



TEST REPORT IEC 62368-1 Audio/video, information and communication technology equipment Part 1: Safety requirements	
Report Number.....	AOC251028005S
Date of issue	2025-11-03
Total number of pages	67 pages
Name of Testing Laboratory preparing the Report	Shenzhen AOCE Electronic Technology Service Co., Ltd Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
Applicant's name	ENPING LANE ELECTRONICS TECHNOLOGY CO.,LTD.
Address	No.11/B, Enping Foreign and Private Capital Industry Zone, GuangDong
Test specification:	
Standard	IEC 62368-1:2018
Test procedure.....	Test report
Non-standard test method.....	N/A
TRF template used	IECEE OD-2020-F1:2021, Ed.1.4
Test Report Form No.....	IEC62368_1E
Test Report Form(s) Originator....	UL(US)
Master TRF	Dated 2022-04-14
Copyright © 2022 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.	
General disclaimer: The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the Testing Laboratory, responsible for this Test Report.	

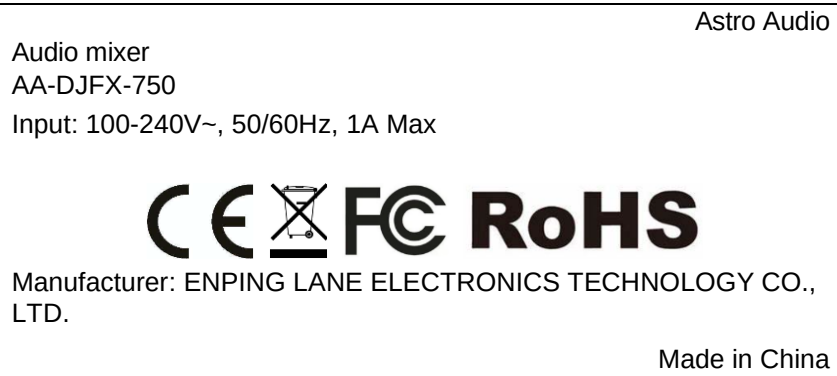
Test item description	Audio mixer			
Trade Mark	Astro Audio			
Manufacturer	ENPING LANE ELECTRONICS TECHNOLOGY CO.,LTD. No.11/B, Enping Foreign and Private Capital Industry Zone, GuangDong			
Model/Type reference	AA-DJFX-750, M6DSP, AA-DJ850, AA-DJ850MKII, AA-DJ900USB, AA-DJ626A, AA-DJ201PRO, AA-DJ750PRO, AA-900USB PRO, AA-E112, AA-124, AA-E6, AA-E12, AA-E132, AA-E24, AA-E34, AA-E52, AA-E116, AA-E118, AA-E16, AA-E20, AA-E8, AA-E32, AA-E134, AA-E128, AA-E114, AA-E32, AA-DJFX-750, AA-DJFX-900USB, AA-DJFX-850MKII, AA-DJFX850, AA-DJFX-6262A, AA-DJFX-626 PRO, AA-DJFX32, AA-DJFXM12, AA-DJFX16, AA-DJFX32 PRO, AA-DJFX -201 PRO, DJFX*** (X=A~Z, a~z, 0-9 -00, 00-99 or blank for marketing purpose and no impact safety related construction and critical components)			
Ratings	Input: 100-240V~, 50/60Hz, 1A Max			
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):				
☒	Testing Laboratory:	Shenzhen AOCE Electronic Technology Service Co., Ltd		
	Testing location/ address	Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China		
	Tested by (name, function, signature)	<table border="1"> <tr> <td>Bill Hu Technical Engineer</td> <td><i>Bill Hu</i></td> </tr> </table>	Bill Hu Technical Engineer	<i>Bill Hu</i>
Bill Hu Technical Engineer	<i>Bill Hu</i>			
	Approved by (name, function, signature) ..	<table border="1"> <tr> <td>Robin Liu Technical Manager</td> <td><i>Robin Liu</i></td> </tr> </table>	Robin Liu Technical Manager	<i>Robin Liu</i>
Robin Liu Technical Manager	<i>Robin Liu</i>			
☐	Testing procedure: CTF Stage 1:			
	Testing location/ address			
	Tested by (name, function, signature)			
	Approved by (name, function, signature) ..			
☐	Testing procedure: CTF Stage 2:			
	Testing location/ address			
	Tested by (name + signature)			
	Witnessed by (name, function, signature) .			
	Approved by (name, function, signature) ..			
☐	Testing procedure: CTF Stage 3:			
☐	Testing procedure: CTF Stage 4:			

Testing location/ address		
Tested by (name, function, signature)		
Witnessed by (name, function, signature) .		
Approved by (name, function, signature) ..		
Supervised by (name, function, signature) :		

List of Attachments (including a total number of pages in each attachment):	
Attachment 1: Photo	
Summary of testing:	
Tests performed (name of test and test clause): The submitted samples were found to comply with the requirements of: IEC 62368-1: 2018	Testing location: Shenzhen AOCE Electronic Technology Service Co., Ltd Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
Summary of compliance with National Differences (List of countries addressed): None ☐ The product fulfils the requirements of	

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

**Note:**

1. The above marking are the minimum requirements by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.

Test item particulars:			
Product group	☒ end product	☐ built-in component	
Classification of use by	☒ Ordinary person	☒ Children likely present	
	☐ Instructed person		
	☐ Skilled person		
Supply connection	☒ AC mains	☐ DC mains	
	☐ 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		
	☐ pluggable equipment type B -		
	☐ non-detachable supply cord		
	☐ appliance coupler		
	☐ permanent connection		
	☐ mating connector		
	☐ other: Not directly connected to the mains		
Considered current rating of protective device	☒ 16A for building; 2A for equipment		
	Location: ☒ building	☒ equipment	
	☐ N/A		
Equipment mobility	☐ movable	☐ hand-held	☐ transportable
	☐ direct plug-in	☒ stationary	☐ for building-in
	☐ wall/ceiling-mounted	☐ SRME/rack-mounted	
	☐ other:		
Overvoltage category (OVC)	☐ OVC I	☒ OVC II	☐ OVC III
	☐ OVC IV		
Class of equipment	☒ Class I	☐ Class II	☐ Class III
	☐ Not classified	☐ other:	
Special installation location	☒ N/A	☐ restricted access area	
	☐ outdoor location		
	☐ other:		
Pollution degree (PD)	☐ PD 1	☒ PD 2	☐ PD 3
Manufacturer's specified T_{ma}	45 °C	☐ Outdoor: minimum ____ °C	
IP protection class	☒ IPX0	☐ IP____	
Power systems	☒ TN	☐ TT	☐ IT - ____ V _{L-L}
	☐ not AC mains		
Altitude during operation (m)	☐ 2000 m or less	☒ 3000 m	
Altitude of test laboratory (m)	☒ 2000 m or less	☐ ____ m	
Mass of equipment (kg)	≤7 kg		

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: 2025-10-09 Date (s) of performance of tests: 2025-10-09 to 2025-10-28	
General remarks: "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☐ comma / ☒ point is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC60950-1:	
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 ☒ Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) : ENPING LANE ELECTRONICS TECHNOLOGY CO.,LTD. No.11/B, Enping Foreign and Private Capital Industry Zone, GuangDong	
General product information and other remarks: 1. This apparatus is Audio mixer used for information technology equipment or audio/video equipment, for indoor use only, the maximum ambient temperature and altitude are 45°C and 3000m. 2. Equipment contain one built-in switching mode power supply. 3. All models are same except for the model name. 4. All tests were performed on the model AA-DJFX-750.	

OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS				
Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source (e.g. ES3: Primary circuit)	Body Part (e.g. Ordinary)	Safeguards		
		B	S	R
ES3: All circuits expect for output circuits	Ordinary	N/A	N/A	Enclosure, see 5.3.2, 5.4.2, 5.4.3, 5.5.3, 5.5.4.
ES1: Output of power board	Ordinary	N/A	N/A	N/A
ES1: All output ports	Ordinary	N/A	N/A	N/A
ES1: Accessible parts	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire			
Class and Energy Source (e.g. PS2: 100 Watt circuit)	Material part (e.g. Printed board)	Safeguards		
		B	1 st S	2 nd S
PS3 circuit	Enclosure	See 6.3	Metal	N/A
PS3 circuit	PCB	See 6.3	Min.V-0	N/A
PS3 circuit	Internal / external wiring	See 6.3.1	See 6.5 (Equipment safeguards, rated VW-1)	N/A
PS3 circuit	Other combustible components / materials	See 6.3	See 6.4.5, 6.4.6	N/A
PS1 circuit	All combustible material for external output terminal	N/A	N/A	N/A
7	Injury caused by hazardous substances			
Class and Energy Source (e.g. Ozone)	Body Part (e.g., Skilled)	Safeguards		
		B	S	R
N/A	N/A	N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source (e.g. MS3: Plastic fan blades)	Body Part (e.g. Ordinary)	Safeguards		
		B	S	R
MS1: Equipment Mass	Ordinary	Stationary equipment	N/A	N/A
MS1: Sharp edges and corners	Ordinary	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source (e.g. TS1: Keyboard caps)	Body Part (e.g., Ordinary)	Safeguards		
		B	S	R
TS1: All accessible parts	Ordinary	N/A	N/A	N/A
10	Radiation			

Class and Energy Source (e.g. RS1: PMP sound output)	Body Part (e.g., Ordinary)	Safeguards		
		B	S	R
RS1: LED indicator light	Ordinary	N/A	N/A	N/A
Supplementary Information: “B” – Basic Safeguard; “S” – Supplementary Safeguard; “R” – Reinforced Safeguard				

ENERGY SOURCE DIAGRAM

Optional. Manufacturers are to provide the energy sources diagram identify declared energy sources and identifying the demarcations are between power sources. Recommend diagram be provided included in power supply and multipart systems.

Insert diagram below. Example diagram designs are; Block diagrams; image(s) with layered data; mechanical drawings

☒ ES ☒ PS ☒ MS ☒ TS ☒ RS

(See **OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS**)

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

4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	(See appended Table 4.1.2.)	P
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	P
4.1.3	Equipment design and construction	Evaluation of safeguards regarding access to ES3 and to limiting the outputs to fulfill ES1, and protection in regard to risk of spread of fire, mechanical-caused injury and thermal burn considered.	P
4.1.4	Specified ambient temperature for outdoor use (°C) :		N/A
4.1.5	Constructions and components not specifically covered		N/A
4.1.8	Liquids and liquid filled components (LFC)		N/A
4.1.15	Markings and instructions	(See Annex F)	P
4.4.3	Safeguard robustness		P
4.4.3.1	General		P
4.4.3.2	Steady force tests	(See Clause T.5)	P
4.4.3.3	Drop tests		N/A
4.4.3.4	Impact tests	(See Clause T.6)	P
4.4.3.5	Internal accessible safeguard tests		N/A
4.4.3.6	Glass impact tests		N/A
4.4.3.7	Glass fixation tests		N/A
	Glass impact test (1J)		N/A
	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests		N/A
4.4.3.9	Air comprising a safeguard		P
4.4.3.10	Accessibility, glass, safeguard effectiveness	No damaged. The class 3/2 energy sources could not become accessible to an ordinary person, and all other	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
		safeguards remain effective during and after above tests.	
4.4.4	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks		N/A
4.5	Explosion		P
4.5.1	General	No explosion observed during normal / abnormal / single fault conditions.	P
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	P
	No harm by explosion during single fault conditions	(See Clause B.4)	P
4.6	Fixing of conductors		P
	Fix conductors not to defeat a safeguard		P
	Compliance is checked by test :	(See Clause T.2)	P
4.7	Equipment for direct insertion into mains socket-outlets		N/A
4.7.2	Mains plug part complies with relevant standard .. :		N/A
4.7.3	Torque (Nm) :		N/A
4.8	Equipment containing coin/button cell batteries		N/A
4.8.1	General	No coin/button cell batteries.	N/A
4.8.2	Instructional safeguard :		N/A
4.8.3	Battery compartment door/cover construction		N/A
	Open torque test		N/A
4.8.4.2	Stress relief test		N/A
4.8.4.3	Battery replacement test		N/A
4.8.4.4	Drop test		N/A
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test		N/A
4.8.5	Compliance		N/A
	30N force test with test probe		N/A
	20N force test with test hook		N/A
4.9	Likelihood of fire or shock due to entry of conductive object		P
4.10	Component requirements		P
4.10.1	Disconnect Device	(See Annex L)	P
4.10.2	Switches and relays	(See appended table 4.1.2.)	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5	ELECTRICALLY-CAUSED INJURY		P
5.2	Classification and limits of electrical energy sources		P
5.2.2	ES1, ES2 and ES3 limits	(See appended table 5.2)	P
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	P
5.2.2.3	Capacitance limits	(See appended table 5.2)	N/A
5.2.2.4	Single pulse limits	No single pulse introduced	N/A
5.2.2.5	Limits for repetitive pulses	(See appended table 5.2)	N/A
5.2.2.6	Ringing signals	No ringing signals.	N/A
5.2.2.7	Audio signals	(See Clause E.1)	P
5.3	Protection against electrical energy sources		P
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	See below.	P
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits		P
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors		N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 parts are accessible by ordinary person.	P
	Accessibility to outdoor equipment bare parts	No outdoor equipment.	N/A
5.3.2.2	Contact requirements		P
	Test with test probe from Annex V	No bare parts at ES2 or ES3 basic safeguard could be accessed by operator.	—
5.3.2.2 a)	Air gap – electric strength test potential (V)		N/A
5.3.2.2 b)	Air gap – distance (mm)	>0.23	P
5.3.2.3	Compliance		P
5.3.2.4	Terminals for connecting stripped wire	No such structure	N/A
5.4	Insulation materials and requirements		P
5.4.1.2	Properties of insulating material		P
5.4.1.3	Material is non-hygroscopic		P
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	P
5.4.1.5	Pollution degrees	PD2	P
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2 is applied.	N/A
5.4.1.5.3	Thermal cycling test		N/A
5.4.1.6	Insulation in transformers with varying dimensions		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage	(See appended table 5.4.1.8)	P
5.4.1.9	Insulating surfaces	Considered.	P
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		P
5.4.1.10.2	Vicat test.....		N/A
5.4.1.10.3	Ball pressure test	(See appended table 5.4.1.10.3)	P
5.4.2	Clearances	(See appended table 5.4.2, 5.4.3)	P
5.4.2.1	General requirements		P
	Clearances in circuits connected to AC Mains, Alternative method		N/A
5.4.2.2	Procedure 1 for determining clearance	(See appended table 5.4.2, 5.4.3)	P
	Temporary overvoltage	2000V _{peak} .	—
5.4.2.3	Procedure 2 for determining clearance	(See appended table 5.4.2, 5.4.3)	P
5.4.2.3.2.2	a.c. mains transient voltage	2500V _{peak} .	—
5.4.2.3.2.3	d.c. mains transient voltage		—
5.4.2.3.2.4	External circuit transient voltage.....		—
5.4.2.3.2.5	Transient voltage determined by measurement		—
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	Not such procedure used.	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	Up to 3000m, Factor 1.14	P
5.4.2.6	Clearance measurement	(See appended table 5.4.2, 5.4.3)	P
5.4.3	Creepage distances	(See appended table 5.4.2, 5.4.3)	P
5.4.3.1	General	See below.	P
5.4.3.3	Material group	IIIa or IIIb	—
5.4.3.4	Creepage distances measurement	(See appended table 5.4.2, 5.4.3)	P
5.4.4	Solid insulation		P
5.4.4.1	General requirements		P
5.4.4.2	Minimum distance through insulation	(See appended table 5.4.4.2)	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.3	Insulating compound forming solid insulation	Certified source of photo couplers used. (See append table 4.1.2)	P
5.4.4.4	Solid insulation in semiconductor devices	(See clause 5.4.4.3)	P
5.4.4.5	Insulating compound forming cemented joints	No such construction within the EUT	N/A
5.4.4.6	Thin sheet material	See below.	P
5.4.4.6.1	General requirements	At least 2 layers of insulation tape are used for reinforced insulation and are not expected to be subject to handling or abrasion during ordinary or instructed person servicing.	P
5.4.4.6.2	Separable thin sheet material	Two layers are provided as reinforced insulation any one layer passed the electric strength test for reinforced insulation.	P
	Number of layers (pcs)	See above	P
5.4.4.6.3	Non-separable thin sheet material	No non-separable thin sheet material.	N/A
	Number of layers (pcs)		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material		N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components	See G.5.3 and G.6.1	P
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	(See appended Tables 5.4.4.9)	P
	Alternative by electric strength test, tested voltage (V), K_R	(See appended Tables 5.4.4.9)	P
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
5.4.5.3	Insulation resistance ($M\Omega$)		N/A
	Electric strength test		N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	No such insulation of internal wire as part of supplementary insulation	N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning		P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Relative humidity (%), temperature (°C), duration (h)	95%, 40°C, 120h	—
5.4.9	Electric strength test	(See appended table 5.4.9)	P
5.4.9.1	Test procedure for type test of solid insulation.....	Method 1 used.	P
5.4.9.2	Test procedure for routine test		N/A
5.4.10	Safeguards against transient voltages from external circuits	No such external circuits.	N/A
5.4.10.1	Parts and circuits separated from external circuits		N/A
5.4.10.2	Test methods		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
5.4.10.3	Verification for insulation breakdown for impulse test		N/A
5.4.11	Separation between external circuits and earth	No connection to external circuits with transient voltage.	N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A
	SPDs bridge separation between external circuit and earth		N/A
	Rated operating voltage U_{op} (V)		—
	Nominal voltage U_{peak} (V)		—
	Max increase due to variation ΔU_{sp}		—
	Max increase due to ageing ΔU_{sa}		—
5.4.11.3	Test method and compliance		N/A
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid		N/A
5.4.12.3	Compatibility of an insulating liquid		N/A
5.4.12.4	Container for insulating liquid		N/A
5.5	Components as safeguards		P
5.5.1	General		P
5.5.2	Capacitors and RC units	Approved X capacitor and Y capacitor provided. (See appended table 4.1.2)	P
5.5.2.1	General requirement		P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector	(See appended table 5.5.2.2)	P
5.5.3	Transformers	(See Annex G.5.3)	P
5.5.4	Optocouplers	(See Annex G.12)	P
5.5.5	Relays	No such relay used as safeguard	N/A
5.5.6	Resistors	(See Annex G.10)	P
5.5.7	SPDs	(See Annex G.8)	P
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable	No such external circuits.	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment		N/A
	RCD rated residual operating current (mA)		—
5.6	Protective conductor		P
5.6.2	Requirement for protective conductors		P
5.6.2.1	General requirements		P
5.6.2.2	Colour of insulation	No switches, current limiting devices or over current protective devices use in Protective conductors.	P
5.6.3	Requirement for protective earthing conductors		P
	Protective earthing conductor size (mm ²)	See table 4.1.2	—
	Protective earthing conductor serving as a reinforced safeguard		N/A
	Protective earthing conductor serving as a double safeguard		N/A
5.6.4	Requirements for protective bonding conductors	The green/yellow wire was fasten to the internal metal enclosure by screw.	P
5.6.4.1	Protective bonding conductors		P
	Protective bonding conductor size (mm ²).	(See table 4.1.2)	—
5.6.4.2	Protective current rating (A)	16A	P
5.6.5	Terminals for protective conductors		P
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	Earth pin of appliance inlet used for protective earthing terminal	P
	Terminal size for connecting protective bonding conductors (mm)	Protective bonding conductor is metal enclosure, the terminal for protective bonding conductor: M3.5 (diameter: 3.5mm) screw type used	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.6.5.2	Corrosion	The potential difference between the two different metals is less than 0.6 V.	P
5.6.6	Resistance of the protective bonding system		P
5.6.6.1	Requirements		P
5.6.6.2	Test Method	(See appended table 5.6.6)	P
5.6.6.3	Resistance (Ω) or voltage drop.....	(See appended table 5.6.6)	P
5.6.7	Reliable connection of a protective earthing conductor		P
5.6.8	Functional earthing		N/A
	Conductor size (mm ²).....		N/A
	Class II with functional earthing marking		N/A
	Appliance inlet cl & cr (mm).....		N/A
5.7	Prospective touch voltage, touch current and protective conductor current		P
5.7.2	Measuring devices and networks		P
5.7.2.1	Measurement of touch current	(See appended table 5.7.4)	P
5.7.2.2	Measurement of voltage	(See appended table 5.7.4)	P
5.7.3	Equipment set-up, supply connections and earth connections		P
5.7.4	Unearthed accessible parts	Touch current at unearthed accessible conductive parts is not exceeding ES1 limits. (See appended table 5.7.4)	P
5.7.5	Earthed accessible conductive parts	(See appended table 5.7.5)	P
5.7.6	Requirements when touch current exceeds ES2 limits		N/A
	Protective conductor current (mA)		N/A
	Instructional Safeguard.....		N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	No connection to external circuits with transient voltage.	N/A
5.7.7.1	Touch current from coaxial cables		N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables		N/A
5.7.8	Summation of touch currents from external circuits		N/A
	a) Equipment connected to earthed external circuits, current (mA)		N/A
	b) Equipment connected to unearthed external circuits, current (mA)		N/A
5.8	Backfeed safeguard in battery backed up supplies		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Mains terminal ES.....:		N/A
	Air gap (mm).....:		N/A

6	ELECTRICALLY- CAUSED FIRE		P
6.2	Classification of PS and PIS		P
6.2.2	Power source circuit classifications.....:	(See appended table 6.2.2)	P
6.2.3	Classification of potential ignition sources	(See appended table 6.2.2)	P
6.2.3.1	Arcing PIS	(See appended table 6.2.3.1)	P
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	P
6.3	Safeguards against fire under normal operating and abnormal operating conditions		P
6.3.1	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, 9.3, B.1.5, B.2.6)	P
	Combustible materials outside fire enclosure		N/A
6.4	Safeguards against fire under single fault conditions		P
6.4.1	Safeguard method	Method of Control fire spread used.	P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions		N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits	See below.	P
6.4.5.2	Supplementary safeguards	Compliance detailed as follows: - Printed board: rated V-1 or VTM-1 min. class material; - Other components other than PCB and wires are mounted on PCB rated V-1 or VTM-1 min., or made of V-2, VTM-2 or HF2 min. - Isolating transformer: complying with G.5.3.	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
6.4.6	Control of fire spread in PS3 circuits	Compliance detailed as follows: – Parts as in 6.4.5 above – Fire enclosure: metal enclosure used.	P
6.4.7	Separation of combustible materials from a PIS	See the following details.	N/A
6.4.7.2	Separation by distance	All components and combustible materials other than small parts are either rated at least V-2 class material or mounted on PCB material with rated min. V-1 class material, and metal enclosure used.	N/A
6.4.7.3	Separation by a fire barrier	See above.	N/A
6.4.8	Fire enclosures and fire barriers	Equipment enclosure was evaluated as a fire enclosure.	P
6.4.8.2	Fire enclosure and fire barrier material properties	See the following details.	P
6.4.8.2.1	Requirements for a fire barrier	No fire barrier is used.	N/A
6.4.8.2.2	Requirements for a fire enclosure	Metal enclosure used.	P
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	P
6.4.8.3.1	Fire enclosure and fire barrier openings		P
6.4.8.3.2	Fire barrier dimensions		P
6.4.8.3.3	Top openings and properties	No openings	N/A
	Openings dimensions (mm)..... :		N/A
6.4.8.3.4	Bottom openings and properties		P
	Openings dimensions (mm)..... :	2.5mm max	P
	Flammability tests for the bottom of a fire enclosure		N/A
	Instructional Safeguard..... :		N/A
6.4.8.3.5	Side openings and properties		N/A
	Openings dimensions (mm)..... :		N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c) :		N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating :	Metal enclosure used	P
6.4.9	Flammability of insulating liquid..... :		N/A
6.5	Internal and external wiring		P
6.5.1	General requirements	See below.	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
6.5.2	Requirements for interconnection to building wiring :	The material of VW-1 on internal wiring were considered compliance equal to equivalent to IEC/TS 60695-11-21 relevant standards.	P
6.5.3	Internal wiring size (mm ²) for socket-outlets..... :		N/A
6.6	Safeguards against fire due to the connection to additional equipment		P

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

8	MECHANICALLY-CAUSED INJURY		P
8.2	Mechanical energy source classifications		P
8.3	Safeguards against mechanical energy sources		P
8.4	Safeguards against parts with sharp edges and corners		P
8.4.1	Safeguards		P
	Instructional Safeguard..... :	MS1 applied for edges and corners.	P
8.4.2	Sharp edges or corners	MS1	P
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts		N/A
	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
	Moving MS3 parts only accessible to skilled person		N/A
8.5.2	Instructional safeguard..... :		N/A
8.5.4	Special categories of equipment containing moving parts		N/A
8.5.4.1	General		N/A
8.5.4.2	Equipment containing work cells with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work cell		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system		N/A
8.5.4.2.2.2	Visual indicator		N/A
8.5.4.2.3	Emergency stop system		N/A
	Maximum stopping distance from the point of activation (m).....:		N/A
	Space between end point and nearest fixed mechanical part (mm)		N/A
8.5.4.2.4	Endurance requirements		N/A
	Mechanical system subjected to 100 000 cycles of operation		N/A
	- Mechanical function check and visual inspection		N/A
	- Cable assembly		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media		N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts		N/A
8.5.4.3.3	Disconnection from the supply		N/A
8.5.4.3.4	Cut type and test force (N).....:		N/A
8.5.4.3.5	Compliance		N/A
8.5.5	High pressure lamps		N/A
	Explosion test		N/A
8.5.5.3	Glass particles dimensions (mm)		N/A
8.6	Stability of equipment		P
8.6.1	General	MS1	P
	Instructional safeguard.....:		N/A
8.6.2	Static stability		N/A
8.6.2.2	Static stability test		N/A
8.6.2.3	Downward force test		N/A
8.6.3	Relocation stability		N/A
	Wheels diameter (mm)		—
	Tilt test		N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test		N/A
8.7	Equipment mounted to wall, ceiling or other structure		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
8.7.1	Mount means type		N/A
8.7.2	Test methods		N/A
	Test 1, additional downwards force (N).....		N/A
	Test 2, number of attachment points and test force (N)		N/A
	Test 3 Nominal diameter (mm) and applied torque (Nm).....		N/A
8.8	Handles strength		N/A
8.8.1	General		N/A
8.8.2	Handle strength test		N/A
	Number of handles.....		—
	Force applied (N)		—
8.9	Wheels or casters attachment requirements		N/A
8.9.2	Pull test		N/A
8.10	Carts, stands and similar carriers		N/A
8.10.1	General		N/A
8.10.2	Marking and instructions.....		N/A
8.10.3	Cart, stand or carrier loading test		N/A
	Loading force applied (N)		N/A
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability		N/A
	Force applied (N)		—
8.10.6	Thermoplastic temperature stability		N/A
8.11	Mounting means for slide-rail mounted equipment (SRME)		N/A
8.11.1	General		N/A
8.11.2	Requirements for slide rails		N/A
	Instructional Safeguard.....		N/A
8.11.3	Mechanical strength test		N/A
8.11.3.1	Downward force test, force (N) applied.....		N/A
8.11.3.2	Lateral push force test		N/A
8.11.3.3	Integrity of slide rail end stops		N/A
8.11.4	Compliance		N/A
8.12	Telescoping or rod antennas		N/A
	Button/ball diameter (mm)		—

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
9	THERMAL BURN INJURY		P
9.2	Thermal energy source classifications		P
9.3	Touch temperature limits		P
9.3.1	Touch temperatures of accessible parts	All accessible surfaces are classified as TS1 (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	P
9.3.2	Test method and compliance	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	P
9.4	Safeguards against thermal energy sources		P
9.5	Requirements for safeguards		P
9.5.1	Equipment safeguard		P
9.5.2	Instructional safeguard.....		N/A
9.6	Requirements for wireless power transmitters		N/A
9.6.1	General		N/A
9.6.2	Specification of the foreign objects		N/A
9.6.3	Test method and compliance		N/A

10	RADIATION		P
10.2	Radiation energy source classification		P
10.2.1	General classification	See OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS	P
	Lasers		—
	Lamps and lamp systems.....	RS1	—
	Image projectors		—
	X-Ray.....		—
	Personal music player		—
10.3	Safeguards against laser radiation		N/A
	The standard(s) equipment containing laser(s) comply		N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)		P
10.4.1	General requirements	LED indicator as low power application.	P
	Instructional safeguard provided for accessible radiation level needs to exceed		N/A
	Risk group marking and location		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Information for safe operation and installation		N/A
10.4.2	Requirements for enclosures		N/A
	UV radiation exposure		N/A
10.4.3	Instructional safeguard		N/A
10.5	Safeguards against X-radiation		N/A
10.5.1	Requirements		N/A
	Instructional safeguard for skilled persons		—
10.5.3	Maximum radiation (pA/kg).....		—
10.6	Safeguards against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification		N/A
	Acoustic output $L_{Aeq,T}$, dB(A).....		N/A
	Unweighted RMS output voltage (mV).....		N/A
	Digital output signal (dBFS)		N/A
10.6.3	Requirements for dose-based systems		N/A
10.6.3.1	General requirements		N/A
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements		N/A
	30 s integrated exposure level (MEL30)		N/A
	Warning for $MEL \geq 100$ dB(A)		N/A
10.6.4	Measurement methods		N/A
10.6.5	Protection of persons		N/A
	Instructional safeguards		N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)		N/A
10.6.6.1	Corded listening devices with analogue input		N/A
	Listening device input voltage (mV).....		N/A
10.6.6.2	Corded listening devices with digital input		N/A
	Max. acoustic output $L_{Aeq,T}$, dB(A)		N/A
10.6.6.3	Cordless listening devices		N/A
	Max. acoustic output $L_{Aeq,T}$, dB(A)		N/A

B	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS	P
B.1	General	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	P
B.2	Normal operating conditions		P
B.2.1	General requirements :	(See Test Item Particulars and appended test tables)	P
	Audio Amplifiers and equipment with audio amplifiers :		P
B.2.3	Supply voltage and tolerances	+10% and -10% for a.c. mains.	P
B.2.5	Input test :	(See appended table B.2.5)	P
B.3	Simulated abnormal operating conditions		P
B.3.1	General	(See appended tables B.3, B.4)	P
B.3.2	Covering of ventilation openings	(See appended table B.3, B.4)	P
	Instructional safeguard :	TS1	P
B.3.3	DC mains polarity test	The equipment is not connected to a D.C. mains.	N/A
B.3.4	Setting of voltage selector	No voltage selector	N/A
B.3.5	Maximum load at output terminals	No such structure.	N/A
B.3.6	Reverse battery polarity	No such structure.	N/A
B.3.7	Audio amplifier abnormal operating conditions		P
B.3.8	Safeguards functional during and after abnormal operating conditions :	(See appended tables B.3, B.4)	P
B.4	Simulated single fault conditions		P
B.4.1	General		P
B.4.2	Temperature controlling device	No such devices.	N/A
B.4.3	Blocked motor test	No motor used.	N/A
B.4.4	Functional insulation	(See appended tables B.3, B.4)	P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended tables B.3, B.4)	P
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended tables B.3, B.4)	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	(See appended tables B.3, B.4)	P
B.4.6	Short circuit or disconnection of passive components	(See appended tables B.3, B.4)	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
B.4.7	Continuous operation of components	The equipment is continuous operating type and no such components intended for short time operation or intermittent operation.	N/A
B.4.8	Compliance during and after single fault conditions	(See appended tables B.3, B.4)	P
B.4.9	Battery charging and discharging under single fault conditions	No battery involved in the EUT.	N/A
C	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test		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 test		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		P
E.1	Electrical energy source classification for audio signals		P
	Maximum non-clipped output power (W)	Test maximum volume	—
	Rated load impedance (Ω)		—
	Open-circuit output voltage (V)		—
	Instructional safeguard		—
E.2	Audio amplifier normal operating conditions		P
	Audio signal source type		—
	Audio output power (W)		—
	Audio output voltage (V)		—
	Rated load impedance (Ω)		—
	Requirements for temperature measurement		P
E.3	Audio amplifier abnormal operating conditions	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	P

IEC 62368-1			
Clause	Requirement + Test		Verdict
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		P
F.1	General		P
	Language	English. Versions in other languages will be provided when national certificate approval.	—
F.2	Letter symbols and graphical symbols		P
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	P
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P
F.3	Equipment markings		P
F.3.1	Equipment marking locations	The equipment marking is located on the surface and is easily visible.	P
F.3.2	Equipment identification markings	See below.	P
F.3.2.1	Manufacturer identification	See copy of marking plate	P
F.3.2.2	Model identification	See copy of marking plate	P
F.3.3	Equipment rating markings	See copy of marking plate	P
F.3.3.1	Equipment with direct connection to mains	See copy of marking plate	P
F.3.3.2	Equipment without direct connection to mains		N/A
F.3.3.3	Nature of the supply voltage	See copy of marking plate	P
F.3.3.4	Rated voltage.....	See copy of marking plate	P
F.3.3.5	Rated frequency	See copy of marking plate	P
F.3.3.6	Rated current or rated power.....	See copy of marking plate	P
F.3.3.7	Equipment with multiple supply connections	Only one connection.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	See below.	P
F.3.5.1	Mains appliance outlet and socket-outlet markings	No such devices within the equipment.	N/A
F.3.5.2	Switch position identification marking.....	The identification markings are marking on the switch	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
F.3.5.3	Replacement fuse identification and rating markings :	The Fuse is located within the equipment and not replaceable by an ordinary person or an instructed person. The fuse marking is marked on PCB near fuse: F1 T2A/250Vac	P
	Instructional safeguards for neutral fuse :		N/A
F.3.5.4	Replacement battery identification marking :	No battery used.	N/A
F.3.5.5	Neutral conductor terminal	Not permanently connected equipment	N/A
F.3.5.6	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification		P
F.3.6.1	Class I equipment		P
F.3.6.1.1	Protective earthing conductor terminal :	The symbol with “⊕” is located adjacent to earthed terminal of appliance inlet	P
F.3.6.1.2	Protective bonding conductor terminals :	The symbol with “⊕” is located adjacent to earthed terminal of appliance inlet	P
F.3.6.2	Equipment class marking :		N/A
F.3.6.3	Functional earthing terminal marking :		N/A
F.3.7	Equipment IP rating marking :	IPX0	N/A
F.3.8	External power supply output marking :		N/A
F.3.9	Durability, legibility and permanence of marking	All markings required are easily discernible under normal lighting conditions.	P
F.3.10	Test for permanence of markings	After rubbing test by water and petroleum spirit, the marking still legible; it is not easily possible to remove the marking plate and show no curling.	P
F.4	Instructions		P
	a) Information prior to installation and initial use	Relevant safety caution texts and installation instruction are available	P
	b) Equipment for use in locations where children not likely to be present		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	c) Instructions for installation and interconnection	Relevant safety caution texts and installation instruction are available.	P
	d) Equipment intended for use only in restricted access area		N/A
	e) Equipment intended to be fastened in place		N/A
	f) Instructions for audio equipment terminals		N/A
	g) Protective earthing used as a safeguard		N/A
	h) Protective conductor current exceeding ES2 limits		N/A
	i) Graphic symbols used on equipment		N/A
	j) Permanently connected equipment not provided with all-pole mains switch		N/A
	k) Replaceable components or modules providing safeguard function		N/A
	l) Equipment containing insulating liquid		N/A
	m) Installation instructions for outdoor equipment		N/A
F.5	Instructional safeguards		N/A
G	COMPONENTS		P
G.1	Switches		P
G.1.1	General	(See appended table 4.1.2)	P
G.1.2	Ratings, endurance, spacing, maximum load	(See appended table 4.1.2)	P
G.1.3	Test method and compliance		N/A
G.2	Relays		N/A
G.2.1	Requirements	No relays	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance		N/A
G.3	Protective devices		P
G.3.1	Thermal cut-offs	No thermal cut-offs	N/A
	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Test method and compliance		N/A
G.3.2	Thermal links		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics		N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors	No PTC thermistors	N/A
G.3.4	Overcurrent protection devices	Approved fuse is used (See appended table 4.1.2)	P
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions..... :		N/A
G.4	Connectors		P
G.4.1	Spacings		P
G.4.2	Mains connector configuration..... :	Approved AC inlet used	P
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely	No misconnection likely.	P
G.5	Wound components		P
G.5.1	Wire insulation in wound components	Approved TIW used for secondary winding of T1	P
G.5.1.2	Protection against mechanical stress	Physical separation is provided (by insulating tube and insulation tape).	P
G.5.2	Endurance test		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Test time (days per cycle) :		—
	Test temperature (°C)..... :		—
G.5.2.3	Wound components supplied from the mains		N/A
G.5.2.4	No insulation breakdown		N/A
G.5.3	Transformers	See below.	P
G.5.3.1	Compliance method..... :	The transformers meet the requirements given in G.5.3.2 and G.5.3.3.	P
	Position :	T1	P
	Method of protection :	Over current protection by circuit design.	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.5.3.2	Insulation	Primary windings and secondary windings are separated by Reinforced insulation.	P
	Protection from displacement of windings..... :	By bobbin, insulation tape and TIW	—
G.5.3.3	Transformer overload tests	(See appended tables B.3, B.4)	P
G.5.3.3.1	Test conditions	Tested in the complete equipment.	P
G.5.3.3.2	Winding temperatures	(See appended table B.3, B.4)	P
G.5.3.3.3	Winding temperatures - alternative test method		N/A
G.5.3.4	Transformers using FIW		N/A
G.5.3.4.1	General		N/A
	FIW wire nominal diameter..... :		—
G.5.3.4.2	Transformers with basic insulation only		N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation..... :		N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core		N/A
G.5.3.4.5	Thermal cycling test and compliance		N/A
G.5.3.4.6	Partial discharge test		N/A
G.5.3.4.7	Routine test		N/A
G.5.4	Motors	No Motors used.	N/A
G.5.4.1	General requirements		N/A
G.5.4.2	Motor overload test conditions		N/A
G.5.4.3	Running overload test		N/A
G.5.4.4.2	Locked-rotor overload test		N/A
	Test duration (days)..... :		—
G.5.4.5	Running overload test for DC motors		N/A
G.5.4.5.2	Tested in the unit		N/A
G.5.4.5.3	Alternative method		N/A
G.5.4.6	Locked-rotor overload test for DC motors		N/A
G.5.4.6.2	Tested in the unit		N/A
	Maximum Temperature..... :		N/A
G.5.4.6.3	Alternative method		N/A
G.5.4.7	Motors with capacitors		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
	Operating voltage		—
G.6	Wire Insulation		P
G.6.1	General	Approved triple insulated wires comply with Annex J.	P
G.6.2	Enamelled winding wire insulation	Solvent-based enamel winding is not considered basic insulation.	N/A
G.7	Mains supply cords		P
G.7.1	General requirements		P
	Type	(See appended table 4.1.2)	—
G.7.2	Cross sectional area (mm ² or AWG)	(See appended table 4.1.2)	P
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)		N/A
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm)		N/A
G.7.3.2.4	Strain relief and cord anchorage 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	Test method and compliance		N/A
	Overall diameter or minor overall dimension, <i>D</i> (mm)		—
	Radius of curvature after test (mm)		—
G.7.6	Supply wiring space		N/A
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements		N/A
G.7.6.2.2	Test with 8 mm strand		N/A
G.8	Varistors		P
G.8.1	General requirements	Approved varistors used. (See appended table 4.1.2)	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.8.2	Safeguards against fire		P
G.8.2.1	General	Metal enclosure used	N/A
G.8.2.2	Varistor overload test		N/A
G.8.2.3	Temporary overvoltage test		N/A
G.9	Integrated circuit (IC) current limiters		N/A
G.9.1	Requirements	No IC current limiters used.	N/A
	IC limiter output current (max. 5A)..... :		—
	Manufacturers' defined drift :		—
G.9.2	Test Program		N/A
G.9.3	Compliance		N/A
G.10	Resistors		P
G.10.1	General	Certified bleeder resistors used.	P
G.10.2	Conditioning		N/A
G.10.3	Resistor test		N/A
G.10.4	Voltage surge test		N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units		P
G.11.1	General requirements	The X-Capacitor and the Y-Capacitor are used as safeguard and complied with IEC/EN 60384-14 (See appended table 4.1.2).	P
G.11.2	Conditioning of capacitors and RC units		P
G.11.3	Rules for selecting capacitors		P
G.12	Optocouplers		P
	Optocouplers comply with IEC 60747-5-5 with specifics	The optocouplers used in the equipment are complied with IEC/EN 60747-5-5. (See appended table 4.1.2)	P
	Type test voltage $V_{ini,a}$:	See above.	—
	Routine test voltage, $V_{ini,b}$:	See above.	—
G.13	Printed boards	See below.	P
G.13.1	General requirements	See below.	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.13.2	Uncoated printed boards	The insulation between conductors on the outer surfaces of an uncoated printed board complied with the minimum clearance and creepage requirements.	P
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
G.13.5	Insulation between conductors on different surfaces	For Double-sided single-layers PCB of main board, the cl/cr. distance complies with the requirement.	P
	Distance through insulation :	See above.	P
	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.13.6.2	Test method and compliance		N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements :	(See Clause G.13)	N/A
G.15	Pressurized liquid filled components		N/A
G.15.1	Requirements		N/A
G.15.2	Test methods and compliance		N/A
G.15.2.1	Hydrostatic pressure test		N/A
G.15.2.2	Creep resistance test		N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test		N/A
G.15.2.5	Thermal cycling test		N/A
G.15.2.6	Force test		N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)		N/A
G.16.1	Condition for fault tested is not required		N/A
	ICX with associated circuitry tested in equipment		N/A
	ICX tested separately		N/A
G.16.2	Tests		N/A
	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test..... :		—

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Mains voltage that impulses to be superimposed on :		—
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test :		—
G.16.3	Capacitor discharge test..... :		N/A
H	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	No telephone ringing signals.	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		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V) :		N/A
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		P
J.1	General		P
	Winding wire insulation :	Approved triple insulated wire used. (See appended table 4.1.2)	—
	Solid round winding wire, diameter (mm) :		N/A
	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm ²)..... :		N/A
J.2/J.3	Tests and Manufacturing	(See separate test report)	—
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
	Instructional safeguard :		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

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
K.5.1	Under single fault condition		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Test method and compliance :		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements		N/A
	In circuit connected to mains, separation distance for contact gaps (mm)..... :		N/A
	In circuit isolated from mains, separation distance for contact gaps (mm)..... :		N/A
	Electric strength test before and after the test of K.7.2 :		N/A
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		P
L.1	General requirements	Appliance coupler used for disconnect device	P
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single-phase equipment	The disconnect device disconnect both poles simultaneously.	P
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		P
L.8	Multiple power sources		N/A
	Instructional safeguard :		N/A
M	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Batteries and their cells comply with relevant IEC standards :		N/A
M.3	Protection circuits for batteries provided within the equipment		N/A
M.3.1	Requirements		N/A
M.3.2	Test method		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Overcharging of a rechargeable battery		N/A
	Excessive discharging		N/A
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A
M.3.3	Compliance		N/A
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Requirements		N/A
M.4.2.2	Compliance..... :		N/A
M.4.3	Fire enclosure..... :		N/A
M.4.4	Drop test of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation and procedure for the drop test		N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%): :		N/A
M.4.4.4	Check of the charge/discharge function		N/A
M.4.4.5	Charge / discharge cycle test		N/A
M.4.4.6	Compliance		N/A
M.5	Risk of burn due to short-circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Test method and compliance		N/A
M.6	Safeguards against short-circuits		N/A
M.6.1	External and internal faults		N/A
M.6.2	Compliance		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
	Calculated hydrogen generation rate..... :		N/A
M.7.2	Test method and compliance		N/A
	Minimum air flow rate, Q (m ³ /h)..... :		N/A
M.7.3	Ventilation tests		N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A
	Hydrogen gas concentration (%)..... :		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
M.7.3.3	Ventilation test – alternative 2		N/A
	Obtained hydrogen generation rate..... :		N/A
M.7.3.4	Ventilation test – alternative 3		N/A
	Hydrogen gas concentration (%)..... :		N/A
M.7.4	Marking..... :		N/A
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte		N/A
M.8.1	General		N/A
M.8.2	Test method		N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume V_z (m ³ /s)..... :		—
M.8.2.3	Correction factors..... :		—
M.8.2.4	Calculation of distance d (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
M.10	Instructions to prevent reasonably foreseeable misuse		N/A
	Instructional safeguard..... :		N/A
N	ELECTROCHEMICAL POTENTIALS		N/A
	Material(s) used..... :		—
O	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		P
	Value of X (mm)..... :	Measurement is in accordance with applicable figures.	—
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		P
P.1	General		P
P.2	Safeguards against entry or consequences of entry of a foreign object		P
P.2.1	General		P
P.2.2	Safeguards against entry of a foreign object		P
	Location and Dimensions (mm)..... :	2.5mm max	—
P.2.3	Safeguards against the consequences of entry of a foreign object		N/A
P.2.3.1	Safeguard requirements		N/A
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Transportable equipment with metalized plastic parts..... :		N/A
P.2.3.2	Consequence of entry test..... :		N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Compliance		N/A
P.4	Metallized coatings and adhesives securing parts		N/A
P.4.1	General		N/A
P.4.2	Tests		N/A
	Conditioning, T _c (°C) :		—
	Duration (weeks)..... :		—
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING		P
Q.1	Limited power sources		P
Q.1.1	Requirements		P
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	c) Regulating network limited output	(See appended table Q.1)	P
	d) Overcurrent protective device limited output		N/A
	e) IC current limiter complying with G.9		N/A
Q.1.2	Test method and compliance :	(See appended table Q.1)	P
	Current rating of overcurrent protective device (A) :		N/A
Q.2	Test for external circuits – paired conductor cable		N/A
	Maximum output current (A) :		N/A
	Current limiting method :		—
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General		N/A
R.2	Test setup		N/A
	Overcurrent protective device for test..... :		—
R.3	Test method		N/A
	Cord/cable used for test :		—
R.4	Compliance		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
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		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)		—
S.3	Flammability test for the bottom of a fire enclosure		N/A
S.3.1	Mounting of samples		N/A
S.3.2	Test method and compliance		N/A
	Mounting of samples		—
	Wall thickness (mm)		—
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 exceeding 4 000 W		N/A
	Samples, material		—
	Wall thickness (mm)		—
	Conditioning (°C)		—
T	MECHANICAL STRENGTH TESTS		P
T.1	General		P
T.2	Steady force test, 10 N	(See appended table T.2)	P
T.3	Steady force test, 30 N		N/A
T.4	Steady force test, 100 N		N/A
T.5	Steady force test, 250 N	(See appended table T.5)	P
T.6	Enclosure impact test	(See appended table T.6)	P
	Fall test		P
	Swing test		P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
T.7	Drop test		N/A
T.8	Stress relief test		N/A
T.9	Glass Impact Test		N/A
T.10	Glass fragmentation test		N/A
	Number of particles counted.....	No such glass provided.	N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm)	No such antennas provided.	N/A
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1	General		N/A
	Instructional safeguard :		N/A
U.2	Test method and compliance for non-intrinsically protected CRTs		N/A
U.3	Protective screen		N/A
V	DETERMINATION OF ACCESSIBLE PARTS		P
V.1	Accessible parts of equipment		P
V.1.1	General	Following the probes test specified in this annex Figure V.1, V.2 are suitable.	P
V.1.2	Surfaces and openings tested with jointed test probes		P
V.1.3	Openings tested with straight unjointed test probes		N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe		N/A
V.1.5	Slot openings tested with wedge probe		N/A
V.1.6	Terminals tested with rigid test wire		N/A
V.2	Accessible part criterion		P
X	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)		N/A
	Clearance		N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES		N/A
Y.1	General		N/A
Y.2	Resistance to UV radiation		N/A
Y.3	Resistance to corrosion		N/A
Y.3	Resistance to corrosion		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
Y.3.2	Test apparatus		N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A
Y.3.4	Test procedure :		N/A
Y.3.5	Compliance		N/A
Y.4	Gaskets		N/A
Y.4.1	General		N/A
Y.4.2	Gasket tests		N/A
Y.4.3	Tensile strength and elongation tests		N/A
	Alternative test methods :		N/A
Y.4.4	Compression test		N/A
Y.4.5	Oil resistance		N/A
Y.4.6	Securing means		N/A
Y.5	Protection of equipment within an outdoor enclosure		N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		N/A
	Relevant tests of IEC 60529 or Y.5.3 :		N/A
Y.5.3	Water spray test		N/A
Y.5.4	Protection from plants and vermin		N/A
Y.5.5	Protection from excessive dust		N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment		N/A
Y.6	Mechanical strength of enclosures		N/A
Y.6.1	General		N/A
Y.6.2	Impact test :		N/A

IEC 62368-1							
Clause	Requirement + Test			Result - Remark			Verdict
5.2	TABLE: Classification of electrical energy sources						P
Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters				ES Class
			U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	
264Vac/ 60Hz	Primary circuits supplied by a.c. mains supply	Normal	--	--	SS	--	ES3 (declared)
		Abnormal – see table B.3, B.4 for detail	--	--	SS	--	
		Single fault – see table B.3, B.4 for detail	--	--	SS	--	
264Vac/ 60Hz	Output terminal “+” to “-” for power board	Normal	Max. 15.25Vdc	--	SS	--	ES1
		Abnormal – see table B.3, B.4 for detail	Max. 15.25Vdc	--	SS	--	
		Single fault – see table B.3, B.4 for detail	Max. 15.25Vdc	--	SS	--	
264Vac/ 60Hz	USB terminal	Normal	Max. 5.17Vdc	--	SS	--	ES1
		Abnormal – see table B.3, B.4 for detail	Max. 5.17Vdc	--	SS	--	
		Single fault – see table B.3, B.4 for detail	Max. 5.17Vdc	--	SS	--	
264Vac/ 60Hz	USB terminal to earth	Normal	--	0.139mA _{pk}	SS	--	ES1
		Abnormal – see table B.3, B.4 for detail	--	0.139mA _{pk}	SS	--	
		Single fault – see table B.3, B.4 for detail	--	0.139mA _{pk}	SS	--	
Supplementary information:							
1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.							
2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.							

5.4.1.8	TABLE: Working voltage measurement					P
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments	

IEC 62368-1				
Clause	Requirement + Test		Result - Remark	Verdict
T1 Pin 1*-F	244	424	43.93k	--
T1 Pin 3-F	257	448	43.93k	--
T1 Pin 4-F	177	420	43.93k	--
T1 Pin 5*-F	175	412	43.93k	--
T1 Pin 1*-S*	243	376	43.93k	--
T1 Pin 3-S*	263	456	43.93k	Max. VPeak voltage Max. VRMS voltage
T1 Pin 4-S*	176	396	43.93k	--
T1 Pin 5*-S*	176	404	43.93k	--
CY1 Pri pin to CY2 Sec pin	180	382	60	
U2 Pin 3-1	182	352	60	--
U2 Pin 4-1	184	352	60	--
U2 Pin 3-2	182	352	60	--
U2 Pin 4-2	184	352	60	--
Supplementary information:				
Tested voltage: 240Vac, 60Hz; load: Maximum working state of all units				

5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics			N/A
Method.....:		ISO 306 / B50		—
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)	
--	--	--	--	
Supplementary information:				
--				

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics				P
Allowed impression diameter (mm).....:			≤ 2 mm		—
Object/Part No./Material	Manufacturer/trademark	Thickness (mm)	Test temperature (°C)	Impression diameter (mm)	
AC connector (CON1 for power board)	See 4.1.2	Min.1.5	125	1.17	
Supplementary information:					
--					

5.4.2, 5.4.3	TABLE: Minimum Clearances/Creepage distance	P
---------------------	--	---

IEC 62368-1								
Clause	Requirement + Test				Result - Remark			Verdict
Clearance (cl) and creepage distance (cr) at/of/between:	U _p (V)	U _{rms} (V)	Freq ¹⁾ (Hz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)
Basic / supplementary:								
Different polarity of L/N before fuse	<420	<250	60	1.8 (1.5*1.14)	4.1	--	2.5	4.1
Different polarity of Fuse F1	<420	<250	60	1.8 (1.5*1.14)	2.8	--	2.5	2.8
Live parts to metal enclosure	<420	<250	60	1.8 (1.5*1.14)	4.3	--	2.5	4.3
T1 primary winding to core	456	263	43.93k	1.8 (1.5*1.14)	3.2	--	2.7	4.2
T1 core to secondary winding	456	263	43.93k	1.8 (1.5*1.14)	>10.0	--	2.7	>10.0
Reinforced:								
Primary trace to secondary trace under U2	<420	<250	60	3.5 (3.0*1.14)	7.1	--	5.0	7.9
Primary trace to secondary trace under CY1 and CY2	<420	<250	60	3.5 (3.0*1.14)	9.5	--	5.0	9.5
Primary trace to secondary trace under T1	456	263	43.93k	3.5 (3.0*1.14)	8.3	--	5.4	8.3
Primary winding to secondary winding of T1	456	263	43.93k	3.5 (3.0*1.14)	>10.0	--	5.4	>10.0
Supplementary information:								
1) Only for frequency above 30 kHz 2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied) 3) For clearance and creepage did not describe above are far larger than limit above. The secondary of T1 used triple insulated wire, core as primary of T1.								

5.4.4.2	TABLE: Minimum distance through insulation				P
Distance through insulation (DTI) at/of	Peak voltage (V)	Insulation	Required DTI (mm)	Measured DTI (mm)	
Bobbin of T1	456Vac	Reinforce	0.4	Min. 0.7	
Photo Coupler (U2)	420Vac	Reinforce	0.4	Min. 0.4	
Insulation sheet	456Vac	Basic	--	Min. 0.3	
Insulation tape	456Vac	Reinforce	2 layers	Min.2 layers	
Supplementary information:					

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

5.4.4.9	TABLE: Solid insulation at frequencies >30 kHz					P
Insulation material	E_P	Frequency (kHz)	K_R	Thickness d (mm)	Insulation	V_{PW} (Vpk)
Bobbin of T1 (Phenolic)	17	55.69	0.71	Min. 0.7	Reinforce	456Vac
Insulation tape (Polyethylene)	49	55.69	0.46	Min.2 layers	Reinforce	456Vac
Supplementary information:						
--						

5.4.9	TABLE: Electric strength tests			P
Test voltage applied between:		Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Basic/supplementary				
L to N (with F1 opened)		DC	2500V	No
L/N to metal enclosure		DC	2500V	No
T1 primary winding to core		DC	2500V	No
T1 core to secondary winding		DC	2500V	No
Insulation sheet		DC	2500V	No
Reinforced:				
L/N to USB output port		DC	4000V	No
Primary to power switch (wrapped with foil)		DC	4000V	No
Primary to secondary of transformer T1		DC	4000V	No
Insulation tape used in and around transformer T1 (one layer)		DC	4000V	No
Supplementary information:				
--				

5.5.2.2	TABLE: Stored discharge on capacitors				P
Location	Supply voltage (V)	Operating and fault condition ¹⁾	Switch position	Measured voltage (Vpk)	ES Class
Phase to Neutral	264Vac, 60Hz	Normal	--	2V	ES1
Phase to Neutral	264Vac, 60Hz	R1 OC	--	5V	ES1
Phase to Neutral	264Vac, 60Hz	R2 OC	--	5V	ES1

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
Supplementary information:			
X-capacitors installed for testing: C1=0.22uF			
☒ bleeding resistor rating: R1=R3= R*1= R*2=1MΩ.			
☐ ICX:			
1) Normal operating condition (e.g., normal operation, or open fuse), SC= short circuit, OC= open circuit			

5.6.6	TABLE: Resistance of protective conductors and terminations				P
Location	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)	
PE of appliance inlet to farthest metal enclosure	32	2	--	0.015	
PE of power cord to farthest metal enclosure	32	2	--	0.046	
Supplementary information:					
--					

5.7.4	TABLE: Unearthed accessible parts					P
Location	Operating and fault conditions	Supply Voltage (V)	Parameters			ES class
			Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	
L/N to output terminal	Normal	264Vac	--	0.139mA _{pk}	60	ES1
	Abnormal – see table B.3, B.4 for detail	264Vac	--	0.139mA _{pk}	60	
	Single fault – see table B.3, B.4 for detail	264Vac	--	0.139mA _{pk}	60	
Supplementary information:						
Abbreviation: SC= short circuit; OC= open circuit						

5.7.5	TABLE: Earthed accessible conductive part				P
Supply voltage (V)		264V			—
Phase(s)		[X] Single Phase; [] Three Phase: [] Delta [] Wye			—
Power Distribution System		☒ TN ☐ TT ☐ IT			—
Location	Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comment		
L/N to earthed accessible parts (Metal enclosure)	1	0.196mA _{pk}	ES1		

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

5.8	TABLE: Backfeed safeguard in battery backed up supplies					N/A
Location	Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
--	--	--	--	--	--	--
Supplementary information:						
Abbreviation: SC= short circuit, OC= open circuit						

6.2.2	TABLE: Power source circuit classifications						P
Location		Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
Input circuit		--	--	-	--	--	PS3 (Declared)
USB terminal		Normal condition	5.17	0.5	2.24	3	PS1
		D1 SC	0	0	0	0	
		U1 Pin 2-5 SC	0	0	0	0	
		U1 Pin 1-5 SC	0	0	0	0	
		D2 SC	0	0	0	0	
Supplementary information:							
Abbreviation: SC= short circuit; OC= open circuit							
1) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.							

6.2.3.1	TABLE: Determination of Arcing PIS				P
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
All internal circuits / components except for USB port.		--	--	--	Yes (declaration)
Supplementary information:					
--					

6.2.3.2	TABLE: Determination of resistive PIS			P
Location		Operating and fault condition	Dissipate power (W)	Resistive PIS? Yes / No
All internal circuits /		--	--	Yes

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
components			(declaration)
Supplementary information:			
Abbreviation: SC= short circuit; OC= open circuit			

8.5.5	TABLE: High pressure lamp				N/A
Lamp manufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No	
--	--	--	--	--	
Supplementary information:					
--					

9.6	TABLE: Temperature measurements for wireless power transmitters								N/A
Supply voltage (V)..... :				--					—
Max. transmit power of transmitter (W)..... :				--					—
Foreign objects	w/o receiver and direct contact		with receiver and direct contact		with receiver and at distance of 2 mm		with receiver and at distance of 5 mm		
	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	
--	--	--	--	--	--	--	--	--	
Supplementary information:									
--									

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temperature measurements				P
Supply voltage (V) :	90V/50Hz		264V/50Hz		—
Ambient temperature during test Tamb (°C) :	25.0	45.0	25.0	45.0	—
Maximum measured temperature <i>T</i> of part/at:	<i>T</i> (°C)				Allowed <i>T</i> _{max} (°C)
Power cord	25.3	45.3	25.6	45.6	70
AC inlet	25.6	45.6	27.2	47.2	70
Power Switch	25.8	--	27.4	--	77
AC connector (CN1)	28.9	48.9	30.6	50.6	85
C1 body	29.0	49.0	32.3	52.3	105
ZNR1 body	29.8	49.8	33.5	53.5	105

IEC 62368-1							
Clause	Requirement + Test				Result - Remark		Verdict
L1 coil	31.0	51.0	33.4	53.4	110		
C2 body	31.0	51.0	32.2	52.2	105		
C11 body	32.3	52.3	34.4	54.4	105		
T1 Coil	33.8	53.8	37.2	57.2	110		
T1 bobbin	33.6	53.6	36.9	56.9	110		
U2 body	30.1	50.1	31.9	51.9	110		
CY1 body	31.2	51.2	33.5	53.5	125		
CY3 body	31.3	51.3	33.5	53.5	125		
EC4 body	32.6	52.6	34.7	54.7	105		
EC3 body	32.1	52.1	35.0	55.0	105		
PCB near U1	34.8	54.8	38.6	58.6	130		
PCB near DB1	31.6	51.6	32.7	52.7	130		
Output wire	29.9	49.9	31.3	51.3	105		
Input wire	28.0	48.0	29.4	49.4	105		
DC connector (J9)	30.7	50.7	31.9	41.9	85		
PCB near between U1 and U400	51.9	71.9	52.7	72.7	130		
PCB near between U2 and T3	38.5	58.5	39.4	59.4	130		
PCB near U3	43.7	63.7	44.6	64.6	130		
Mylar near T1	27.8	47.8	29.4	49.4	80		
Metal enclosure near T1, outside (Top)	26.2	--	27.4	--	60		
Metal enclosure near T1, outside (Bottom)	27.7	--	29.1	--	60		
Metal enclosure near main board, outside (Top)	28.7	--	29.8	--	60		
Metal enclosure near main board, outside (Bottom)	29.1	--	30.1	--	60		
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
--	--	--	--	--	--	--	--
Supplementary information:							
--							

B.2.5 TABLE: Input test								P
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
90	50	0.902	--	63.31	--	F1	0.902	Maximum working state of all units
90	60	0.893	--	63.28	--	F1	0.893	
100	50	0.813	1.0	63.35	--	F1	0.813	

IEC 62368-1							
Clause	Requirement + Test					Result - Remark	Verdict
100	60	0.819	1.0	63.31	--	F1	0.819
240	50	0.397	1.0	63.78	--	F1	0.397
240	60	0.398	1.0	63.75	--	F1	0.398
264	50	0.364	--	63.92	--	F1	0.364
264	60	0.361	--	63.88	--	F1	0.361
Supplementary information:							
Equipment may be have rated current or rated power or both. Both should be measured.							

B.3, B.4 TABLE: Abnormal operating and fault condition tests						P
Ambient temperature T_{amb} (°C)..... :					25°C if not specified	—
Power source for EUT: Manufacturer, model/type, outputrating .. :					--	—
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	current (A)	Observation
Openings	Blocked	264Vac	4h9min s	F1	0.364	The unit operated under the fault condition and ran for thermal equilibrium. No hazard, No damage. Measured maximum temperature: T1 Coil: 38.3°C; T1 bobbin: 37.7°C; Metal enclosure near T1, outside (Top): 27.7°C; Metal enclosure near T1, outside (Bottom): 29.5°C; Metal enclosure near main board, outside (Top): 29.9°C; Metal enclosure near main board, outside (Bottom): 30.4°C; Power Switch: 26.5°C; Ambient: 25.0°C
Transformer T1 output (15Vdc)	OL	264Vac	6h11min ns	F1	0.364→ 0.392→ 0.416→ 0.495→ 0.018	Output current load to 1.7A maximum. T1 output shutdown when output current to 1.75A maximum. No damaged, no hazards. Measured maximum temperature: T1 Coil: 92.4°C; T1 bobbin: 91.4°C; Metal enclosure near T1,

IEC 62368-1						
Clause	Requirement + Test				Result - Remark	Verdict
						outside (Top): 38.0°C; Metal enclosure near T1, outside (Bottom): 41.9°C; Metal enclosure near main board, outside (Top): 33.3°C; Metal enclosure near main board, outside (Bottom): 34.0°C; Power Switch: 32.0°C; Ambient: 25.0°C
BG1 Pin 1-4	SC	264Vac	1s	F1	0.364→0	Unit shut down, F1 fuse immediately open, no hazardous.
EC1	SC	264Vac	1s	F1	0.364→0	Unit shut down, F1 fuse immediately open, no hazardous.
EC2	SC	264Vac	1s	F1	0.364→0	Unit shut down, F1 fuse immediately open, no hazardous.
U1 pin 2-5	SC	264Vac	1s	F1	0.364→0	Unit shut down, F1 fuse immediately open, no hazardous.
U1 pin 1-5	SC	264Vac	1s	F1	0.364→0	Unit shut down, F1 fuse immediately open, no hazardous.
D1	SC	264Vac	1s	F1	0.364→0	Unit shut down, F1 fuse immediately open, no hazardous.
Q1 pin G-D	SC	264Vac	1s	F1	0.364→0	Unit shut down, F1 fuse immediately open, no hazardous.
Q1 pin G-S	SC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.
Q1 pin D-S	SC	264Vac	1s	F1	0.364→0	Unit shut down, F1 fuse immediately open, no hazardous.
T1 pin 1*-3	SC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.
T1 pin 4-5*	SC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.
T1 pin S*-F	SC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.
U2 pin 1-2	SC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.

IEC 62368-1							
Clause	Requirement + Test				Result - Remark		Verdict
U2 pin 3-4	SC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.	
U2 pin 1	OC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.	
U2 pin 3	OC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.	
D2	SC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.	
Z2	SC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.	
R19	SC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.	
UL2 pin 2-4	SC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.	
C10	SC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.	
U5 pin 1-4	SC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.	
U5 pin 2-4	SC	264Vac	10mins	F1	0.364	Unit normal working, No damage. No hazards.	
C59	SC	264Vac	10mins	F1	0.364	Unit normal working, No damage. No hazards.	
U4 pin 1-4	SC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.	
U4 pin 1-5	SC	264Vac	10mins	F1	0.364	Unit normal working, No damage. No hazards.	
U11 pin 2-3	SC	264Vac	10mins	F1	0.364→ 0.018	Unit shut down immediately, No damage. No hazards.	
R6	SC	264Vac	10mins	F1	0.364	Unit normal working, No damage. No hazards.	
Supplementary information:							
Abbreviation: SC= short circuit; OC= open circuit; OL= Overload							

M.3	TABLE: Protection circuits for batteries provided within the equipment		N/A
Is it possible to install the battery in a reverse polarity position? :		No	—
Equipment Specification	Charging		
	Voltage (V)	Current (A)	
	--	--	
Manufacturer/type	Battery specification		

IEC 62368-1							
Clause	Requirement + Test				Result - Remark		Verdict
	Non-rechargeable batteries			Rechargeable batteries			
				Discharging current (A)	Unintentional charging current (A)	Charging	
	Voltage (V)	Current (A)					
--	--	--	--	--	--	--	--
Note: The tests of M.3.2 are applicable only when above appropriate data is not available.							
Specified battery temperature (°C)					--		—
Component No.	Fault condition	Charge/ discharge mode	Test time	Temp. (°C)	Current (A)	Voltage (V)	Observation
--	--	--	--	--	--	--	--
Supplementary information:							
Abbreviation: SC= short circuit; OC= open circuit NL= no chemical leakage; NS= no spillage of liquid; NE= no explosion; NF= no emission of flame or expulsion of molten metal.							

M.4.2	TABLE: Charging safeguards for equipment containing a secondary lithium battery					N/A
Maximum specified charging voltage (V)				--	—	
Maximum specified charging current (A)				--	—	
Highest specified charging temperature (°C)				--	—	
Lowest specified charging temperature (°C)				--	—	
Battery manufacturer/type	Operating and fault condition	Measurement			Observation	
		Charging voltage (V)	Charging current (A)	Temp. (°C)		
--	--	--	--	--	--	
Supplementary information:						
Abbreviation: SC= short circuit; OC= open circuit; MSCV= maximum specified charging voltage; MSCC= maximum specified charging current; HSCT= highest specified charging temperature; LSCT= lowest specified charging temperature						

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)						P
Output Circuit	Condition	U _{oc} (V)	Time (s)	I _{sc} (A)		S (VA)	
				Meas.	Limit	Meas.	Limit
USB terminal	Normal condition	5.17	5	0.5	8	2.41	100
	D1 SC	0	5	0	8	0	100
	U1 Pin 2-5 SC	0	5	0	8	0	100
	U1 Pin 1-5 SC	0	5	0	8	0	100

IEC 62368-1							
Clause	Requirement + Test			Result - Remark			Verdict
	D2 SC	0	5	0	8	0	100
	C59 SC	0	5	0	8	0	100
	R16 SC	0	5	0	8	0	100
Supplementary Information:							
Abbreviation: SC= short circuit; OC= open circuit; OL= Overload							

T.2, T.3, T.4, T.5	TABLE: Steady force test						P
Part/Location	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation	
Internal components / wire	--	--	V.2	10	5	No reduction the clearances and creepage distances.	
Top enclosure	Metal	Min. 1.0	--	250	5	No damage, No hazard	
Side enclosure	Metal	Min. 1.0	--	250	5	No damage, No hazard	
Bottom enclosure	Metal	Min. 1.0	--	250	5	No damage, No hazard	
Supplementary information:							
--							

T.6, T.9	TABLE: Impact test				P
Location/part	Material	Thickness (mm)	Height (mm)	Observation	
Top enclosure	Metal	Min. 1.0	1300	No damage, No hazard	
Side enclosure	Metal	Min. 1.0	1300	No damage, No hazard	
Bottom enclosure	Metal	Min. 1.0	1300	No damage, No hazard	
Supplementary information:					
--					

T.7	TABLE: Drop test				N/A
Location/part	Material	Thickness (mm)	Height (mm)	Observation	
--	--	--	--	--	
Supplementary information:					
--					

T.8	TABLE: Stress relief test				N/A
-----	---------------------------	--	--	--	-----

IEC 62368-1					
Clause	Requirement + Test		Result - Remark		Verdict
Location/Part	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
--	--	--	--	--	--
Supplementary information:					
--					

X	TABLE: Alternative method for determining minimum clearances distances			N/A
Clearance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)	
--	--	--	--	
Supplementary information:				
--				

4.1.2		TABLE: Critical components information				P
Object / part No.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Unit part						
Metal enclosure	Foshan Xuri Optoelectronic Technology Co., Ltd	AA-DJFX-750	Metal, Min. thickness: 1.0 mm	IEC/AS/NZS 62368-1	Tested with appliance	
PCB (Main board)	Guangdong Kingshine Electronic Technology Company Limited	XY-K	V-0, 130°C	UL 94	UL	
Power cord	Dongguan Ubill Electrical Co., Ltd	H05VV-F	3 x 0.75mm ²	IEC 60227-5	VDE	
- Appliance connector	Dongguan Ubill Electrical Co., Ltd	YG-11	250V~, 10A	IEC 60320.1	VDE	
AC inlet	Zhe Jiang Bei Er Jia Electronic Co., Ltd.	ST-A01-003JC	250V~, 10A	IEC/EN 60320-1	VDE	
Power switch	Yueqing Leniu Electronics Co., Ltd	KCD1	AC 250V, 6A, 1E+4, T85	IEC 61058-1	CB (CQC): Certif. No.: CN46511 Report No.: CTIHEA6348	
Internal wire (Primary and Earth wire)	Dongguan Zelongkang Wire Co., Ltd	1015	Rated min. 18 AWG. 600 V. 105°C, min. VW-1	UL 758	UL E330488	
Power supply board part						
PCB	KINGBOARD LAMINATES HOLDINGS LTD	KB-5150, KB-6150	V-0, 130°C	UL 94	UL	
AC connector (CON1)	ZHEJIANG AMA & HIEN TECHNOLOGY CO LTD	VH-3AW2-C	PP, 250V, 7A, 85°C	UL 1977	UL	
Fuse (F1)	Dongguan Hongda Electronic Technology Co., Ltd.	2009	T2A, 250Vac	IEC/EN 60127-1, IEC/EN 60127-3	VDE	
Thermistor (RT1)	HONGZHI ENTERPRISES LTD	2.5D-11	2.5Ω, 5A	UL 1434	UL	
Varistor (ZNR1)	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	10D561K	Min.350Vac, 105°C	IEC 61051-1, IEC 61051-2, IEC 61051-2-2	VDE	
X Capacitor (C1)	CARLI ELECTRONICS CO LTD	MPX	Rated Min.AC250V Max.0.22uF, 100°C X2 type	IEC 60384-14	VDE	

Y Capacitor (CY1, CY2)	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	CE Series	Rated max. 2200pF; Min.AC 250V; Y2 type; 125°C	IEC 60384-14	VDE
Optocoupler (U2)	Everlight Electronics Co., Ltd.	EL817	Double protection optical isolators, providing 4000 vac isolation Dti. ≥0.4mm, ext.cl.=ext.cr.≥7.6 mm, 110°C	IEC/EN 60747-5-5	VDE
Transformer (T1)	Dongguan City Dazhong Elec Co., Ltd	WX-E28030 SB14.2	Class B	IEC/AS/NZS 62368-1	Tested with appliance
-Bobbin	SUMITOMO BAKELITE CO LTD	PM-9820	Phenolic, V-0, 150°C, Min. thickness: 0.7mm	UL 94	UL
-Magnet Wire	DONG GUAN YIDA INDUSTRIAL CO LTD	xUEW/155, QA-x/155	Min. 130°C; MW 79-C	UL 1446	UL
-Triple insulation wire	Furukawa Electric Co., Ltd.	TEX-E	130°C	IEC/EN 62368-1	VDE
-Insulating Tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT-208B	130°C	UL 510A	UL
-Tubing	GREAT HOLDING INDUSTRIAL CO LTD	TFT	200°C, VW-1, min. 300V	UL 224	UL
-Varnish	HANG CHEUNG COATINGS (HUIYANG) LTD	8562*	155°C	UL 1446	UL
Line filter (L1)	FoShan Te Sheng Co., Ltd.	SQ1212	30mH QA-130	IEC/AS/NZS 62368-1	Tested with appliance
-Bobbin	CHANG CHUN PLASTICS CO LTD	T375J(G5)(G6)	Phenolic, V-0, 150°C, min. thickness: 0.51mm.	UL 94, UL 746	UL
-Magnet Wire	DONG GUAN YIDA INDUSTRIAL CO LTD	xUEW/130, QA-x/130	130°C	UL 1446	UL E344055
-Varnish	Rseonac Corporation	WP-2952F-2G	Min. 130°C	UL 1446	UL E72979
Discharged resistance (R*1, R1, R*2, R3)	YAGEO CORP	RV1206	Each max. 1M ohm, min. 1/4W	IEC 62368-1: 2014	CB (UL) Certif. No.: DK-64853-UL
Electronic capacitor (EC1)	Dongguan Ruofei Electronics Co., LTD	CD110 Series	Min.450V,Min.22 uF,105°C	IEC/AS/NZS 62368-1	Tested with appliance

Electronic capacitor (EC2)	Dongguan Ruofei Electronics Co., LTD	CD110 Series	Min.450V,Min.10 uF,105°C	IEC/AS/NZS 62368-1	Tested with appliance
Electronic capacitor (EC3)	Dongguan Ruofei Electronics Co., LTD	CD110 Series	Min.50V,Min.10uF, 105°C	IEC/AS/NZS 62368-1	Tested with appliance
Bridge Diode (BD1)	ASEMI TECHNOLOGY CO., LTD	ABS210	Min.1000V, Min.2A	IEC/AS/NZS 62368-1	Tested with appliance
MOSFET (Q1)	UNISONIC TECHNOLOGIES CO., LTD	4N65F4	Min.650V, Min.4A	IEC/AS/NZS 62368-1	Tested with appliance
Insulation sheet	Shenzhen Bornsun New Material co., Ltd	BH-PH95	V-0, 80°C	UL 94	UL E256822
Internal wire (Secondary)	Xin Sheng Terminal Mfg Ltd	1015	Rated min. 18 AWG. 600 V. 105 °C, min. VW-1	UL 758	UL E328303
DC connector (J9)	ZHEJIANG AMA & HIEN TECHNOLOGY CO LTD	VHC-2AW-D	PP, 250V, 7A, 85°C	UL 1977	UL E231546
Supplementary information:					
¹⁾ Provided evidence ensures the agreed level of compliance. See OD-2039. ²⁾ Description line content is optional. Main line description needs to clearly detail the component used for testing.					

Photos



Overview



Overview



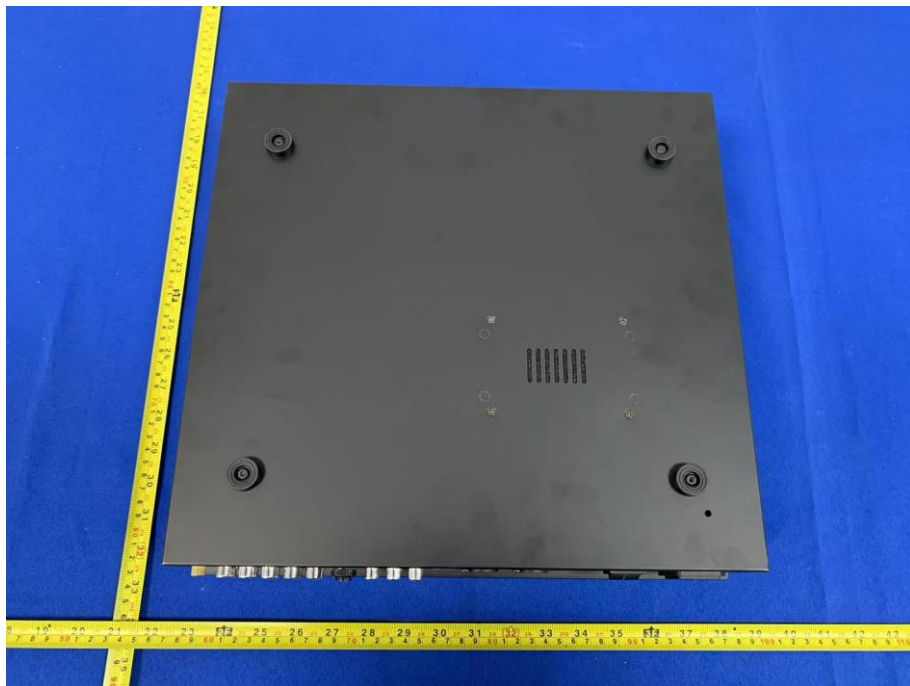
Overview



Overview



Overview



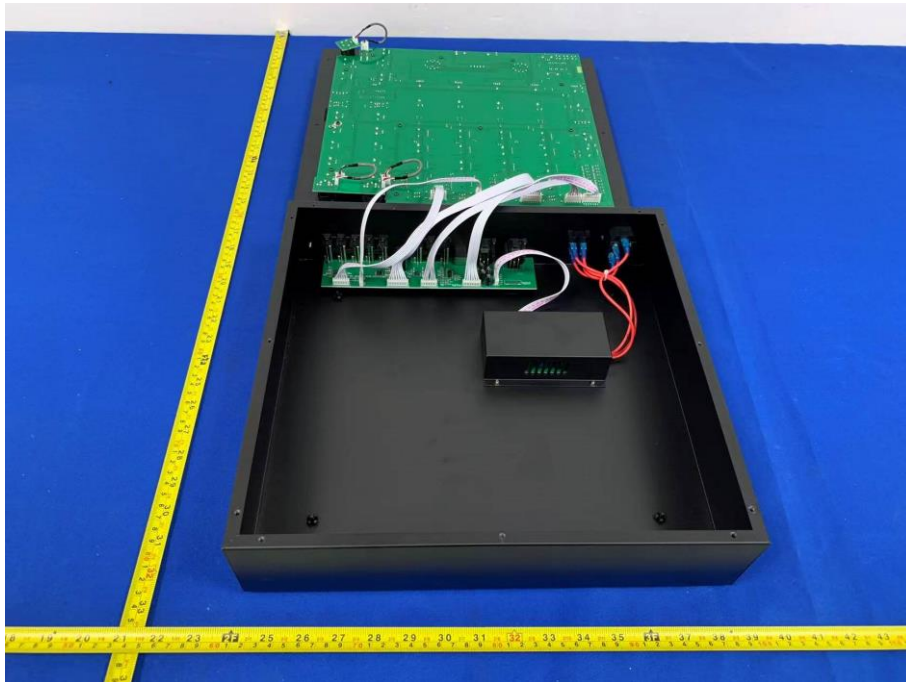
Overview



Overview



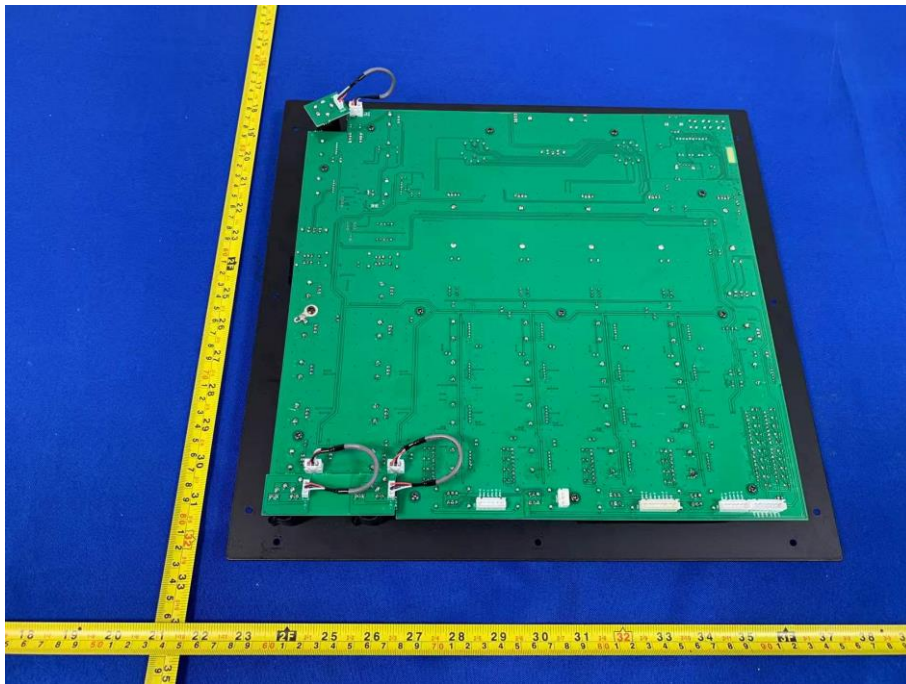
Overview



Internal view



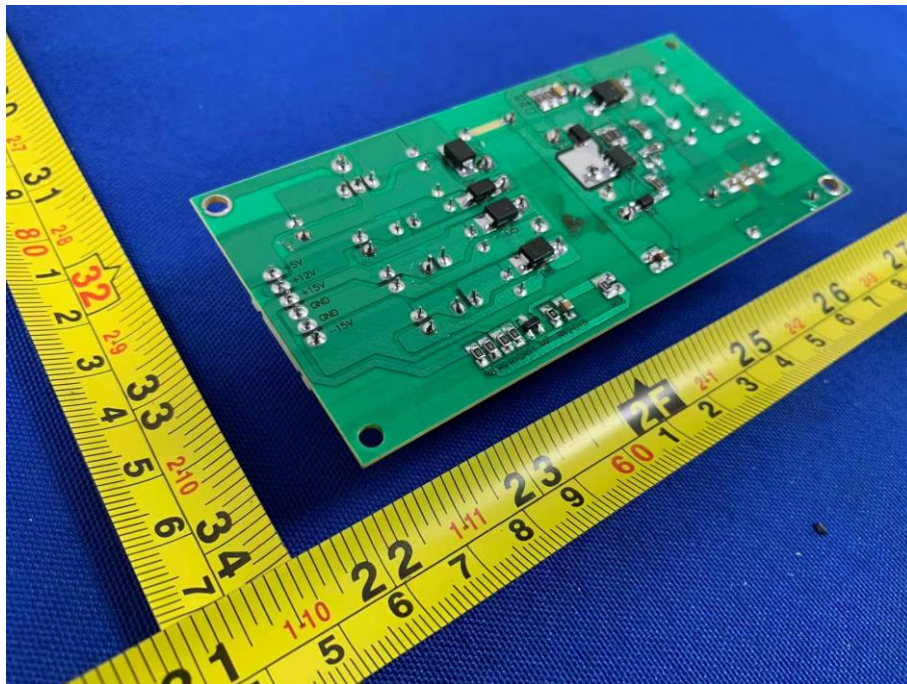
Internal view



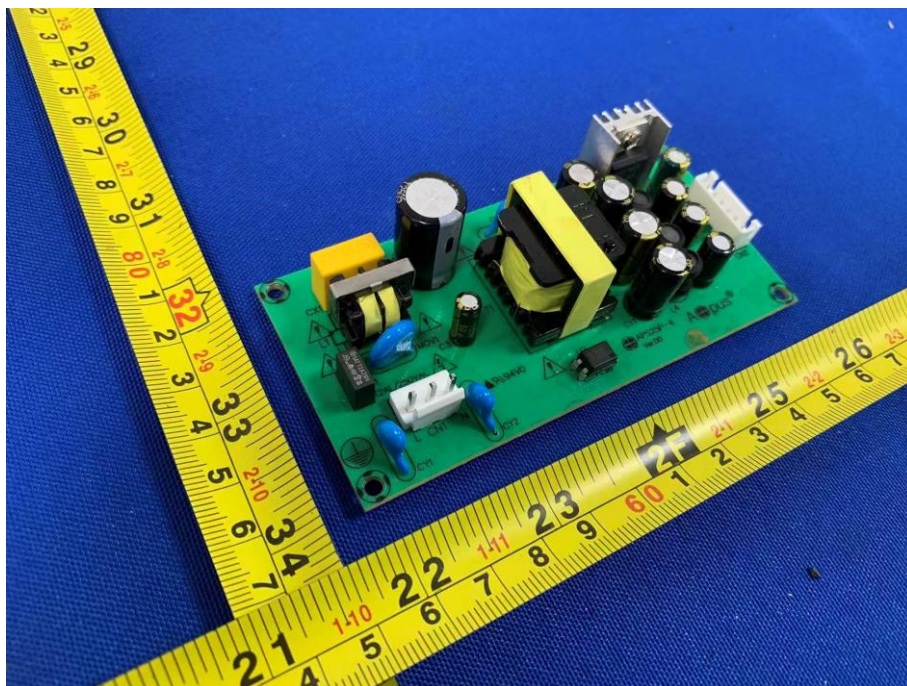
Internal view



Internal view



Power supply board view



Power supply board view