

TEST REPORT IEC 62368-1

Audio/video, information and communication technology equipment Part 1: Safety requirements

Report Number.: AOC250627002S

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Name of Testing Laboratory Shenzhen AOCE Electronic Technology Service Co., Ltd

preparing the Report: Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial

Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China

Applicant's name.....: Wuhan Shuchuang Technology Co., Ltd.

Address: No. 745 Heping Avenue, Wuchang District, Wuhan City, Hubei

Province

Test specification:

DIFFERENCES

Test procedure: Test report

Non-standard test method.....: N/A

TRF template used: IECEE OD-2020-F1:2023, Ed.1.6

Test Report Form No.....: IEC62368_1F

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Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

Test item description Data a			ta acquisition unit		
Trade Mark: N/A		N/A	N/A		
Manufacturer: Wuh		Wuhar	n Shuchuang Technology Co., L	.td.	
			5 Heping Avenue, Wuchang Di	strict, Wuhan City, Hubei	
		Provin			
	el/Type reference:	CJQ-0			
Ratir	ngs:	Input: 2	220-240V~, 50Hz, 3A, 25W		
Daar	ansible Testing Laboratom (as an	!:		-ting looting(s).	
Resp	oonsible Testing Laboratory (as ap	рпсав	ie), testing procedure and tes	sting location(s):	
\boxtimes	Testing Laboratory:		Shenzhen AOCE Electronic T	echnology Service Co., Ltd	
Testi	ing location/ address	:	Room 202, 2nd Floor, No.12tl Industrial Park, Fuhai Street, Guangdong, China		
Test	ed by (name, function, signature) .	:	Bill Hu	and the	
			Technical Engineer	DW NIC	
Appr	oved by (name, function, signatur	e) :	Robin Liu	Fill Hu Robin. Lin	
			Technical Manager	KOOM. NAC	
	Testing procedure: CTF Stage 1:				
Testi	ing location/ address	:			
	ed by (name, function, signature) .				
	oved by (name, function, signatur				
	, , ,	,			
	Testing procedure: CTF Stage 2:				
Testi	ing location/ address	:			
Test	ed by (name + signature)	:			
Witn	essed by (name, function, signatu	re).:			
Appr	oved by (name, function, signatur	e) :			
	Testing procedure: CTF Stage 3:				
H	Testing procedure: CTF Stage 3:				
<u> </u>					
Testing location/ address:					
Tested by (name, function, signature):					
	essed by (name, function, signatu				
Approved by (name, function, signature):					
Supervised by (name, function, signature) :					

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Attachment No.1: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Attachment No.2: Photo document.

Summary of testing:

Tests performed (name of test and test clause):

- IEC 62368-1:2023

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): EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES.

☑ The product fulfils the requirements of EN IEC 62368-1:2024+A11:2024.

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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.

Data acquisition unit

CJQ-01

Input: 220-240V~, 50Hz, 3A, 25W



Manufacturer: Wuhan Shuchuang Technology Co., Ltd.

Address: No. 745 Heping Avenue, Wuchang District, Wuhan City, Hubei

Province

Made in China

Notes:

Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

Test item particulars:	
Product group:	
Classification of use by:	☐ Ordinary person ☐ Children likely present ☐ Instructed person
Supply connection:	☐ Skilled person ☐ AC mains ☐ DC mains ☐ not mains connected:
Supply tolerance:	☐ ES1 ☐ ES2 ☐ ES3 ☐ +10%/-10% ☐ +20%/-15%
Supply connection – type:	 + %/ - % None pluggable equipment type A -
	☐ direct plug-in ☐ pluggable equipment type B - ☐ non-detachable supply cord ☐ appliance coupler
	☐ permanent connection ☐ mating connector ☐ other Net directly connected to the mains
Considered current rating of protective device	☐ other: Not directly connected to the mains☐ 16 A for building;
:	Location:
Equipment mobility::	 N/A movable direct plug-in wall/ceiling-mounted SRME/rack-mounted
Overvoltage category (OVC):	☐ other: ☐ OVC IV ☐ other: Not directly connected to the mains
Class of equipment:	☐ Class II ☐ Class III
Special installation location:	Not classified ☐N/A ☐restricted access areaoutdoor location ☐other:
Pollution degree (PD)::	□ PD 1 □ PD 2 □ PD 3
Manufacturer's specified T _{ma} :	35 °C Outdoor: minimum °C
IP protection class:	IPX0 □ IP
Power systems:	
Altitude during operation (m)	
Actitude of test laboratory (III)	2355 III 01 1005 [] III

Mass of equipment (kg)::	≤7kg		
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:	2025-06-05		
Date (s) of performance of tests:	2025-06-05 to 2025-06-27		
General remarks:			
The tested sample(s) and the sample information are	e provided by the client		
"(See Enclosure #)" refers to additional information "(See appended table)" refers to a table appended to	appended to the report. to the report. nal Differences and Special National Conditions, if any,		
regulation was withdrawn or invalid.	the report defined retention period unless standard or		
When determining for test conclusion, measuremen	nt uncertainty of tests has been considered.		
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 ☐ Not applicable		
When differences exist; they shall be identified in	n the General product information section.		
Name and address of factory (ies): Wuhan Shuchuang Technology Co., Ltd. No. 745 Heping Avenue, Wuchang District, Wuhan City, Hubei Province			
General product information and other remarks 1. This product is a Data acquisition unit which is us			
2. Maximum ambient temperature is 35°C.			
3. Certified Power supply is used.			

Clause	Possible Hazard				
5	Electrically-caused injury				
Class and Energy Source	Body Part		Safeguards		
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R	
ES3: Primary circuits (AC mains, Switching Power Supply primary parts)	Ordinary	Earthed metal enclosure	See 5.4.2, 5.4.3	N/A	
ES1: Output of power board	Ordinary	N/A	N/A	N/A	
6	Electrically-caused fire				
Class and Energy Source	Material part		Safeguards		
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S	
PS3	Power supply	N/A	N/A	N/A	
PS3	PCB	N/A	N/A	N/A	
PS3	Internal wiring	N/A	N/A	N/A	
PS3	Other combustible components / materials	N/A	N/A	N/A	
7	Injury caused by hazardous	substances			
Class and Energy Source	Body Part		Safeguards		
(e.g. Ozone)	(e.g., Skilled)	В	S	R	
N/A	N/A	N/A	N/A	N/A	
8	Mechanically-caused injury				
Class and Energy Source	Body Part		Safeguards		
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R	
MS1: Equipment Mass	Ordinary	building-in equipment	N/A	N/A	
MS1: Sharp edges and corners	Ordinary	N/A	N/A	N/A	
9	Thermal burn				
Class and Energy Source	Body Part		Safeguards		
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R	
TS1: All accessible parts	Ordinary	N/A	N/A	N/A	
10	Radiation				
Class and Energy Source Body Part Safeguards					
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	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

 \boxtimes ES \boxtimes PS \boxtimes MS \boxtimes TS \boxtimes RS

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Clause	Requirement + Test	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	(See appended Table 4.1.2.)	Р
4.1.2	Use of components	Safeguard components are certified to IEC and/or national standards and are used correctly within their ratings.	Р
4.1.3	Equipment design and construction		Р
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)	Р
4.4.3	Safeguard robustness		Р
4.4.3.1	General		Р
4.4.3.2	Steady force tests	(See Clause T.5)	Р
4.4.3.3	Drop tests		N/A
4.4.3.4	Impact tests		N/A
4.4.3.5	Internal accessible safeguard tests	(See Clause T.6)	Р
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		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness		N/A
4.4.4	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks		N/A
4.5	Explosion	•	N/A
4.5.1	General		N/A
4.5.2	No explosion during normal/abnormal operating condition		N/A
	No harm by explosion during single fault conditions		N/A
4.6	Fixing of conductors		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Fix conductors not to defeat a safeguard		N/A
	Compliance is checked by test:		N/A
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		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 conduc	ctive object	N/A
4.10	Component requirements		N/A
4.10.1	Disconnect Device	(See Annex L)	N/A
4.10.2	Switches and relays	(See Annex G)	N/A
4.10.3	Mains power supply cords		N/A
4.10.4	Batteries and their protection circuits		N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sources		Р
5.2.2	ES1, ES2 and ES3 limits	(See appended table 5.2)	Р
5.2.2.2	Steady-state voltage and current limits:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits	Evaluated in approved SPS.	N/A
5.2.2.4	Single pulse limits		N/A
5.2.2.5	Limits for repetitive pulses		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.2.2.6	Ringing signals		N/A
5.2.2.7	Audio signals		Р
5.3	Protection against electrical energy sources	- L	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons		N/A
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits		N/A
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		N/A
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2	Contact requirements		N/A
	Test with test probe from Annex V		
5.3.2.2 a)	Air gap – electric strength test potential (V)	(See appended table 5.4.9)	N/A
5.3.2.2 b)	Air gap – distance (mm)	>0.2	Р
5.3.2.3	Compliance		Р
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	Material is non-hygroscopic		Р
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)	Р
5.4.1.5	Pollution degrees	PD2	Р
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
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage	Evaluated in approved SPS	N/A
5.4.1.9	Insulating surfaces		N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		N/A
5.4.1.10.2	Vicat test		N/A
5.4.1.10.3	Ball pressure test:	Evaluated in approved SPS	N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
5.4.2	Clearances	Approved SPS used, also see appended table 5.4.2.2, 5.4.2.4 and 5.4.3	Р	
5.4.2.1	General requirements		Р	
	Clearances in circuits connected to AC Mains, Alternative method		N/A	
5.4.2.2	Procedure 1 for determining clearance		N/A	
	Temporary overvoltage		—	
5.4.2.3	Procedure 2 for determining clearance		N/A	
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		N/A	
5.4.2.5	Multiplication factors for clearances and test voltages		N/A	
5.4.2.6	Clearance measurement:	(See appended table 5.4.2)	N/A	
5.4.3	Creepage distances	Approved SPS used, also see appended table 5.4.2.2, 5.4.2.4 and 5.4.3	N/A	
5.4.3.1	General		N/A	
5.4.3.3	Material group:	Illa or Illb	_	
5.4.3.4	Creepage distances measurement	(See appended table 5.4.3)	Р	
5.4.4	Solid insulation	Approved SPS used	N/A	
5.4.4.1	General requirements		N/A	
5.4.4.2	Minimum distance through insulation		N/A	
5.4.4.3	Insulating compound forming solid insulation		N/A	
5.4.4.4	Solid insulation in semiconductor devices		N/A	
5.4.4.5	Insulating compound forming 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	

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Clause	Requirement + Test	Result - Remark	Verdict
	Number of layers (pcs):		N/A
5.4.4.6.3	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		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E _P , K _R , d, V _{PW} (V):		N/A
	Alternative by electric strength test, tested voltage (V), K _R :		N/A
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 Ω):		N/A
	Electric strength test		N/A
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		N/A
	Relative humidity (%), temperature (°C), duration (h)		_
5.4.9	Electric strength test		N/A
5.4.9.1	Test procedure for type test of solid insulation:		N/A
5.4.9.2	Test procedure for routine test		N/A
5.4.10	Safeguards against transient voltages from 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

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.11	Separation between external circuits and earth		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		Р
5.5.1	General		Р
5.5.2	Capacitors and RC units	Evaluated in approved SPS.	Р
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:		N/A
5.5.3	Transformers	Evaluated in approved SPS.	Р
5.5.4	Optocouplers	Evaluated in approved SPS.	Р
5.5.5	Relays		N/A
5.5.6	Resistors		N/A
5.5.7	SPDs		N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable:		N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment		N/A
	RCD rated residual operating current (mA):		_
5.6	Protective conductor	1	Р
5.6.2	Requirement for protective conductors		Р

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Clause	Requirement + Test	Result - Remark	Verdict
5.6.2.1	General requirements	No switches, current limiting devices or over current protective devices use in Protective conductors.	P
5.6.2.2	Colour of insulation	The insulation is green-andyellow.	Р
5.6.3	Requirement for protective earthing conductors		Р
	Protective earthing conductor size (mm²):	(see table 4.1.2)	—
	Protective earthing conductor serving as a reinforced safeguard		Р
	Protective earthing conductor serving as a double safeguard		N/A
5.6.4	Requirements for protective bonding conductors		Р
5.6.4.1	Protective bonding conductors		Р
	Protective bonding conductor size (mm²):	(see table 4.1.2)	_
5.6.4.2	Protective current rating (A):	16A	Р
5.6.5	Terminals for protective conductors		Р
5.6.5.1	Terminal size for connecting protective earthing conductors (mm):		Р
	Terminal size for connecting protective bonding conductors (mm):		Р
5.6.5.2	Corrosion		Р
5.6.6	Resistance of the protective bonding system		Р
5.6.6.1	Requirements		Р
5.6.6.2	Test Method	(See appended table 5.6.6)	Р
5.6.6.3	Resistance (Ω) or voltage drop:	(See appended table 5.6.6)	Р
5.6.7	Reliable connection of a protective earthing conductor		N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm²):		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		Р
5.7.2	Measuring devices and networks		Р
5.7.2.1	Measurement of touch current	(See appended table 5.7.4)	Р

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Clause	Requirement + Test	Result - Remark	Verdict	
			T	
5.7.2.2	Measurement of voltage	(See appended table 5.7.4)	Р	
5.7.3	Equipment set-up, supply connections and earth connections		Р	
5.7.4	Unearthed accessible parts:	Touch current at earthed accessible conductive parts is not exceeding ES2 limits. (See appended table 5.7.4)	Р	
5.7.5	Earthed accessible conductive parts:	(See appended table 5.7.5)	Р	
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		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	s	N/A	
	Mains terminal ES		N/A	
	Air gap (mm):		N/A	

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS	Classification of PS and PIS	
6.2.2	Power source circuit classifications (See appended table 6.2.2)		Р
6.2.3	Classification of potential ignition sources	See below.	Р
6.2.3.1	Arcing PIS	All conductors and devices are considered as Resistive PIS.	Р
6.2.3.2	Resistive PIS	All conductors and devices are considered as Resistive PIS.	Р
6.3	Safeguards against fire under normal operating and abnormal operating conditions		Р

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Clause	Requirement + Test	Result - Remark	Verdict
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)	Р
	Combustible materials outside fire enclosure:		N/A
6.4	Safeguards against fire under single fault condition	ns	Р
6.4.1	Safeguard method	Method of Control fire spread is used.	Р
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.	Р
6.4.5.2	Supplementary safeguards	All component in PS2 and PS3 is mounted on V-0 Class material of printed boards and comply with the requirements of the relevant IEC components standard, see appended table 4.1.2 and annex G.	Р
6.4.6	Control of fire spread in PS3 circuits	All component in PS3 complies with clause (V-0 class material) complies with 6.4.8, see appended table 4.1.2 and annex G.	Р
6.4.7	Separation of combustible materials from a PIS		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 as a fire enclosure.	Р
6.4.8.2	Fire enclosure and fire barrier material properties	See the following details.	Р
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.	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
		1	
6.4.8.3.1	Fire enclosure and fire barrier openings		N/A
6.4.8.3.2	Fire barrier dimensions		N/A
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		N/A
	Openings dimensions (mm):	No openings	N/A
	Flammability tests for the bottom of a fire enclosure		N/A
	Instructional Safeguard		N/A
6.4.8.3.5	Side openings and properties	No openings	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	Р
6.4.9	Flammability of insulating liquid		N/A
6.5	Internal and external wiring	•	N/A
6.5.1	General requirements	The material of VW-1 on internal wiring were considered compliance equal to equivalent to IEC/TS 60695-11-21	Р
		relevant standards	
6.5.2	Requirements for interconnection to building wiring		N/A
6.5.3	Internal wiring size (mm²) for socket-outlets:	See appended table 4.1.2	Р
6.6	Safeguards against fire due to the connection to	additional equipment	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 or personal protective equipment (PPE)	
	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

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Clause	Requirement + Test	Result - Remark	Verdict

8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classifications		Р
8.3	Safeguards against mechanical energy sources		Р
8.4	Safeguards against parts with sharp edges and co	orners	Р
8.4.1	Safeguards		N/A
	Instructional Safeguard		N/A
8.4.2	Sharp edges or corners	MS1	Р
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
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

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Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
8.6.1	General		N/A
	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 struc	ture	N/A
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)		

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Clause	Requirement + Test	Result - Remark	Verdict
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
0.10.0	Loading force applied (N):		N/A
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability		N/A
0.10.0	Force applied (N):		14/74
8.10.6	Thermoplastic temperature stability		N/A
8.11	Mounting means for slide-rail mounted equipment (S	DME\	N/A
8.11.1	General	DRIVIE)	N/A
8.11.2	Requirements for slide rails		N/A
0.11.2	Instructional Safeguard:		N/A
0.44.0			
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):		_
9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits		Р
9.3.1	Touch temperatures of accessible parts A	all accessible surfaces are lassified as TS1 (See ppended table 5.4.1.4, 9.3, 8.1.5, B.2.6)	P
9.3.2		See appended table 5.4.1.4, .3, B.1.5, B.2.6)	Р
9.4	Safeguards against thermal energy sources		Р

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Clause	Requirement + Test	Result - Remark	Verdict	
9.5	Requirements for safeguards		Р	
9.5.1	Equipment safeguard		Р	
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		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification	See Energy source identification and classification table.	Р
	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)		Р
10.4.1	General requirements	LED indicator as low power application.	Р
	Instructional safeguard provided for accessible radiation level needs to exceed		Р
	Risk group marking and location:	LED indicators are considered as RS1.	Р
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	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 ≥ 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,		N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Р
B.1	General		Р
B.1.5	Temperature measurement conditions (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)		Р
B.2	Normal operating conditions		Р

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earphones, etc.)

Cordless listening devices

Corded listening devices with analogue input

Corded listening devices with digital input

Listening device input voltage (mV)....::

Max. acoustic output $L_{Aeq,T}$, dB(A)

Max. acoustic output $L_{Aeq,T}$, dB(A)....:

10.6.6.1

10.6.6.2

10.6.6.3

N/A

N/A

N/A N/A

N/A

N/A

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Clause	Requirement + Test	Result - Remark	Verdict
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
	Audio Amplifiers and equipment with audio amplifiers:		N/A
B.2.3	Supply voltage and tolerances	+10% and -10% for a.c. mains.	Р
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		Р
B.3.1	General		Р
B.3.2	Covering of ventilation openings		N/A
	Instructional safeguard:		N/A
B.3.3	DC mains polarity test		N/A
B.3.4	Setting of voltage selector		N/A
B.3.5	Maximum load at output terminals	(See appended tables B.3, B.4)	Р
B.3.6	Reverse battery polarity		N/A
B.3.7	Audio amplifier abnormal operating conditions		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions:	(See appended tables B.3, B.4)	Р
B.4	Simulated single fault conditions		Р
B.4.1	General		Р
B.4.2	Temperature controlling device		N/A
B.4.3	Blocked motor test		N/A
B.4.4	Functional insulation	(See appended tables B.3, B.4)	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended tables B.3, B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended tables B.3, B.4)	Р
B.4.4.3	Short circuit of functional insulation on 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)	Р
B.4.6	Short circuit or disconnection of passive components	(See appended tables B.3, B.4)	Р
B.4.7	Continuous operation of components		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
B.4.8	Compliance during and after single fault conditions	(See appended tables B.3, B.4)	Р
B.4.9	Battery charging and discharging under single fault conditions		N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV rac	liation	N/A
C.1.2	Requirements		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 CONTAININ	NG AUDIO AMPLIFIERS	Р
E.1	Electrical energy source classification for audio signals		Р
	Maximum non-clipped output power (W):		_
	Rated load impedance (Ω):		_
	Open-circuit output voltage (V):		_
	Instructional safeguard:		
E.2	Audio amplifier normal operating conditions		Р
	Audio signal source type:		_
	Audio output power (W):		_
	Audio output voltage (V):		_
	Rated load impedance (Ω):		_
	Requirements for temperature measurement		Р
E.3	Audio amplifier abnormal operating conditions		Р
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND II SAFEGUARDS	NSTRUCTIONAL	Р
F.1	General		Р

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Clause	Requirement + Test	Result - Remark	Verdict

	Language:	English	_
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1		N/A
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific		Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	The equipment marking is located on the surface and is easily visible.	Р
F.3.2	Equipment identification markings	See below.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	Р
F.3.2.2	Model identification:	See copy of marking plate	Р
F.3.3	Equipment rating markings	See below.	Р
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains		Р
F.3.3.3	Nature of the supply voltage:	See copy of marking plate	Р
F.3.3.4	Rated voltage:	See copy of marking plate	Р
F.3.3.5	Rated frequency:	See copy of marking plate	N/A
F.3.3.6	Rated current or rated power:	See copy of marking plate	Р
F.3.3.7	Equipment with multiple supply connections		N/A
F.3.4	Voltage setting device		N/A
F.3.5	Terminals and operating devices		N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings		N/A
F.3.5.2	Switch position identification marking:		N/A
F.3.5.3	Replacement fuse identification and rating markings		N/A
	Instructional safeguards for neutral fuse:		N/A
F.3.5.4	Replacement battery identification marking:		N/A
F.3.5.5	Neutral conductor terminal		N/A
F.3.5.6	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification		N/A
F.3.6.1	Class I equipment		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
F.3.6.1.1	Protective earthing conductor terminal:	The symbol with " is located adjacent to earthed terminal of power supply	Р
F.3.6.1.2	Protective bonding conductor terminals:		N/A
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.	Р
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.	Р
F.4	Instructions		Р
	a) Information prior to installation and initial use	Relevant safety caution texts and installation instruction are available	Р
	b) Equipment for use in locations where children not likely to be present		N/A
	c) Instructions for installation and interconnection	Relevant safety caution texts and installation instruction are available.	Р
	d) Equipment intended for use only in restricted access area		N/A
	e) Equipment intended to be fastened in place		N/A
	f)		N/A
	g) Protective earthing used as a safeguard		N/A
	h) Protective conductor current exceeding ES2 limits		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	a)Graphic symbols used on equipment		N/A
	b) Permanently connected equipment not provided with all-pole mains switch		N/A
	c) Replaceable components or modules providing safeguard function		N/A
	d)Equipment containing insulating liquid		N/A
	e) Installation instructions for outdoor equipment		N/A
F.5	Instructional safeguards		N/A
G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General		N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.1.3	Test method and compliance		N/A
G.2	Relays		N/A
G.2.1	Requirements		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		N/A
G.3.1	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
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

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Clause	Requirement + Test	Result - Remark	Verdict
	In-out to		1
G.3.3	PTC thermistors		N/A
G.3.4	Overcurrent protection devices	Evaluated in approved SPS.	Р
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		N/A
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		N/A
G.5	Wound components		N/A
G.5.1	Wire insulation in wound components		N/A
G.5.1.2	Protection against mechanical stress		N/A
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		N/A
G.5.3.1	Compliance method		N/A
	Position		N/A
	Method of protection		N/A
G.5.3.2	Insulation		N/A
	Protection from displacement of windings:		
G.5.3.3	Transformer overload tests		N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding temperatures		N/A
G.5.3.3.3	Winding temperatures - alternative test method		N/A
G.5.3.4	Transformers using FIW		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
05244	Compresi		NI/A
G.5.3.4.1	General		N/A
0.7010	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		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
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
	Operating voltage:		_
G.6	Wire Insulation	1	N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation		N/A
G.7	Mains supply cords		Р
G.7.1	General requirements		Р
	Type:	(See appended table 4.1.2)	_

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Clause	Requirement + Test	Result - Remark	Verdict
G.7.2	Cross sectional area (mm² or AWG):	Complied with Table G.7.	Р
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	·	Р
G.7.3.2	Cord strain relief		Р
G.7.3.2.1	Requirements		Р
	Strain relief test force (N):	100N	Р
G.7.3.2.2	Strain relief mechanism failure		Р
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		Р
G.7.4	Cord Entry		Р
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, D (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	1	N/A
G.8.1	General requirements		N/A
G.8.2	Safeguards against fire		N/A
G.8.2.1	General		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		N/A
	IC limiter output current (max. 5A):		_
	Manufacturers' defined drift:		_
G.9.2	Test Program		N/A
G.9.3	Compliance		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.10	Resistors		N/A
G.10.1	General		N/A
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		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers	•	N/A
	Optocouplers comply with IEC 60747-5-5 with specifics		N/A
	Type test voltage V _{ini,a} :		
	Routine test voltage, V _{ini, b} :		
G.13	Printed boards		Р
G.13.1	General requirements		Р
G.13.2	Uncoated printed boards		Р
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		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.13.6.2	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

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Clause	Requirement + Test	Result - Remark	Verdict
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:		_
	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
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		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V):		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		Р
J.1	General		Р
	Winding wire insulation:	Approved 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 (mm²):		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 mecha	nism	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
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		Р
L.1	General requirements	Plug used for disconnect device	Р

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Clause	Requirement + Test	Result - Remark	Verdict
L.2	Permanently connected equipment		N/A

L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized	No accessible parts on the supply side of the disconnect device.	Р
L.4	Single-phase equipment	The disconnect device disconnect both poles simultaneously.	Р
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		Р
L.8	Multiple power sources		N/A
	Instructional safeguard:		N/A
М	EQUIPMENT CONTAINING BATTERIES AND THEI	R 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
	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 battery	portable secondary lithium	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

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Clause	Requirement + Test Result - Remark	Verdict
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 (m³/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
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 Vz (m³/s):	
M.8.2.3	Correction factors:	

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Clause	Requirement + Test Result - Remark	Verdict
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:	_
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
	Value of <i>X</i> (mm):	_
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS	N/A
P.1	General	N/A
P.2	Safeguards against entry or consequences of entry of a foreign object	N/A
P.2.1	General	N/A
P.2.2	Safeguards against entry of a foreign object	N/A
	Location and Dimensions (mm):	_
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
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	Conditioning To (°C)		
	Conditioning, T _C (°C):		_
	Duration (weeks):		
Q	CIRCUITS INTENDED FOR INTERCONNECTION V	WITH BUILDING WIRING	P
Q.1	Limited power sources		Р
Q.1.1	Requirements		Р
	a) Inherently limited output	(See appended table Q.1)	Р
	b) Impedance limited output		N/A
	c) Regulating network limited output		N/A
	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)	Р
	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
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire barr where the steady state power does not exceed 4		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

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Clause	Requirement + Test	Result - Remark	Verdict		
	- Material extinguishes within 30s		N/A		
	- No burning of layer or wrapping tissue		N/A		
S.2	Flammability test for fire enclosure and fire barrie	□ er integrity	N/A		
	Samples, material				
	Wall thickness (mm)				
	Conditioning (°C)				
S.3	Flammability test for the bottom of a fire enclosu	re	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				
	Samples, material:		_		
	Wall thickness (mm):		_		
	Conditioning (°C):				
Т	MECHANICAL STRENGTH TESTS	1	Р		
T.1	General		Р		
T.2	Steady force test, 10 N:	(See appended table T.2)	Р		
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)	Р		
T.6	Enclosure impact test	(See appended table T.6)	Р		
	Fall test		Р		
	Swing test		Р		
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	1	N/A		
	Number of particles counted:		N/A		
T.11	Test for telescoping or rod antennas	1	N/A		

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Clause	Requirement + Test	Result - Remark	Verdict
		·	

	Torque value (Nm):		N/A
U	MECHANICAL STRENGTH OF CATHODE RAY TUB AGAINST THE EFFECTS OF IMPLOSION	ES (CRT) AND PROTECTION	N/A
U.1	General		N/A
	Instructional safeguard :		N/A
U.2	Test method and compliance for non-intrinsically p	rotected CRTs	N/A
U.3	Protective screen		N/A
٧	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment		N/A
V.1.1	General		N/A
V.1.2	Surfaces and openings tested with jointed test probes		N/A
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		N/A
Х	ALTERNATIVE METHOD FOR DETERMINING CLEA IN CIRCUITS CONNECTED TO AN AC MAINS NOT E V RMS)		N/A
	Clearance:		N/A
Υ	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
Y.3.2	Test apparatus		N/A
	Material estad estad estada etas en la companya		N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	Į.	
Y.3.3 Y.3.4	Test procedure:		N/A
	·		N/A N/A
Y.3.4	Test procedure		

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Clause	Requirement + Test	Result - Remark	Verdict		
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				
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		

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Clause	Requirement + Test		Result - Remark	Verdict

5.2	TABLE: Classification	on of electrical en	ergy sourc	es			Р
Supply	Location (e.g. Test conditions circuit		Parameters				ES Class
Voltage	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class
		Normal	264Vac				
264Vac	Primary circuits supplied by a.c.	Abnormal – See appended table B.3					ES3 (declar
	mains supply	Single fault – See appended table B.4	e appended		ed)		
	Output of supply board	Normal	24.05Vdc				
264Vac		Abnormal – See appended table B.3					ES1 (appro
	Joans	Single fault – See appended table B.4					PSU)
		Normal	5.01Vdc				
264Vac	USB Output "+" to	Abnormal – See appended table B.3	5.01Vdc				ES1
		Single fault – See appended table B.4	5.01Vdc				

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				
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments
Supplement	Supplementary information: N/A				

5.4.1.10.2	5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics		
Method :: ISO		ISO 306 / B50	_

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Clause	Requirement + Test	Result - Remark	Verdict

Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)		
Supplementary information: N/A					

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics							
Allowed impression diameter (mm): ≤ 2 mm								
Object/Part No./Material Manufacturer/trademark Thickness ((mm)	Test temperature (°C)		ression eter (mm)		
Supplementa	Supplementary information: N/A							

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance								
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)
Primary components to earthed part (B)	<420	<250	60	1.5	>3.5		2.5	>5.5
Primary components to secondary part (R)	<420	<250	60	3.0	>3.5		5.0	>5.5

Supplementary information:

- 1) Only for frequency above 30 kHz
- 2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)

5.4.4.2	TABLE: Minimum	ABLE: Minimum distance through insulation								
Distance through insulation (DTI) at/of		Peak voltage (V)	voltage (V) Insulation		Measured DTI (mm)					
Supplement	Supplementary information: N/A									

5.4.4.9	TABLE: Solid insulation at frequencies >30 kHz							
Insulation material		E _P	Frequency (kHz)	K R	Thickness d (mm)	Insulation	V _{PW} (Vpk)	
Supplementary information: N/A								

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Clause	Requirement + Test	Result - Remark	Verdict

5.4.9	TABLE: Electric strength tests	TABLE: Electric strength tests						
Test voltage	applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)		eakdown es / No			
L/N to metal	enclosure	DC	2500		No			
L/N to Main	board	DC	4000		No			
Supplement	ary information: N/A							

5.5.2.2	TABLE:	TABLE: Stored discharge on capacitors						
Location		Supply voltage (V)	• , , ,		Measured voltage (Vpk)			
Supplementary information:								
X-capacitor	s installed	for testing:						
bleeding resistor rating:								
□ 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							
Location		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)			
GND pin of AC Inlet and the farthest metal enclosure		32	2		(0.025		
Supplement	Supplementary information: N/A							

5.7.4	TABLE	: Unearthed acces	sible parts				Р
Location		Operating and	Supply	F		ES	
		fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current Freq. (A _{rms} or A _{pk}) (Hz)		class
USB output terminal "+" to "-"		Normal	264Vac	Max. 5.01Vdc		60	ES1
				Max. 5.01Vdc		60	ES1
		Single fault – see table B.3, B.4 for detail	264Vac	Max. 5.01Vdc		60	ES1

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				IEC 623	368-1					
Clause	Requi	rement + Test				Resi	ult - Remark			Verdict
	•	1						1		1
		Normal		264Vac			0.056mApk		60	ES1
L/N to acces	sible	Abnormal – s table B.3, B.4 detail		264Vac	0.056m/		0.056mA	.pk	60	ES1
part		Single fault – s table B.3, B.4 detail		264Vac			0.062mA	.pk	60	ES1
Supplementa	ary infor	mation:					1	•		1
Abbreviation	: SC= s	short circuit; OC	= op	en circuit						
5.7.5	TABLE	E: Earthed acc	essi	ble conductive	part					Р
Supply voltage (V):			.:	264V						_
Phase(s):			.:	[X] Single Phas	se; [] Thre	e Pha	ase: [] Delta	[]Wye		_
Power Distribution System:			.:	⊠ TN □	⊠TN □TT □IT				_	
Location				Fault Condition 60990 clause 6		То	ouch current (mA)		Comm	ent
L/N to ea	rthed a	ccessible parts		1			0.152		ES1	
Supplementa	ary Info	rmation: N/A				I				
5.8	TABLE	E: Backfeed sa	fegu	uard in battery b	packed up	supp	olies			N/A
Location		Supply voltage (V)	Оре	erating and fault condition	Time (s)		Open-circuit voltage (V)	Touc		ES Class
Supplementa Abbreviation	-	rmation: hort circuit, OC	= op	en circuit		·			·	
		· · · · · · · · · · · · · · · · · · ·	<u> </u>							
6.2.2	TABLE	E: Power source	e ci	rcuit classificat	ions					N/A
Location		erating and faul	t	Voltage (V)	Current ((A)	Max. Power ¹⁾ (W)	Time	(S)	PS class
Supplementa	ary infor	mation:			•			•	•	
Abbreviation	: SC= s	hort circuit; OC	= op	en circuit						
1) Measured	d after 3	s for PS1 and	mea	asured after 5 s fo	or PS2 and	PS3	3.			
6.2.3.1	.1 TABLE: Determination of Arcing PIS						Р			

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Clause	Requirement + Test	Result - Remark	Verdict		

Location	Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
Input terminal, All primary and secondary circuits inside enclosure, output connector	1			Yes (declaration)
Supplementary information: N/A	\			

6.2.3.2	TABLE: Determin	nation of resistive PIS		Р
Location		Operating and fault condition	Dissipate power (W)	Resistive PIS? Yes / No
secondary of	al, All primary and circuits inside output connector			Yes (declaration)
	ary information: n: SC= short circuit;	OC= open circuit		

8.5.5	TABLE: High pre	ssure lamp				N/A	
Lamp manufacturer		Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No		
			-				
Supplementa	ary information: N/A	i.					

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Clause	Requirement + Test	Result - Remark	Verdict					

9.6 TABLE	: Temperat	ure measu	rements fo	or wireless	power tra	nsmitters		N/A	
Supply voltage (V)			:					_	
Max. transmit power	of transmitt	er (W)	:						
Part A 1)									
	w/o receiver and direct contact			eiver and contact		ver and at of 2 mm	with receiver and at distance of 5 mm		
Foreign objects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	
Measurement	w/o rece	eiver and contact		eiver and contact		ver and at of 2 mm	with receiver and at distance of 5 mm		
temperature T of part/at:	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	
Part B 2)									
		eiver and contact		with receiver and direct contact		ver and at of 2 mm	with receiver and at distance of 5 mm		
Foreign objects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	
Measurement		eiver and contact		with receiver and direct contact		ver and at of 2 mm	with receiver and at distance of 5 mm		
temperature T of part/at:	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	

Supplementary information:

- 1) The test is performed by powering up the transmitter and then placing each of the foreign objects specified in 9.6.2 in direct contact with the transmitter.
- 2) The test is performed by first placing each of the foreign objects specified in 9.6.2 in direct contact with the transmitter and then powering up transmitter.

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Clause	Requirement + Test	Result - Remark	Verdict			

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Tempe	rature mea	sureme	ents				Р
Supply volta	ge (V)		:	198Va	c/50Hz	264Va	c/50Hz	_
Ambient tem	nperature during to	est T _{amb} (°C	;) :	25.0	35.0	25.0	35.0	_
Maximum m	easured tempera	ture <i>T</i> of pa	rt/at:		Τ (°	°C)		Allowed T _{max} (°C)
T1 coil (Pow	ver supply)			52.8	62.8	54.1	64.1	110
T1 core (Po	wer supply)			48.9	58.9	50.2	60.2	110
LF1 coil (Po	wer supply)			47.6	57.6	47.1	57.1	105
PCB near U	629 (Mainboard)			53.1	63.1	52.6	62.6	130
PCB near U	29 (Mainboard)			49.4	59.4	48.8	58.8	130
PCB near U	41 (Mainboard)			46.2	46.2 56.2		56.1	130
PCB near U	40 (Mainboard)			46.4	46.4 56.4		55.9	130
PCB near U	41 (Mainboard)			54.6	64.6	53.1	63.1	130
PCB near U	L0201 (Mainboar	d)		52.4	62.4	51.1	61.1	130
PCB near U	1 (Mainboard)			59.8	69.8	58.0	68.0	130
Breaker surf	ace			44.8	54.8	42.1	52.1	
Internal wirir	ng			54.8	64.8	53.2	63.2	80
Metal enclos	sure outside (Top))		30.8		28.5		60
Metal enclos	sure outside (Bott	om)		28.5		28.9		60
Temperature	emperature T of winding: t_1 (°C) R_1 (Ω		2) t ₂ (°C)	$R_2\left(\Omega\right)$	T (°C)	Allowed T _{max} (°C)	Insulation class	
Supplementa	ary information:							

B.2.5		TABLE: Input test							Р
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/st	atus
198	50	0.186		23.14		F1	0.186	MAX.Normal work	king
220	50	0.165	3	23.03	25	F1	0.165	MAX.Normal work	king
240	50	0.154	3	22.96	25	F1	0.154	MAX.Normal work	king
264	50	0.142		23.08		F1	0.142	MAX.Normal work	king

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

Supplementary information:

Equipment may be have rated current or rated power or both. Both should be measured.

B.2.5, E.3.1	,	TABLE:	FABLE: Input test for equipment containing audio amplifiers										N/A
Operat Condit		Signal	$ \begin{array}{c cccc} \text{gnal type} & & \text{Frequency} & \text{Output loads} & \text{Load setup} \\ \text{(Hz)} & & \text{(Ω)} & \end{array} $										
Input	ut Amplifier Output												
Cond.	U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fus		I fuse (A)	Ch.	U (V)	P (W)	Load (Ω)
												-	
Supple	ementa	ary inforr	nation:										

B.3, B.4	TAB	LE: Abnormal o	operating a	nd fault o	ondition te	ests		N/A
Ambient tem	pera	ture T _{amb} (°C)			:	25°C	if not specified	_
Power source	e for	EUT: Manufactu	ırer, model/	type, outp	utrating:		_	
Component No.		Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observatio	n
USB output:	5V	OL	264Vac	4h48mi ns		0.168	Output overload to and unit shutdown the unit works norm the temperature of fuselage rises, No explosion and chen leaks	at 3.6A, nally and the emission,
USB output:	5V	SC	264Vac	10mins		0.141	The USB output po shutdown, Unit nor working. No damag hazards.	mal
RL2		SC	264Vac	10mins			Unit normal working damage, no hazard	
C599		SC	264Vac	10mins		0.142	Unit normal working damage, no hazard	
C7		SC	264Vac	10mins		0.142	g. No ls.	

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Clause	Requirement + Test	Result - Remark	Verdict				

Supplementary information: N/A

M.3	TABLE:	Protection c	ircu	its for bat	teries pro	vide	ed wit	hin the	equipment		N/A
Is it possible to ins	tall the ba	ttery in a reve	erse	polarity po	sition?	.:			No		_
					C	harç	ying				
Equipment Speci	ification	Voltage (V)					Current (A)				
			Battery specification								
		Non-rechargeable batteries			Rechargeable batteries						
		Dischargin	Unintentional		(Char	ging		Discharging	1 -	Reverse
Manufacturer/	type	g current charging (A) current (A)		Voltage (V)		Curr	ent (A)	current (A)		charging urrent (A)	
					-						
Note: The tests of I	M.3.2 are	applicable on	ly wl	nen above	appropriat	e da	ıta is n	ot availa	able.		
Specified battery to	emperatur	re (°C)				.:			-		_
Component No.	Fault conditio n	Charge/ discharge mode		Test time	Temp. (°C)		rrent (A)	Voltag (V)	e Obse	erva	tion
0 1 1 1		·		·					•		

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.

	TABLE: battery	E: Charging safeguards for equipment containing a secondary lithium					
Maximum specified charging voltage (V):							
Maximum sp	Maximum specified charging current (A): :						
Highest spec	Highest specified charging temperature (°C): :						
Lowest spec	ified char	ging temperatu	ure (°C)		:		_
Battery		Operating		Measurement		Observation	n
manufacturer/type	r/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)		
Supplementary information:							

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Clause	Requirement + Test		Result - Remark	Verdict		

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)							
Output	Condition	U _{oc} (V)	Time (s)	I _{sc} (A)		S (\	/A)	
Circuit	Condition	U ₀₀ (V)		Meas.	Limit	Meas.	Limit	
USB output	Normal	5.03	60	3.5	8	17.08	100	
	U3 2-5	5.03	60	3.5	8	17.08	100	
Supplementary Information:								

T.2, T.3, T.4, T.5	TABLE	TABLE: Steady force test						
Part/Location	า	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Obse	rvation
Interna components			1	V.2	10	5	clearan cree	action the aces and apage ances.
Top enclo	sure	Metal	Min.1.5	ı	250	5		nage, No zard
Side enclosure		Metal	Min.1.5		250	5		nage, No zard
Bottom enclosure		Metal	Min.1.5		250	5		nage, No zard
Supplementa	Supplementary information: N/A							

T.6, T.9 TABLE: Impa	act test			Р		
Location/part	Material	Thickness (mm)	Height (mm)	Observation		
Top enclosure	Metal	Min.1.5	1300	No damage, No hazard		
Side enclosure	Metal	Min.1.5	1300	No damage, No hazard		
Bottom enclosure	Metal	Min.1.5	1300	No damage, No hazard		
Supplementary information: N/A						

T.7 TABLE: Drop test N/A

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Clause	Requirement + Test	Result - Remark	Verdict			

Location/part	Material	Thickness (mm)	Height (mm)	Observation				
Supplementary information: N/A								

T.8	TABLE	TABLE: Stress relief test						
Location/Par	t	Material	Thickness (mm)	Oven Temperature (°C)	Durati on (h)	Observa	ition	
Supplementary information: N/A								

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

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

4.1.2 T	ABLE: Critical compo	onents information	on		Р	
Object / part No.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
PCB (Mian board)	Guangdong Kingshine Electronic Technology Company Limited	XY-K	V-0, 130°C	UL 94	UL	
Powe cord	Hong Shan Chuan Industry (Shenzhen) Co., L TD	H05VV-F	3 x 0.75mm ²	IEC/EN 60227-1 IEC/EN 60227-2 IEC/EN 60227-5	CE	
- Power Plug	Hong Shan Chuan Industry (Shenzhen) Co., L TD	HSC-802	250V~, 16A	IEC/EN 60884-1	CE	
Enclosure	Interchangeable	Interchangeable	Metal, min. 1.5 mm	IEC 62368-1	Test with appliance	
Internal wire (Primary and Earth wire)	Interchangeable	Interchangeable	Rated min. 18 AWG. 600 V. 105°C, min. VW- 1	UL 758	UL	
Internal wire (Secondary)	Interchangeable	Interchangeable	Rated min. 16 AWG. 300 V. 80 °C, min. VW- 1	UL 758	UL	
Switching Power Supply	MEAN WELL Enterprises Co., Ltd.	NDR-75-24	Input: 100- 240V~, 50/60Hz, 1.6A; Output: DC24V, 3.2A	IEC EN 62368-1: CE 2018		
Breaker	Guangdong Biadi Electronics Co., Ltd.	NXB-63	400V~, 50Hz, 6000A	IEC EN 60898-1: 2019	CE	
Industrial Ethernet switch	TP-Link Technologies Co., Ltd.	TL-SF1005	DC 12/24/48V, 0.1A	IEC EN 62368-1	CE	
Data terminal	Guangdong WEIPU Electrical Appliance Co Ltd	SP1711/S	500V, 15A	EN 61984:2009	CE	

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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.

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Attachment No.1

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Clause	Requirement + Test	Result - Remark	Verdict	l
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ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

(AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT PART 1: SAFETY REQUIREMENTS)

Differences according to: EN IEC 62368-1-2024 + A11:2024

TRF template used.....: IECEE OD-2020-F2:2022, Ed. 1.2

Attachment Form No. EU_GD_IEC 62368_1F

Attachment Originator.....: UL Solutions (Demko)

Master Attachment.....: 2024-05-16

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	CENELEC COMMON MODIFICATIONS (EN)	Р
	Clause numbers in the cells that are shaded light grey are clause references IEC 62368-1:2024+A11:2024. All other clause numbers in that column, exceed those in the paragraph below, refers to IEC 62368-1:2023. Clauses, subclauses, notes, tables, figures and annexes which are additionated those in IEC 62368-1:2023 are prefixed "Z".	ept for
	Add the following annexes:	Р
	Annex ZA (normative) Normative references to international publication with their corresponding European publications	ns
	Annex ZB (normative) Special national conditions	
	Annex ZC (informative) A-deviations	
	Annex ZD (informative) IEC and CENELEC code designations for flexib cords	ole
1	MODIFICATION to the whole document	Р

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Clause	Re	quirement +	Test			Resi	ult - Remark		Verdict
		Delete all the ist: 0.2.1 3.3.8.3	Note 1 and Note 2	1 4.1.15	Note 4 and Note 5		3.3.8.1 4.7.3	Note 2	
		5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and	d	5.4.2.3.2.4 Table 13	Note 2	
		5.4.2.5	Note 2	5.4.5.1	Note		5.4.10.2.1	Note	
		5.4.10.2.2	Note	5.4.10.2.3	Note				
		5.5.2.1	Note	5.5.6	Note		5.6.4.2.1	Note 2 and Note 3 and Note 4	
		5.6.8	Note 2	5.7.7.1	Note 1 and Note 2	d	8.5.4.2.3	Note	
		10.2.1 Table 39	Note 3 and Note 4 and Note 5	10.5.3	Note 2		10.6.1	Note 3	
		F.3.3.4	Note 2	F.3.3.6	Note 3		Y.4.1	Note	
		Y.4.5	Note						
2		Modification	n to Clause 1						Р
1		"NOTE Z1 Telectrical and within the EUDirective 20" Add the follow: This docum		ain substances uipment is resonant on the affect of the standard.	s in stricted fter Note uipment,				P
2	(62911."	n to Clause 2		,				Р
3		viounication	1 to Clause 2						F

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Clause	Requirement + Test	Result - Remark	Verdict
4	Add the following new subclause 4.Z1 after subclause 4.9: "For compliance with B.3 and B.4 in circuits connected to an AC mains, protective devices shall be provided, subject to the following: - for pluggable equipment type A, the protective devices shall be included as parts of the equipment, with the exception of components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, for which the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet;		Р
	- for pluggable equipment type B or permanently connected equipment, the protection may be the dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, for example a fuse or circuit breaker, is fully specified in the installation instructions. Where protective devices are required within the equipment, the protective devices within the equipment shall operate before or at the same time the expected building installation protection will operate. For earth faults in single-phase equipment, it is not necessary to provide 2 protective devices. It is expected that the building installation will protect against earth faults. This applies also in countries where an IT power distribution system is used."		P
5	Modification to subclause 4.1.9		N/A
4.1.9	Add the following paragraph at the end of this subclause: "Products need to comply with the requirements of this document with appropriate measurement uncertainty. NOTE Z1 See also the RED ADCO position on 'Measurement uncertainty in published harmonized standards'."		N/A
6	Modification to subclause 5.4.9.1		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.9.1	Add the following note after the 5th paragraph: "NOTE Z1 For guidance on the use of high voltage source, see IEC 60060-1, Clause 8 of IEC 60243-1 and IEC 61180."		N/A
7	Modification to subclause 5.4.2.3.2.4		N/A
5.4.2.3.2.4	Add the following at the end of this subclause: "The requirement for interconnection with external circuit in a HBES/BACS network is in addition given in EN IEC 63044-3:2018."		N/A
8	Modification to subclause 5.6.6.2		N/A
5.6.6.2	Replace item d) with the following: "d) For equipment powered from a DC mains, if the protective current rating of the circuit under test exceeds 25 A, the test current shall be minimum as required in item a), unless the manufacturer specifies a higher value."		N/A
9	Modification to subclause 9.3.1		N/A
9.3.1	Replace the second paragraph with the following: "An accessible part that, while in contact with the body, is likely to drop in temperature upon touch can be evaluated under the limits of Annex A of IEC Guide 117:2010 using the test method of 4.5 of IEC Guide 117."		N/A
10	Modification to subclause 10.2.1		N/A
10.2.1	Add the following to c) and d) in Table 38: "For additional requirements, see 10.5.1."		N/A
11	Modification to subclause 10.4.1		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
10.4.1	Replace the second paragraph of 10.4.1 with: "Electronic light effect equipment does not have to comply with the requirements of 10.4. However, 114 IEC/TR 62471-2 shall be considered and proper installation instructions shall be provided. Replace the ninth paragraph of 10.4.1 with: The following information shall be provided in the user manual for safe operation and installation. This information shall also be provided for safe operation by a skilled person who may be exposed to Risk Group 3 energy levels. Adequate instructions for proper assembly, installation, maintenance and safe use, including clear warnings concerning precautions to avoid possible exposure to hazardous optical radiation; and Advice on safe operating procedures and warnings concerning reasonably foreseeable misuse, malfunctions and hazardous failure modes. Where servicing and maintenance procedures are detailed, they shall include explicit instructions on safe procedures to be followed; and The marking on the equipment shall be reproduced in the user manual. A yellow background is not required in the user manual.		N/A
12	Modification to subclause 10.4.4		N/A
10.4.4	Replace the last paragraph of 10.4.4 with: "Compliance against material degradation from UV radiation is checked by the applicable tests of Annex C."		N/A
13	Modification to subclause 10.5.1		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
10.5.1	Add the following after the first paragraph: "For RS1 compliance is checked by measurement under the following conditions: In addition to the normal operating conditions, all controls adjustable from the outside of the equipment 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. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm2, at any point at a distance of 10 cm from the outer surface of the equipment. 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. For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	Result - Remark	N/A
	NOTE Z2 These values appear in Directive 2013/59/Euratom of 5 December 2013."		
14	Modification to subclause 10.5.3		N/A
10.5.3	Replace the second paragraph of 10.5.3 with: "The amount of radiation is determined by means of a radiation monitor of the ionizing chamber type with an effective area of 1 000 mm2 ± 10 mm2 or by measuring equipment of other types giving equivalent results."		N/A
15	Modification to Clause 10		Р
	Replace 10.6 with the following:		Р
10.6	Safeguards against acoustic energy sources		P
			ļ

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Clause F	Requirement + Test	Result - Remark	Verdict
10.6.1.1	Introduction Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that: - is designed to allow the user to listen to audio or audiovisual content / material; and - uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and - has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment. Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3. NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360. NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video mode only. The requirements do not apply to: - professional equipment ;		P
	NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores or general public sales channels are considered not to be professional equipment .		
	 hearing aid equipment and other devices for assistive listening; the following type of analogue personal music players: long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and cassette player/recorder; 		
	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.		
	 a player while connected to an external amplifier that does not allow the user to walk around while in use; hearing protection devices (HPD) that comply with EN 352-8 		
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.		
	The relevant requirements are given in EN 71-1:2014+A1:2018, 4.20 and the related tests methods and measurement distances apply.		

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Clause Requirement + Test Result - Remark Verdict

10.6.2	Classification of devices without the capacity to estimate sound dose	Р
10.6.2.1	This standard is transitioning from short-term based (30 s) requirements to long-term based (40 h) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3:2017. For classifying the acoustic output LAeq, T, measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. For music where the average sound pressure (long term LAeq, T) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, T becomes the duration of the song.	P
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term <i>L</i> Aeq, <i>T</i>) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85	

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Clause	Requirement + Test	Result - Remark	Verdict
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2) RS1 is a class 1 acoustic energy source that does not exceed the following: for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acoustioutput shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1:2013. for equipment provided with a standardized connector (for example, a 3,5 mm headphone/earphone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or −25 dBFS (digital interface when playing the fixed 214 "programme simulation noise" described in EN 50332-1:2013.	C (2)	P
10.6.2.3	The RS1 limits will be updated for all devices as per 10.6.3.2. RS2 limits (to be superseded, see 10.6.3.3) RS2 is a class 2 acoustic energy source that does not exceed the following: for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq,T acousti output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1:2013. for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or −10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in 226 EN 50332-1:2013.	c d	P

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Clause	Requirement + Test	Result - Remark	Verdict
10.6.2.4	RS3 limits		N/A
	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.		
10.6.3	Classification of devices (new)		Р
10.6.3.1	General Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision 2009/490/EC of 23 June 2009, are given below.		Р
10.6.3.2	RS1 limits (new) RS1 is a class 1 acoustic energy source that does not exceed the following: for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq,T acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1:2013.		Р
	for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or −30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1:2013.		

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Clause	Requirement + Test	Result - Remark	Verdict
10.6.3.3	RS2 limits (new) RS2 is a class 2 acoustic energy source that does not exceed the following: for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3:2017, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in 249 EN 50332-1:2013. for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN 50332-3:2017, shall be ≤ 15 mV (analogue interface) or −30 dBFS		P
10.6.4	Requirements for maximum sound exposure		Р
10.6.4.1	Measurement methods All volume controls shall be turned to maximum during tests. Measurements shall be made in accordance with EN 50332-1:2013 or EN 50332-2:2013 as applicable.		Р

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Clause	Requirement + Test	Result - Remark	Verdict
10.6.4.2	Protection of persons Except as given below, protection requirements of parts accessible to ordinary persons, instructor persons and skilled persons are given in 4.3. NOTE 1 Volume control is not considered to be a safeguard. Between RS2 and an ordinary person, the basis safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual. Alternatively, the instruction safeguard may be given through the equipment display during use. The elements of the instructional safeguard shall be as follows: - element 1a: the symbol - element 2: "High sound pressure" or equivalent text - element 3: "Hearing damage risk" or equivalent text - element 4: "Do not listen at high volume levels to long periods." or equivalent text An equipment safeguard shall prevent exposure of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off. The equipment shall provide a means to actively inform the user of the increased sound level whe the equipment is operated with an output level exceeding RS1 limits. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output level exceeding RS1 limits. The acknowledgement doe not need to be repeated more than once every 2th of cumulative listening time.	for ed a ic ot al all all t for e t for e t d for e t d d d d d d d d d d d d	P

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Clause	Requirement + Test	Result - Remark	Verdict
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed. NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off. A skilled person shall not be unintentionally exposed to RS3.		
10.6.5	Requirements for dose-based systems		Р
10.6.5.1	General requirements Personal music players shall give the warnings as provided below when tested according to 281 EN 50332-3:2017, using the limits from this clause. The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.		P
10.6.5.2	Dose-based warning and requirements When a dose of 100 % CSD is reached, and at least at every 100 % further increase of CSD, the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to a level in compliance with class RS1 limits. The warning shall at least clearly indicate that listening above 100 % CSD leads to the risk of hearing damage or loss.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
10.6.5.3	Exposure-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3:2017. The EL settling time (time from starting level reduction to reaching target output level) shall be 10 s or less. Test of EL functionality is conducted according to EN 50332-3:2017, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the un-weighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface. In case the source is known not to be music (or		N/A
10.6.6	test signal), the EL may be disabled. Requirements for listening devices (headphones, earphones, etc.)		Р
10.6.6.1	Corded listening devices with analogue input With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximizes the measured acoustic output level, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1:2013 shall be ≥ 75 mV.		N/A
	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV in 10.6.2.2. or 100 dB and 150 mV in 10.6.2.3.		

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Clause	Requirement + Test	Result - Remark	Verdict
10.6.6.2	Corded listening devices with digital input With any playing device playing the fixed "programme simulation noise" described in EN 50332-1:2013, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $LAeq$, T acoustic output of the listening device shall be \leq 100 dB with an input signal of -10 dBFS.		N/A
10.6.6.3	Cordless listening devices In cordless mode, with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1:2013; and respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, T acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.		P
10.6.6.4	Measurement method Measurements shall be made in accordance with EN 50332-2:2013 as applicable."		Р
16	Modification to subclause G.3.1.2		N/A
	Add the following note after the first paragraph: "NOTE Z1 An IEC 60730 series standard is considered relevant if the component in question falls within its scope."		N/A
17	Modification to subclause G.7.1		N/A
	Add the following note at the end of the subclause: "NOTE Z1 The harmonized code designations corresponding to the IEC cable types are given in Annex ZD."		N/A
18	Modification to subclause M.2		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Add the following paragraph after the first paragraph: "The size of the battery compartment shall be designed taking into account the battery compartment recommendations of the relevant battery standard. NOTE For general guidance on the design of the battery compartment, see Clause 8 of IEC 62485-4."		N/A
19	Modification to Bibliography		Р

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Clause	Requirement + Test		Result - Remark	Verdic
	Add the following n	otes for	the standards indicated:	Р
	IEC 60060-1		Harmonized as EN 60060-1.	
	IEC 60130-9	NOTE	Harmonized as EN 60130-9.	
	IEC 60204-1	NOTE	Harmonized as EN IEC 60204-1.	
	IEC 60204-11	NOTE	Harmonized as EN IEC 60204-11.	
	IEC 60243-1	NOTE	Harmonized as EN 60243-1.	
	IEC 60269-2	NOTE	Harmonized as HD 60269-2.	
	IEC 60309-1	NOTE	Harmonized as EN 60309-1.	
	IEC 60364	NOTE	some parts harmonized in HD 384/HD 60364 series.	
	IEC 60601-2-4	NOTE	Harmonized as EN 60601-2-4.	
	IEC 60664-5:2005	NOTE	Harmonized as EN 60664-5:2007.	
	IEC 60721-3-4	NOTE	Harmonized as EN IEC 60721-3-4.	
	IEC 61032:1997	NOTE	Harmonized as EN 61032:1998 (not modified).	
	IEC 61180	NOTE	Harmonized as EN 61180.	
	IEC 61508-1	NOTE	Harmonized as EN 61508-1.	
	IEC 61558-2-1	NOTE	Harmonized as EN 61558-2-1.	
	IEC 61558-2-4	NOTE	Harmonized as EN 61558-2-4.	
	IEC 61558-2-6	NOTE	Harmonized as EN 61558-2-6.	
	IEC 61643-21	NOTE	Harmonized as EN 61643-21.	
	IEC 61643-311	NOTE	Harmonized as EN 61643-311.	
	IEC 61643-321	NOTE	Harmonized as EN 61643-321.	
	IEC 61643-331	NOTE	Harmonized as EN IEC 61643-331.	
	IEC 61140:2016	NOTE	Harmonized as EN 61140:2016.	
	IEC 61439-5:2014	NOTE	Harmonized as EN 61439-5:2015.	
	IEC 61969-3	NOTE	Harmonized as EN 61969-3.	
	IEC 62040:2017	NOTE	Harmonized as EN IEC 62040:2019.	
	IEC 62305-1	NOTE	Harmonized as EN 62305-1.	
	IEC 62368-3	NOTE	Harmonized as EN 62368-3.	
	IEC 62485-4	NOTE	Harmonized as EN IEC 62485-4.	
	ISO 10218-1	NOTE	Harmonized as EN ISO 10218-1.	
	ISO 10218-2	NOTE	Harmonized as EN ISO 10218-2.	
	ISO 13482	NOTE	Harmonized as EN ISO 13482.	
	ISO 13850	NOTE	Harmonized as EN ISO 13850.	
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Clause	Requirement + Test	Result - Remark	Verdict
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20	Addition of annexes	N/A
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	N/A
4.1.15	Finland, Norway and Sweden To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples jordet stikkontakt" In Sweden: "Apparaten skall anslutas till jordat uttag"	N/A
4.7.3	United Kingdom 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.	N/A
5.4.11.1 and Annex G	Finland and Sweden To the end of the subclause the following is added: For separation of the telecommunication network from earth the following is applicable: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either -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.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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 strengt test in accordance with the compliance clause below and in addition	h	
	-passes the tests and inspection criteria of 5.4.7 with an electric strength test of 1,4 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and	5	
	-is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.		
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14, subclass Y2. A capacitor classified Y3 according to EN 60384-14, may bridge this insulation under the following conditions:		
	-the insulation requirements are satisfied by having a capacitor classified Y3 as define by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.10;		
	-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.	1,	
5.5.2.1	Norway After the 3rd paragraph the following is added: Due to the IT power distribution system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.5.6	Finland, Norway and Sweden To the end of the subclause the following is added: Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.3.		N/A
5.6.4.2.1	Ireland and United Kingdom After the indent for pluggable equipment type A, the following is added: -the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.		N/A
5.6.4.2.1	France After the indent for pluggable equipment type A, the following is added: -in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A. Justification: In France, according to NF C15-100 standard, in certain cases, the maximum rated current of the protective device circuit-breaker is 20 A.		N/A
5.6.5.1	Ireland and United Kingdom 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 mm2 to 1,5 mm2 in cross-sectional area.		N/A
5.6.8	Norway To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as class I equipment. See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.7.7.1	Norway and Sweden 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.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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 RMS, 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will also be accepted in Norway): "Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet." Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".		

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Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.2.3	United Kingdom		N/A
	Add the following after the 2nd dash bullet in 3rd paragraph: An emergency stop system complying with the		
	requirements of EN IEC 60204-1 and EN ISO 13850 is required where there is a risk of personal injury.		
B.3.1 and B.4	The following is applicable: 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 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		N/A
G.4.2	United Kingdom To the end of the subclause the following is added: 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.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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.		
	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 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.		

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DEVIATIONS (EN) Int applies: cathode ray tube intended mages operating at exceeding 40 kV, , or application of type ing) and marking.	N/A N/A
cathode ray tube intended mages operating at exceeding 40 kV, , or application of type	N/A
cathode ray tube intended mages operating at exceeding 40 kV, , or application of type	
ee against ionizing dnung), in force since ng the European Directive e Bundesanstalt, 16 Braunschweig,	
dr nç 1	nung), in force since g the European Directive Bundesanstalt,

IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS

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N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
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Type of flexible cord	Code des	ignations
	IEC	CENELEC
PVC insulated cords		
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility		
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F

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Product Photos

Details of: Overview for model CJQ-01



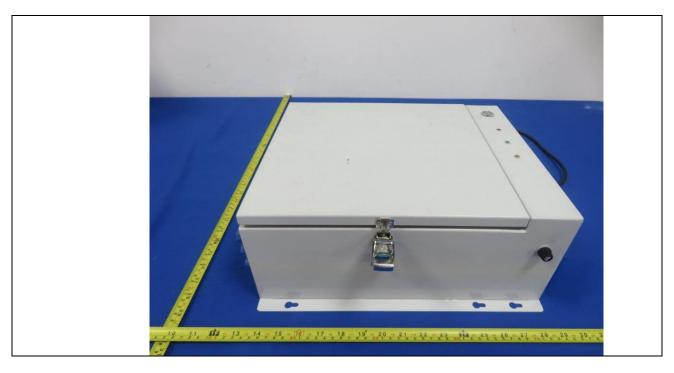
Details of: Overview for model CJQ-01



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Product Photos

Details of: Overview for model CJQ-01



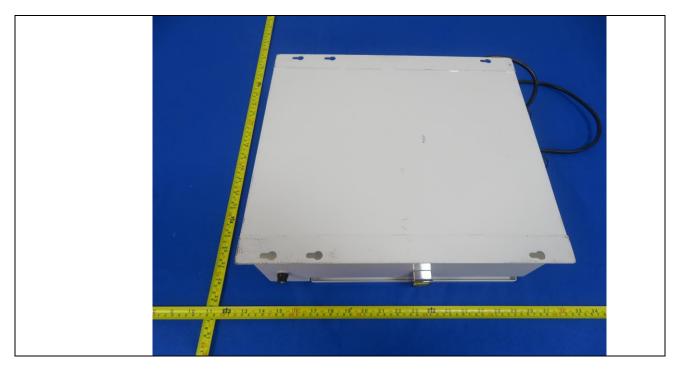
Details of: Overview for model CJQ-01



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Product Photos

Details of: Overview for model CJQ-01



Details of: Overview for model CJQ-01



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Product Photos

Details of: Internal view



Details of: Overview for Switching Power Supply



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Product Photos

Details of: Breaker view



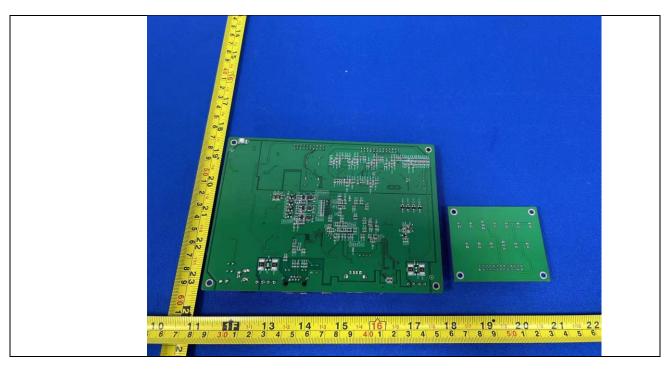
Details of: PCB view



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Product Photos

Details of: PCB view



Details of: Industrial Ethernet Switch view



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Product Photos

Details of: Industrial Ethernet Switch view



- End of report -

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