		N/A	
	Electric strength test (V)		N/A	
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)		N/A	
	Electric strength test (V)		N/A	
G.5.4.7	Motors with capacitors		N/A	
G.5.4.8	Three-phase motors		N/A	
G.5.4.9	Series motors	YC	N/A	
	Operating voltage			
G.6	Wire Insulation		Р	





Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + rest	Result - Kemark	Veruici
G.6.1	General	Approved triple insulated wire used as secondary winding of T1	Р
G.6.2	Solvent-based enamel wiring insulation		N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements		N/A
	Туре		
	Rated current (A)		
	Cross-sectional area (mm ²), (AWG):		
G.7.2	Compliance and test method		N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N):		
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		_
G.7.3.2.4	Strain relief comprised of polymeric material		N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Mass (g):		—
U	Diameter (m):		_
	Temperature (°C):		_
G.7.6	Supply wiring space		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Test with 8 mm strand		N/A
G.8	Varistors	YC	N/A
G.8.1	General requirements	No such component	N/A
G.8.2	Safeguard against shock		N/A
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test:		N/A
G.8.3.3	Temporary overvoltage	VA	N/A
G.9	Integrated Circuit (IC) Current Limiters	9	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
004 h)			
G.9.1 b)	Limiters do not have manual operator or reset		N/A
G.9.1 c)	Supply source does not exceed 250 VA		
G.9.1 d)	IC limiter output current (max. 5A)		
G.9.1 e)	Manufacturers' defined drift:		—
G.9.2	Test Program 1		N/A
G.9.3	Test Program 2		N/A
G.9.4	Test Program 3		N/A
G.10	Resistors		N/A
G.10.1	General requirements		N/A
G.10.2	Resistor test		N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	N. C.	N/A
G.10.3.1	General requirements		N/A
G.10.3.2	Voltage surge test		N/A
G.10.3.3	Impulse test		N/A
G.11	Capacitor and RC units	YC	Р
G.11.1	General requirements		Р
G.11.2	Conditioning of capacitors and RC units	Capacitors used are compliant for IEC 60384-14:2005, with the minimum duration of damp heat,steady-state test of 21 days at 40°C±2 °C and a RH of 93%±3%.	Р
G.11.3	Rules for selecting capacitors	One Y1 Capacitor provided	N/A
G.12	Optocouplers		N/A
	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	No Optocouplers used	N/A
	Type test voltage Vini:		
	Routine test voltage, Vini,b:		
G.13	Printed boards		Р
G.13.1	General requirements		Р
G.13.2	Uncoated printed boards	The insulation between conductorson the outer surfaces of an uncoated printed board is compliant with the minimum requirements of clearances (5.4.2) and creepage distances (5.4.3).	Р





	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdic
0.40.0	October of printed because		
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
	Compliance with cemented joint requirements (Specify construction)		-
G.13.5	Insulation between conductors on different surfaces	YC	N/A
	Distance through insulation:		N/A
	Number of insulation layers (pcs):		
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2a)	Thermal conditioning	V	N/A
G.13.6.2b)	Electric strength test		N/A
G.13.6.2c)	Abrasion resistance test		N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements		N/A
G.15	Liquid filled components	YC)	
G.15.1	General requirements		N/A
G.15.2	Requirements		N/A
G.15.3	Compliance and test methods		N/A
G.15.3.1	Hydrostatic pressure test	/	N/A
G.15.3.2	Creep resistance test	YC	N/A
G.15.3.3	Tubing and fittings compatibility test		N/A
G.15.3.4	Vibration test		N/A
G.15.3.5	Thermal cycling test		N/A
G.15.3.6	Force test		N/A
G.15.4	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	YCY	N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours		N/A
כ)	Impulse test using circuit 2 with Uc = to transient voltage		N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	YC	N/A
C2)	Test voltage:		

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdic
		YC	V
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer		N/A
D2)	Capacitance:		—
D3)	Resistance:		_
н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General		N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz)	/	
H.3.1.2	Voltage (V)		
H.3.1.3	Cadence; time (s) and voltage (V):		
H.3.1.4	Single fault current (mA):		
H.3.2	Tripping device and monitoring voltage:		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	YC	N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)		_
J	INSULATED WINDING WIRES FOR USE WITHOUT	INTERLEAVED INSULATION	Р
Ń	General requirements		Р
к	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
K.2	Components of safety interlock safeguard mechanism		N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method:		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):		N/A





	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
1470			
K.7.2	Overload test, Current (A)		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test:		N/A
L	DISCONNECT DEVICES		Р
L.1	General requirements	Mains Plug as disconnectdevice	P
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		P
L.4	Single phase equipment		P
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
М	EQUIPMENT CONTAINING BATTERIES AND TH	EIR PROTECTION CIRCUITS	N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Requirements		N/A
M.2.2	Compliance and test method (identify method):		N/A
M.3	Protection circuits		N/A
M.3.1	Requirements		N/A
M.3.2	Tests		N/A
	- Overcharging of a rechargeable battery		N/A
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		N/A
M.3.3	Compliance		N/A
M.4	Additional safeguards for equipment containing secondary lithium battery		N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Charging operating limits		N/A
M.4.2.2a)	Charging voltage, current and temperature:		
M.4.2.2 b)	Single faults in charging circuitry:		_
M.4.3	Fire Enclosure		N/A





IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
M.4.4	Endurance of equipment containing a secondary lithium battery		N/A	
M.4.4.2	Preparation		N/A	
M.4.4.3	Drop and charge/discharge function tests		N/A	
	Drop		N/A	
	Charge		N/A	
	Discharge		N/A	
M.4.4.4	Charge-discharge cycle test		N/A	
M.4.4.5	Result of charge-discharge cycle test		N/A	
M.5	Risk of burn due to short circuit during carrying		N/A	
M.5.1	Requirement		N/A	
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A	
M.6	Prevention of short circuits and protection from other effects of electric current		N/A	
M.6.1	Short circuits		N/A	
M.6.1.1	General requirements		N/A	
M.6.1.2	Test method to simulate an internal fault		N/A	
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)		N/A	
M.6.2	Leakage current (mA):		N/A	
M.7	Risk of explosion from lead acid and NiCd batteries		N/A	
M.7.1	Ventilation preventing explosive gas concentration		N/A	
M.7.2	Compliance and test method		N/A	
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A	
M.8.1	General requirements		N/A	
M.8.2	Test method		N/A	
M.8.2.1	General requirements		N/A	
M.8.2.2	Estimation of hypothetical volume Vz (m ³ /s):			
M.8.2.3	Correction factors			
M.8.2.4	Calculation of distance <i>d</i> (mm):			
M.9	Preventing electrolyte spillage		N/A	
M.9.1	Protection from electrolyte spillage		N/A	
M.9.2	Tray for preventing electrolyte spillage		N/A	







	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)		N/A
N	ELECTROCHEMICAL POTENTIALS	1	N/A
	Metal(s) used:		
0	MEASUREMENT OF CREEPAGE DISTANCES A		Р
	Figures O.1 to O.20 of this Annex applied:	Pollution degree considered	
Ρ	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	Р
P.1	General requirements		Р
P.2.2	Safeguards against entry of foreign object	Equipment enclosure does notprovide with any openings.	P
	Location and Dimensions (mm):		
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts		N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard) :		N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness		N/A
P.4	Metallized coatings and adhesive securing parts		N/A
P.4.2 a)	Conditioning testing		N/A
	Tc (°C)		
	Tr (°C):		
	Ta (°C):		
P.4.2 b)	Abrasion testing:	(See G.13.6.2)	N/A
P.4.2 c)	Mechanical strength testing:	(See Annex T)	N/A
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	Р
Q.1	Limited power sources		Р
Q.1.1 a)	Inherently limited output		N/A





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Clause	Requirement + Test	Result - Remark	Verdict
Q.1.1 b)	Impedance limited output		Р
	- Regulating network limited output under normal operating and simulated single fault condition	(See table annex Q.1)	Р
Q.1.1 c)	Overcurrent protective device limited output		N/A
Q.1.1 d)	IC current limiter complying with G.9		N/A
Q.1.2	Compliance and test method		Р
Q.2	Test for external circuits – paired conductor cable		N/A
	Maximum output current (A):		
	Current limiting method		_
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General requirements		N/A
R.2	Determination of the overcurrent protective device and circuit		N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).		N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	Pre-selection of material is used - all combustible materials are separately evaluated for the required resistance to heat and fire.	N/A
	Samples, material		
	Wall thickness (mm)		
	Conditioning (°C):		
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material		
	Wall thickness (mm)		
	Conditioning (°C)		
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
_	YEV		
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material		
	Wall thickness (mm):		
	Cheesecloth did not ignite		N/A
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material		
	Wall thickness (mm)		
	Conditioning (test condition), (°C):		
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A
	After every test specimen was not consumed completely		N/A
	After fifth flame application, flame extinguished within 1 min		N/A
т	MECHANICAL STRENGTH TESTS		Р
T.1	General requirements		P
Т.2	Steady force test, 10 N	(See appended table T.2)	Р
Т.3	Steady force test, 30 N		N/A
Т.4	Steady force test, 100 N	(See appended table T.4)	Р
T.5	Steady force test, 250 N		N/A
Т.6	Enclosure impact test		N/A
	Fall test		N/A
	Swing test		N/A
Т.7	Drop test:	(See appended table T.7)	Р
Т.8	Stress relief test:	(See appended table T.8)	Р
Т.9	Impact Test (glass)		N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A
	Impact energy (J):		
	Height (m)		







	IEC 02300-1		
Clause	Requirement + Test	Result - Remark	Verdict
			17
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm):		
U	MECHANICAL STRENGTH OF CATHODE RAY T AGAINST THE EFECTS OF IMPLOSION	UBES (CRT) AND PROTECTION	N/A
U.1	General requirements		N/A
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A
U.3	Protective Screen		N/A
V	DETERMINATION OF ACCESSIBLE PARTS (FIN	GERS, PROBES AND WEDGES)	Р
V.1	Accessible parts of equipment		Р
	Accessible part criterion		Р

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IEC 62368-1:2018					
Clause	Requirement + Test	Result - Remark	Verdict		

4.1.2	TAB	LE: List of critical com	ponents			P
Object / part No.		Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Internal line N,PE)		DONGGUAN WENCHANG ELECTRONIC CO LTD	1007	22 AWG		UL E214500
Fuse		XC Electronics (ShenZhen) Corp.,Ltd.	DIP	3F2A/250V		UL E249609
РСВ		DONG GUAN CITY XINXIONG ELECTRONICS CO LTD	XX-2	94V-0	1	UL E30222
Transform	mer	DONGGUANSUNXI YUPINELECTRONIC ECHNOLOGY CO.LTD	EE1610 (5+5)	09mH±10%	1	UL E41429
Inductance L1 SHENZHEN GREAT CO., LTD		5*10MM	680UH±12%	1	/	

Supplementary information:

¹⁾ Provided evidence ensures the agreed level of compliance.

²⁾ Description line content is optional. Main line description needs to clearly detail the component used for testing







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		IEC 6236	8-1:2018		
Clause	YC	Requirement + Test	Result - Remark	Verdict	
4.8.4, 4.8.5	TABLE: L	ithium coin/button cell batterie	s mechanical tests	N/A	
(The follow	ing mechanica	al tests are conducted in the seque	ence noted.)		
4.8.4.2	TABLE: St	ress Relief test			
Part Material		Material	Oven Temperature (°C)	Comments	
		_			
4.8.4.3	TABLE: Ba	attery replacement test			
Battery par	rt no			—	
Battery Installation/withdrawal		Irawal	Battery Installation/Removal Cycle	Comments	
			1		
			10	YC	
.8.4.4	TABLE: Dro	E: Drop test			
Impact Area		Drop Distance	Drop No.	Observations	
_		-	1		
_		- 19	2		
_			3		
4.8.4.5	TABLE: Im	pact			
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments	
1,					
	Y				
4.8.4.6	TABLE: Cr	ush test			
Test position		Surface tested	Crushing Force (N)	Duration force applied (s)	
		YY -	YCY		
Supplemen	tary information	on:			













		IEC 6236	8-1:2018				
Clause	nuse Requirement + Test Result - Remark						
405	9						
4.8.5	14	BLE: Lithium coin/button cell	BLE: Lithium coin/button cell batteries mechanical test result N/A				
Test p	osition	Surface tested	Force (N)	Duration force applied (s)			
YGy-	-						
		YE	YCY				
Supplementa	ary informatio	n:					

5.2	Table: Cl	assification of e	electrical energy s	ources			Р
5.2.2.2	- Steady State	Voltage and Cur	rent conditions				
	Supply	Location (e.g.		F	Parameters		
No.	o. Voltage circuit designation)	circuit	Test conditions	U (Vrms or Vpk)	l (Apk or Arms)	Hz	ES Class
1	275V/60Hz Output connector (+)		Normal	60		AC	
	to (-)		Output overload	60		AC	ES2
		Single fault: R5 SC		YC			
	275V/60Hz	All primary circuits	Normal				
			Abnormal				
	YC		Single fault: SC/OC	9-			9
2	275V/60Hz	Output	Normal				
		connector (+) to Earth	Output overload				
			Single fault: R5 SC				
		YC	Single fault: R7 SC		YC		ES1
			Single fault: U1 pin 4-2 SC		_		
			Single fault: U1 pin 4-6 SC				



275V/60Hz

5.2.2.3 - Capacitance Limits

circuit

circuit

Supply

Voltage

5.2.2.4 - Single Pulses

Supply

Voltage

Clause

3

No.

No.



Verdict

ES1

ES Class

ES Class

60

60

60

60

60

60

Upk (V)

--

__

lpk (mA)

Page 42 of 71 -IEC 62368-1:2018 Requirement + Test Result - Remark Output Normal 0.188mApk connector (-) to Earth Output overload 0.185mApk ___ Single fault: R5 0.187mApk ___ SC Single fault: R7 0.186mApk SC Single fault: U1 0.181mApk pin 1-3 SC Single fault: U1 0.182mApk ___ pin 4-6 SC Location (e.g. Parameters Test conditions Capacitance, nF designation) Normal --Abnormal ___ Single fault -___ SC/OC Location (e.g. Parameters Test conditions Duration (ms) Upk (V) designation) Normal ___ Abnormal ___ --

5.2.2.5 - Repetitive Pulses

	Supply	Location (e.g.	-				
No.	Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class
			Normal				
			Abnormal				
	YC		Single fault – SC/OC	-		T YO	

__

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Single fault -

SC/OC







	IEC	62368-1:2018		
Clause	Requirement + Test	VA	Result - Remark	Verdict
Test Condition	ons:			
	Normal –			
	Abnormal -			
Supplementa	ary information:			

SC=Short Circuit, OC=Opened Circuit, @=Fuse opened, *=Unit shut down, #=U1 damage.

Test voltage: 275V, 60Hz

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature mea	isureme	ents						Р
	Supply voltage (V)	60V/	50Hz	60V/5	50Hz				_
	Ambient T _{min} (°C)	-						Ý	
	Ambient T _{max} (°C)	-							
	Tma (°C)	See	below	See b	elow	Se	e below	See below	_
Maximum mea part/at:	sured temperature T of			1	T (°C)			Allowed T _{max} (°C)
At room tempe	rature Shift to 45°C					Y		ľ	
Position		Horiz	zontal	Shift 4	45°C	Ho	rizontal	Shift 45°C	
Inside plug holder		56.8		76	.8				105
C4 body		29.7		49.7					105
R8 body		33.4		53.4					130
PCB near DB1		32.5		52.5				-0	130
PCB near U1		35.9		55.9					130
CY1 body		36.4		56	.4				125
T1 core		34.8		54.8					110
T1 coil		45.6		65.6			-		110
C3 body	YC	37	7.5	57.5		/[105
Inside enclosur	re near T1	48	3.7	68	.7				105
Outside enclos	ure near T1	3′	1.5						105
Ambient		25	5.0	45	.0				
Supplementary	information:								
Temperature T	of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R2 (Ω	2)	T (°C)	Allowed T _{max} (°C)	Insulation class



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Clause	YC	Requirement + Test	VA	Result - Remark	Verdict		

Supplementary information:

Note 1: Tma should be considered as directed by applicable requirement.

5.4.1.10.2	2 TABLE: Vicat softening temperature of thermoplastics				
Penetration	(mm):				
Object/ Part No./Material		Manufacturer/t rademark	t T softening (°C)		
supplementa	ary information:		Ý		

5.4.1.8	Table: working voltage measurement			Р	
Location		RMS voltage (V)	Peak voltage (V)	Comm	ents
T1 Pin1-A		224	442		
T1 Pin2-A		230	486		
T1 Pin3-A		223	482		
T1 Pin4-A		261	566	Max. V	peak
T1 Pin1-B		226	488		
T1 Pin2-B		226	482	/	
T1 Pin3-B		226	442		57
T1 Pin4-B		269	515	Max. V	/rms
CY1 Primary to	secondary	226	480		

5.4.1.10.3	TABLE: Ball pre	TABLE: Ball pressure test of thermoplastics				
Allowed impression diameter (mm)		≤ 2 mm				
Object/Part No./Material Manufacturer/trademark		Test temperature (°C)	Impression dia	meter (mm)		
D		COVESTRO DEUTSCHLAND AG [PC RESINS]	125	0.9		
Supplementary information: After the test, dimension d (diameter of the indentation) did not exceed 2 mm.						

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IEC 62368-1:2018 Verdict Clause Requirement + Test Result - Remark 5.4.2.2. Р **TABLE: Minimum Clearances/Creepage distance** 5.4.2.4 and 5.4.3 Required³ Clearance (cl) and creepage Up U r.m.s. Frequency Required cl cr distance (cr) at/of/between: (kHz)¹ cl (mm) (V) $(mm)^2$ cr (mm) (V) (mm) Primary trace of different polarity 440 60Hz 1.5 250 5.8 2.4 5.8 before FR1 (BI) Primary trace under FR1 (BI) 440 250 60Hz 1.5 5.7 2.4 5.7 454 250 Primary trace to secondary trace 60Hz 3.0 6.8 4.8 6.8 under CY1 (RI) Primary trace to secondary trace 478 250 60.8kHz 7.0 5.0 7.0 3.0 under T1 (RI) 7.2 7.2 Primary winding to secondary pins 478 265 60.8kHz 3.0 5.0 of T1 (RI) 478 265 60.8kHz 3.0 9.1 9.1 Core to secondary pins of T1 (RI) 5.0 Primary winding of T1 to secondary 478 265 60.8kHz 3.0 7.3 5.0 7.5 component t (RI)

Supplementary information:

1. Material Group: IIIb

2. Unless otherwise specified, the worst conditions of Cl. & Cr. In above mentioned locations have been considered and listed.

3. Transformer (T1) triple insulated wire used in secondary windings, core is considerd as primary part. The insulation between secondary to core is reinforced insulation.

5.4.2.3 TABI	LE: Minimum Cleara	inces distances using r	equired withstand	voltage	P
Over	voltage Category (C)V) :			I
Pollu	Pollution Degree:				
Clearance distanced between:		Required withstand voltage	Required cl (mm)	Mea	asured cl (mm)
Primary to secondary and accessible part		2500 Vpeak	3.0		and 5.4.3 for
Primary trace of different polarity before FR1		2500 Vpeak	1.5	Refer to table 5.4.2.2, 5.4.2.4 and 5.4.3 for details	

Supplementary information:

FAX



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Clause	YC	Requirement + Test	VA	Result - Remark	Verdict	

5.4.2.4	TABLE: Clearances based on electric strength test				
Test voltage applied between:		Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdown Yes / No	

Supplementary information:

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE	ABLE: Distance through insulation measurements				
Distance the insulation di		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
Plastic encl	osure	578	60.8kHz	COVESTRO DEUTSCHLAND AG [PC RESINS] Type: FR6005 + (z)	0.4	1.5

Supplementary information:









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IEC 62368-1:2018 Clause Requirement + Test **Result - Remark** Verdict 5.4.9 **TABLE: Electric strength tests** Ρ Voltage shape Breakdown Test voltage applied between: Test voltage (V) (AC, DC) Yes / No Functional: ___ ___ Basic/supplementary: Mains poles (Fusing Resistor opened) DC 2500 No ___ ___ ___ Reinforced: L/N to output terminal DC 4000V No L/N to plastic enclosure with metal foil DC 4000V No DC 4000V T1: Primary to Secondary No T1: Core to Secondary DC 4000V No From Enclosure inside to Enclosure outside DC 4000V No Routine Tests: ___ ----___ ___ ___ ___ ---Supplementary information: 1. Core of transformers T1 is considered as primary part.

2. Above test performed immediately after the humidity test.

3. All materials listed in table 4.1.2 are tested.

4. For the unit, test performed immediately following temperature test in 5.4.1.4

5.5.2.2	TABLE: Stored discharge on capacitors					N/A	
Supply Volt	age (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Clas	sification
-	-	-					
-	-						







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IEC 62368-1:2018							
Clause	Requirement + Test	VA	Result - Remark	Verdict			
	9						
Supplement	Supplementary information:						
X-capacitors	s installed for testing are:						
D bleeding	g resistor rating:						
🗆 ICX:							
Notes:			Ve				
A. Test Location:							
Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth							
B. Operating condition abbreviations:							
N – Normal	N – Normal operating condition (e.g., normal operation, or open fuse); S –Single fault condition						

Voltage drop Resistance
(V) (Ω)
3.2 0.01
-

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive part	YC	N/A
Supply volta	age:		
Location		Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)
		1	9
Supplemen	tary Information:		

Notes:

[1] Supply voltage is the anticipated maximum Touch Voltage

[2] Earthed neutral conductor [Voltage differences less than 1% or more]

[3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3

[4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.

[5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.







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		IEC 62368-1:2018	
Clause	Requirement + Test	Result - Remark	Verdict

6.2.2 T	able: Electrical po	wer sources (PS)) measurements for	classification	Р
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification
Output		Power (W) :	79200	82800	
connector +	Normal Operation	V _A (V) :	660	660	PS2
to -		I _A (A) :	120	120	
Output		Power (W) :	0		
connector +	R5 shorted	V _A (V) :	0		PS1
to -		I _A (A) :	0		YO
Output		Power (W) :	0		9
connector +	R7 shorted	V _A (V) :	0		PS1
to -		I _A (A) :	0		
Output		Power (W) :	0		
connector +	U1 pin 4-2 shorted	V _A (V) :	0	YY-	PS1
to -		I _A (A) :	0		
Output		Power (W) :	0		
connector +	U1 pin 4- 6shorted	V _A (V) :	0		PS1
to VC		I _A (A) :	0		YC

Supplementary Information:

(*) Measurement taken only when limits at 3 seconds exceed PS1 limits

6.2.3.1	Table: Determinati	on of Potential Ign	ition Sources (Arc	ing PIS)		Р		
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})		ing PIS? es / No		
. ,	circuits and circuits inside the enclosure	* * *		*	Yes (decla	aration)		
Supplementary information: An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage (V _p) and normal operating condition rms current (I _{rms}) is greater than 15. * An Arcing PIS is considered to exist in primary circuits and secondary circuits.								







			IEC 62368-1:2	018		
Clause	YC	Requirement + Te	st	Res	ult - Remark	Verdict
6.2.3.2	Table: Det	ermination of Potent	ial Ignition Sou	irces (Resistive	PIS)	Р
Circuit Loc	cation (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No
All primary secondary of inside the e enclosure		÷	*	*	×	Yes (declaration)
A combinati		tion: ter, VA and ammeter liver and ammeter are used				

If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.

A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, <u>or</u> (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

* A Resistive PIS is considered to exist in primary circuits and secondary circuits.

8.5.5	TABLE: High Pressure Lamp			N/A
Description		Values	Energy Source C	assification
Lamp type	:		—	
Manufacture	r:		—	
Cat no			—	
Pressure (co	old) (MPa):		MS_	
Pressure (or	perating) (MPa):		MS_	
Operating tir	ne (minutes):		—	
Explosion m	ethod:		—	
Max particle	length escaping enclosure (mm). :		MS_	
Max particle	length beyond 1 m (mm):	y	MS_	
Overall resu	lt:			
Supplement	ary information:			







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		I	EC 62368-1:	2018			
YO	Requiren	nent + Tes	t 🚽		Result -	Remark	Verdict
	nut test						P
I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	l fuse (A)	Condition	
Hz 120		79200		FR1	120	Output:660-690\	/ac, 120A.
Hz 120		82800		FR1	120		
may be have	e rated curren	it or rated	power or both	. Both shoul	ld be mea	asured	9
	Y	9			YG		
9			YC			Y	
	Y						
9			YC			Y	
	Hz 120 Hz 120 Hz 120 tary informat	TABLE: Input test I (A) I rated (A) Hz 120 Hz 120 <	Requirement + TesTABLE: Input testI (A)I rated (A)P (W)Hz12079200Hz12082800Hzinformation:	Requirement + Test TABLE: Input test I (A) I rated (A) P (W) P rated (W) Hz 120 79200 Hz 120 82800 Hz information: Kate Kate Kate Kate	Requirement + Test TABLE: Input test I (A) I rated (A) P (W) P rated (W) Fuse No Hz 120 79200 FR1 Hz 120 82800 FR1 Hz 120 82800 FR1	Requirement + Test Result - TABLE: Input test I (A) I rated (A) P (W) P rated (W) Fuse No I fuse (A) Hz 120 79200 FR1 120 Hz 120 82800 FR1 120 Hz 120 82800 FR1 120	Requirement + Test Result - Remark TABLE: Input test I (A) I rated (A) P (W) P rated (W) Fuse No I fuse (A) Condition Hz 120 79200 FR1 120 Output:660-690V Hz 120 82800 FR1 120







IEC 62368-1:2018

Clause	Requirement + Test	Result - Remark	Verdict

B.3	TAB	LE: Abnorm	al operating	condition t	ests						Р
Ambient ten	npera	ture (°C)				:	See b	elow			
Power source	ce for	EUT: Manuf	acturer, model	/type, outpu	it rating	:					_
Component	t No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fu currer		T-couple	Temp. (°C)	Obs	servation
Output		Overload	264V/60Hz	4hrs	FR1	0.205	5 max	T1 coil	79.6	Unit	
			4	45mins	ns		-	T1 core	76.9	shutdown at output 3.4A,	
								Ambient	25.0	No d	lamaged, azards.
										0.16 , Sec	•

Supplementary information:

Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

B.4 TA	BLE: Fault co	ondition tests							Р
Ambient temper	ature (°C)				:				_
Power source for	ower source for EUT: Manufacturer, model/type, output rating:							// -	
Component No	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fu currer		T-couple	Temp. (°C)	Observation
DB1 pin +/-	shorted	275V/60Hz	1s	FR1	()			After short circuit, unit shut down immediately. No damage, no hazard.







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			IEC 623	68-1:20 <i>′</i>	18			
Clause	Requirement +	Test		Ý	Result - Re	mark		Verdict
	9			C			_	
C1	shorted	275V/60Hz	1s	FR1	0			After short circuit, unit shut down immediately. No damage, no hazard.
T1 pin 1-2	shorted	275V/60Hz	10mins	FR1	0.006			After short circuit, unit shut down immediately. No damage, no hazard.
T1 pin 4-3	shorted	275V/60Hz	10mins	FR1	0.008			After short circuit, unit shut down immediately. No damage, no hazard.
T1 pin A-B	3 shorted	275V/60Hz	10mins	FR1	0.008			After short circuit, unit shut down immediately. No damage, no hazard.
U1 pin 4-2	shorted	275V/60Hz	10mins	FR1	0			After short circuit, unit shut down immediately. No damage, no hazard.
U1 pin 4-6	shorted	275V/60Hz	10mins	FR1	0			After short circuit, unit shut down immediately. No damage, no hazard.
U1 pin 1-2	shorted	275V/60Hz	10mins	FR1	0			After short circuit, unit shut down immediately. No damage, no hazard.





			IEC 623	68-1:20	18			
Clause	YC	Requirement +	Test	Ý	R	esult - Rem	ark	Verdict
R5	shorted	275V/60Hz	1s	FR1	0			After short circuit, unit shut down immediately. No damage, no hazard.
C4	shorted	275V/60Hz	10mins	FR1	0.008			After short circuit, unit shut down immediately. No damage, no hazard.
Output	shorted	275V/60Hz	10mins	FR1	0.009			After short circuit, unit shut down immediately. No damage, no hazard.

Supplementary information:

The room ambient temperature is 20 to 25°C.

After Fusing Resistors opened condition, same result came out for each source of Fusing Resistors used and the Fusing Resistors does not Cracked.

Annex M	TABLE: Batt	eries							N/A
The tests of	Annex M are	applicable	only when app	propriate b	attery data	i is not ava	ailable	Yc	- 6
Is it possible	to install the	battery in a	reverse polar	ity position	ı?	:		0	
	Non-re	echargeable	e batteries		F	Rechargea	ble batterie	es	
	Disch	arging	Un-	Cha	rging	Disch	arging	Reverse	d charging
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during norma condition		YC)				Ø			
Max. current during fault condition									
Test results:									Verdict
- Chemical le	eaks			YC					
- Explosion c	of the battery								
							•		

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	IEC 62	2368-1:2018		
Clause	Requirement + Test	va	Result - Remark	Verdict
				9
- Emission	of flame or expulsion of molten metal			
- Electric str	ength tests of equipment after completion	n of tests		
Supplemen	tary information:			

Annex M.4 Table batter	:Additional safeguards for e ies	ary lithium	N/A				
Battery/Cell	Test conditions		Measurements				
No.		U	I (A)	Temp (C)]		
	Normal						
	Abnormal						
	Single fault –SC/OC				9		

Supplementary Information:

Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{highest} (°C)	Observation
O	(·		

Supplementary Information:

Annex U Q.1	TABLE: Circuits inter	nded for interc	onnection with	n building wirin	g (LPS)	
Note: Meas	sured UOC (V) with all loa	ad circuits disco	onnected:			·
Output	Components	U _{oc} (V)	I _{sc} (A)		S (\	VA)
Circuit			Meas.	Limit	Meas.	Limit
Output terminal	Normal condition	0	0	8	0	100
Output terminal	Single fault: R5 SC	0	0	8	0	100
Output terminal	Single fault: R7 SC	0	0	8	0*	100
Output	Single fault: U1 pin 4-	0	0	8	0	100

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0

0

Single fault: U1 pin 4-

2 SC

6 SC

terminal

Output

terminal

8

0

100







			IEC 6	2368-1:2018		
Clause		Require	ement + Test	YO	Result - Rem	ark Verdict
Suppleme SC=Short Test voltag	circuit,	OC=Open circuit,	@=Fuse opened	I, *=Unit shut dov	vn, #=U1 damage.	
T.2, T.3, T.4, T.5	TABI	E: Steady force	test		Y	Р
Part/Loc	ation	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Internal componen part	t or C	-		10	5	Clearances is not reduced, no hazard
Тор		*	1.5	100	5	No damage, no hazar
Side		*	1.5	100	5	No damage, no hazar
Bottom		*	1.5	100	5 No damage, no haz	
Supplemer *: Plastic e						
			9		YC	
Т.6, Т.9		LE: Impact tests				N/A
Part/Loc	ation	Material	Thickness (mm)	Vertical distance (mm)	-	Observation
						-
Supplemer	ntary inf	ormation:				YC)
				9		9
Т.7	TAB	LE: Drop tests				Р
Part/Loca	ation	Material	Thickness (mm)	Drop Height (mm)	OI	oservation
Тор		*	1.5	1000	No dam	nage, no hazard

Supplementary information:

*

*

FAX

Side

Bottom

*: Plastic enclosure source:





1000

1000

1.5

1.5



No damage, no hazard

No damage, no hazard

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IEC 62368-1:2018						
Clause	YC	Requirement + Test	VA	Result - Remark	Verdict	

T.8	TAB	TABLE: Stress relief test					
Part/Locati	on	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	ration
Plastic enclosure		*	1.5	70	7	No damage, n	o hazard
Supplementa *: Plastic enc	•						



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Clause	Requirement + Test	Result - Remark	Verdict

	IE	C62368_1B - ATTACHMEN	Т	
Clause	Requirement + Test	Resul	t - Remark	Verdict
	AT	ACHMENT TO TEST REPO	PRT	
		IEC 62368-1		
	EUROPEAN GROUP	DIFFERENCES AND NATIO	ONAL DIFFERENCES	
(Audio/vi	ideo, information and comm	unication technology equi	pment - Part 1: Safety requir	ements)
Differences	according to	EN 62368-1:2018+A11:2020)	
Attachment	t Form No:	EU_GD_IEC62368_1B_II		
Attachment	t Originator	Nemko AS	VA	
Master Atta	chment:	Date 2020-09-22		
	© 2017 IEC System for Conf vitzerland. All rights reserve		ation of Electrical Equipmen	t (IECEE)
	CENELEC COMMON MOD	FICATIONS (EN)	-	Verdict
C	Clauses, subclauses, notes, IEC 62368-1:2018 are prefix		which are additional to those in	9
CONTENT	Add the following annexes:			Р
S	Annex ZA (normative)	Normative references to i with their corresponding I		
	Annex ZB (normative)	Special national conditior	าร	
	Annex ZC (informative)	A-deviations		
	Annex ZD (informative)	IEC and CENELEC code cords	e designations for flexible	







VII







	to the followi		s in the ret	erence documen		1.2018) accordi	
	0.2.1	Note	1	Note 3	4.1.15	Note	Y
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	
YC	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	
	For special r	national condition	ons, see Ar	nex ZB.			N/A
1		wing note: use of certain subst ment is restricted w					N/A
4.Z1	Add the follo	wing new subc	lause after	4.9:			N/A
	mains, prote as integral pa the building i b) and c): a) except as devices nece	ults in circuits of ective devices s arts of the equip nstallation, sub detailed in b) a essary to compl s of B.3.1 and E	hall be inclu pment or as ject to the f ind c), prote ly with the	uded either parts of ollowing, a), ective	Y	9	
	parts of the e		5.4 Shall be	included as			YC
	the equipme coupler, r.f.i. earth fault pr	nents in series nt such as the s filter and switcl otection may be evices in the bui	supply cord h, short-circ e provided l	, appliance uit and by			
	c) it is permit or permaner dedicated ov in the buildin of protection	ted for pluggal ntly connected rercurrent and s g installation, p , e.g. fuses or c he installation i	ble equipm d equipmer short-circuit provided that sircuit break	ent type B at, to rely on protection t the means ers, is fully	Y		
	installation, t state, except A the buildin	placed on prote he installation in that for plugg g installation sh otection in acco	nstructions able equip nall be rega	shall so ment type rded as			







5.4.2.3.2.4	Add the following to the end of this subclause:		N/A
	The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.		0
10.2.1	Add the following to ^{c)} and ^{d)} in table 39: For additional requirements, see 10.5.1.		N/A
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions:		N/A
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or presets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.		
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking. <i>The dose-rate is determined by means of a</i> <i>radiation monitor with an effective area of 10 cm</i> ² ,		Ø
	at any point 10 cm from the outer surface of the apparatus.		
	Moreover, the measurement shall be made under fault conditions causing an increase of the high- voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	Y	
	For RS1, the dose-rate shall not exceed 1 μ Sv/h taking account of the background level.		
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.		
10.6.1	Add the following paragraph to the end of the subclause:		N/A
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.		
10.Z1	Add the following new subclause after 10.6.5. 10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz		N/A
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	YC	
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand- held and body-mounted devices, attention is drawn to EN 50360 and EN 50566	Y	





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G.7.1	Add the following n NOTE Z1 The harmoniz the IEC cord types are g	ed code designations corresponding to		N/A
Bibliograph	Add the following s	tandards:	9	N/A
y U	-	otes for the standards indicated:		
	IEC 60130-9	NOTE Harmonized as EN 6013		
	IEC 60269-2	NOTE Harmonized as HD 6026	9-2.	
YCY	IEC 60309-1	NOTE Harmonized as EN 6030	9-1.	
	IEC 60364	NOTE some parts harmonized i	n HD 384/HD 60364 series.	
	IEC 60601-2-4	NOTE Harmonized as EN 6060		
	IEC 60664-5	NOTE Harmonized as EN 60664	4-5.	
	IEC 61032:1997	NOTE Harmonized as EN 61032	2:1998 (not modified).	
	IEC 61508-1	NOTE Harmonized as EN 61508	3-1.	
	IEC 61558-2-1	NOTE Harmonized as EN 6155	8-2-1.	
	IEC 61558-2-4	NOTE Harmonized as EN 6155	8-2-4.	
	IEC 61558-2-6	NOTE Harmonized as EN 6155	8-2-6.	
	IEC 61643-1	NOTE Harmonized as EN 61643	3-1.	<u> </u>
	IEC 61643-21	NOTE Harmonized as EN 61643	3-21.	
	IEC 61643-311	NOTE Harmonized as EN 61643	3-311.	
	IEC 61643-321	NOTE Harmonized as EN 61643	3-321.	
	IEC 61643-331	NOTE Harmonized as EN 61643	3-331.	
ZB	ANNEX ZB, SPEC	IAL NATIONAL CONDITIONS	(EN)	N/A
4.1.15	Denmark, Finland,	Norway and Sweden		N/A
	To the end of the su	ubclause the following is added:		
	connection to other if safety relies on co if surge suppressors network terminals a marking stating that	equipment type A intended for equipment or a network shall, onnection to reliable earthing or s are connected between the and accessible parts, have a t the equipment shall be rthed mains socket-outlet.		9
	The marking text in be as follows:	the applicable countries shall		
		skaltilsluttesenstikkontakt med idelsetilstikproppensjord."		
	In Finland : "Laite o liitettäväsuojakoske "	n ttimillavarustettuunpistorasiaan		
	liitettäväsuojakoske "			

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4.7.3	United Kingdom		N/A
	To the end of the subclause the following is added:		
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	9	9
5.2.2.2	Denmark		N/A
YCY	After the 2nd paragraph add the following:		
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	YC	



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V

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5.4.11.1	Finland and Sweden		N/A
and Annex	To the end of the subclause the following is added:		
G	For separation of the telecommunication network from earth the following is applicable:		YC
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either		
YC	• two layers of thin sheet material, each of which shall pass the electric strength test below, or		
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	YLV	
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition		Y
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and		
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV.It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	YC	
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:		YC
	• the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;		
	• the additional testing shall be performed on all the test specimens as described in EN 60384-14;		
	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	YC	
5.5.2.1	Norway		N/A
	After the 3rd paragraph the following is added:		
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).		VA







5.5.6	Finland, Norway and Sweden		N/A
	To the end of the subclause the following is added:		
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipmenttype A shall comply with G.10.1 and the test of G.10.2.	9	
5.6.1	Denmark		N/A
	Add to the end of the subclause		
	Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. <i>Justification:</i>		
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.		
5.6.4.2.1	Ireland and United Kingdom		N/A
	After the indent for pluggable equipment type A , the following is added:		G
	 the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug. 		
5.6.5.1	To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area.	YO	N/A
5.7.5	Denmark To the end of the subclause the following is added:		N/A
	The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		Y













5.7.6.1 Norway and Sweden N/A To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in: "Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing - and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)" NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will also be accepted in Norway): "Apparatersomerkoplettilbeskyttelsesjord via nettpluggog/eller via annetjordtilkopletutstyr ogertilkoplet et koaksialbasertkabel-TV nett, kanforårsakebrannfare. For å unngådetteskal det vedtilkoplingavapparatertilkabel-TV nett installeresengalvanisk isolator mellomapparatetogkabel-TV nettet." Translation to Swedish: "Apparatersomärkopplad till skyddsjord via jordatvägguttagoch/eller via annanutrustningochsamtidigtärkopplad till kabel-TV nätkanivissa fall medfőra risk főr brand. Főrattundvikadettaskall vid anslutningavapparaten till kabel-TV nätgalvanisk isolator finnasmellanapparatenochkabel-TV nätet.".

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5.7.6.2	Denmark		N/A
	To the end of the subclause the following is added:		
	The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	9	
B.3.1 and	Ireland and United Kingdom		N/A
B.4	The following is applicable:		
YC	To protect against excessive currents and short- circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these	YC	
	tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met		
G.4.2	Denmark		N/A
	To the end of the subclause the following is added:		
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.		
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	Y	
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.		YO
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.		
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.		
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	YC	
	Justification:		
	Heavy Current Regulations, Section 6c		









G.4.2	United Kingdom		N/A
	To the end of the subclause the following is added:		
Ŋ	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	9	Y
G.7.1	United Kingdom		N/A
	To the first paragraph the following is added:		
	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.		YG
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		
G.7.1	Ireland		N/A
	To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State		
0 = 0	which is equivalent to the relevant Irish Standard		
G.7.2	Ireland and United Kingdom		N/A
	To the first paragraph the following is added:		
	A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.		











ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	N/A
10.5.2	Germany	N/A
	The following requirement applies:	Y LY
YC	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.	
	Justification:	
	German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	
	NOTE Contact address:	
	Physikalisch-TechnischeBundesanstalt, Bundesallee 100,	
	D-38116 Braunschweig,	
	Tel.: Int +49-531-592-6320,	
	Internet: http://www.ptb.de	







VE



- Product photos



Report No. YCT2024SZ0520698S

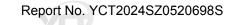


















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