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TEST REPORT EN 62368-1

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

Report Number.....: LCSA062123102S

Date of issue: 2023-07-07

Total number of pages: 73

Name of Testing Laboratory

preparing the Report Shenzhen LCS Compliance Testing Laboratory Ltd.

Applicant's name: Mid Ocean Brands B.V.

Address: 7/F., Kings Tower,111 King Lam Street, Cheung Sha Wan,

Kowloon, Hong Kong

Test specification:

Standard: EN IEC 62368-1:2020+A11:2020

Test procedure....:: Type test

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

TRF template used: IECEE OD-2020-F1:2021, Ed.1.4

Test Report Form No.....: IEC62368_1E

Test Report Form(s) Originator....: UL(US)

Master TRF: Dated 2022-04-14

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Test item description:	Wireless charger
	/ 13- A

Trade Mark: N/A

Manufacturer.....: Same as the Applicant

Model/Type reference MO9446, MO9785, MO9996

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

☐ Testing Laboratory:		Shenzhen LCS Compliance Testing Laboratory Ltd.		
Testing location/ address:		Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China		
Pre	pared by:	Richard Yi Project Handler	Richard 72	
Che	ecked by:	Benson Kuai Reviewer	Benson Knai	
App	proved by	Hart Qiu Technical Director	Hur Vi	



















List of Attachments (including a total number of pages in each attachment):

- Attachment No. 1: National Differences

- Attachment No. 2: Photo Documentation

Summary of testing:

Tests performed (name of test and test clause):

Electrical safety:

> EN IEC 62368-1:2020+A11:2020

Testing location:

Shenzhen LCS Compliance Testing Laboratory Ltd. Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Summary of compliance with National Differences (List of countries addressed):

List of countries addressed: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES.

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

Statement concerning the uncertainty of the measurement systems used for the tests

Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

Statement not required by the standard used for type testing

When determining for test conclusion, measurement uncertainty of tests has been considered.

The determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.



















Copy of marking plate:

The artwork below may be only a draft.

MOB/MO9446 Input: DC 5V == 2A

PO BOX 644 Output : DC 5V == 1A 6710 BP (NL) Frequency range: 110-205kHz Made in China Wireless Output power: 5W Max

PO41-111110



Note:

The height of CE and UKCA symbol ≥ 5.0mm; the height of WEEE symbol ≥ 7.0mm.











Test item particulars:	公测股份
Product group:	☑ end product ☐ built-in component
Classification of use by:	☑ Ordinary person☑ Children likely present☑ Instructed person☑ Skilled person
Supply connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES1 ☐ ES2 ☐ ES3
Supply tolerance:	
· · · · · · · · · · · · · · · · · · ·	None (Not directly connected to the mains)
Supply connection – type:	☐ pluggable equipment type A — ☐ non-detachable supply cord ☐ appliance coupler ☐ direct plug-in
	☐ pluggable equipment type B — ☐ non-detachable supply cord ☐ appliance coupler ☐ permanent connection ☐ mating connector
	other: Not directly connected to mains
Considered current rating of protective device:	Location: Duilding equipment
Testing La	Location: ☐ building ☐ equipment ☐ N/A
Equipment mobility:	□ movable
Overvoltage category (OVC):	☐ other: ☐ OVC II ☐ OVC III ☐ OVC IV ☐ other: Not directly connected to mains
Class of equipment:	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐
Special installation location:	N/A☐ restricted access area☐ outdoor location
Pollution degree (PD):	☐ PD 1 ☐ PD 2 ☐ PD 3
Manufacturer's specified T _{ma} :	25 °C ☐ Outdoor: minimum °C
IP protection class:	☑ IPX0 □ IP
Power systems::	☐ TN ☐ TT ☐ IT - V _{L-L} ☐ not AC mains
Altitude during operation (m):	≥ 2000 m or less
Altitude of test laboratory (m):	⊠ 500 m or less
Mass of equipment (kg):	Approx. <u>0.100</u> kg
-11 RG VII	









Possible test case verdicts:	女讯检测DLab 女讯检
- test case does not apply to the test object:	N/A LOSTOS
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
Testing:	
Date of receipt of test item:	2023-06-21
Date (s) of performance of tests:	2023-06-21 to 2023-07-07
General remarks:	
	to the report.
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
	Tea reals.
When differences exist; they shall be identified	in the General product information section.
Name and address of factory (ies):	Dongguan Tianzhigong Mould Plastic Products Co., Ltd. No. 2 Junpeng Road, Shitanbu, Tangxia Town, Dongguan City
General product information and other remark	s:
Product Description 1. The EUT is a Wireless Charger, class III eq 2. The maximum ambient temperature is 25°0	· -





All models differ in name only, this report test in model MO9446.





OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS Clause **Possible Hazard** Electrically-caused injury Safeguards Class and Energy Source **Body Part** (e.g. ES3: Primary circuit) (e.g. Ordinary) В S R N/A N/A ES1: All circuits (Max Ordinary N/A input:5VDC) Electrically-caused fire Class and Energy Source Material part Safeguards (e.g. PS2: 100 Watt circuit) (e.g. Printed board) PS1: All circuits within EUT All circuits Equipment N/A N/A safeguard (no ignition) Injury caused by hazardous substances Safeguards Class and Energy Source **Body Part** (e.g. Ozone) (e.g., Skilled) R В S N/A N/A N/A N/A N/A 8 Mechanically-caused injury Safeguards Class and Energy Source **Body Part** (e.g. MS3: Plastic fan blades) (e.g. Ordinary) В S R MS1: Edges and corners Ordinary N/A N/A N/A MS1: Less than 7kg Mass of the unit N/A N/A N/A N/A N/A N/A MS1: Moving parts Ordinary Thermal burn Safeguards Class and Energy Source **Body Part** (e.g. TS1: Keyboard caps) (e.g., Ordinary) В R TS1: Internal parts / circuits Ordinary N/A N/A N/A TS1: Requirements for wireless Specification of the foreign N/A N/A N/A power transmitters (Clause 9.6) objects TS1: Plastic enclosure outside N/A N/A Ordinary N/A (accessible area) 10 Radiation Safeguards Class and Energy Source **Body Part** (e.g. RS1: PMP sound output) (e.g., Ordinary) В R S 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

上CS Testing Lab

TH拉测路份

IST LCS Testing Lab

























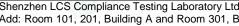


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	IEC 6236	8-1	
Clause	Requirement + Test	Result - Remark	Verdict
· 讯检测 DCL	b Taking Lab	古话位测 Bab	一话位

4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	Р
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	P 脱竹 ng Lab
4.1.3	Equipment design and construction	Evaluation of safeguards regarding limiting the outputs to fulfill ES1 and protection in regard to risk of spread of fire, mechanical and thermal burn injury considered.	Р
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	an Hi	N/A
4.1.8	Liquids and liquid filled components (LFC)	Tin to ing Lab	N/A
4.1.15	Markings and instructions	(See Annex F)	I LPS TO
4.4.3	Safeguard robustness	No such safeguard used.	Р
4.4.3.1	General		N/A
4.4.3.2	Steady force tests		N/A
4.4.3.3	Drop tests	Required by client. (See Annex T.7)	Р
4.4.3.4	Impact tests		N/A
4.4.3.5	Internal accessible safeguard tests	No such safeguard.	N/A
4.4.3.6	Glass impact tests	No such glass used.	N/A
4.4.3.7	Glass fixation tests	1187 102	N/A
	Glass impact test (1J)		N/A
	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
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	a Hà	N/A
4.4.5	Safety interlocks	上五位 ^{测度73}	N/A







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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.5	Explosion	工社位加加及Lab	TP
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions.	Р
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	Р
	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	Fixing of conductors		N/A
	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	No coin/button cell battery used.	N/A
4.8.2	Instructional safeguard:		N/A
4.8.3	Battery compartment door/cover construction		N/A
二五位测段节	Open torque test	上:用於河股(7)	N/A
4.8.4.2	Stress relief test	LCS Testing	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 condu	ctive object	N/A
4.10	Component requirements	LCS TO	N/A
4.10.1	Disconnect Device		N/A
4.10.2	Switches and relays		N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy source	es	Р
5.2.2	ES1, ES2 and ES3 limits	ES1	Р
5.2.2.2	Steady-state voltage and current limits:	(See appended table 5.2)	Р





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.2.2.3	Capacitance limits:	Till Testing Lab	N/A
5.2.2.4	Single pulse limits:	No such single pulses generated in the EUT or applied to it.	N/A
5.2.2.5	Limits for repetitive pulses:	No such repetitive pulses within the EUT	N/A
5.2.2.6	Ringing signals	No such ringing signals within the EUT	N/A
5.2.2.7	Audio signals	No such audio signals	N/A
5.3	Protection against electrical energy sources	. ~ .	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	Only ES1 circuits within the EUT.	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	Only ES1 circuit can be accessed for the EUT	N/A
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2	Contact requirements		N/A
可检测股节	Test with test probe from Annex V	· 油检测股份	-
5.3.2.2 a)	Air gap – electric strength test potential (V)	ICS Testing	N/A
5.3.2.2 b)	Air gap – distance (mm)		N/A
5.3.2.3	Compliance		N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements		Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	Р
5.4.1.3	Material is non-hygroscopic	No hygroscopic material used.	Р
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	股份P
5.4.1.5	Pollution degrees	2 VST LCS Test	Р
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2 is applied. No insulating compound applied (however see 5.5.4).	N/A
5.4.1.5.3	Thermal cycling test	See above	N/A
5.4.1.6	Insulation in transformers with varying dimensions	No such transformer within the EUT	N/A
5.4.1.7	Insulation in circuits generating starting pulses	No such starting pulses within the EUT	N/A
5.4.1.8	Determination of working voltage:	可於測度物	N/A







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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.9	Insulating surfaces	Title ing Lab	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	TE	N/A
5.4.1.10.2	Vicat test		N/A
5.4.1.10.3	Ball pressure test:		N/A
5.4.2	Clearances	Class III equipment, only functional insulations were considered. See also Annex B.4.4 for short circuit of functional insulation.	N/A
5.4.2.1	General requirements	古语位制	N/A
180	Clearances in circuits connected to AC Mains, Alternative method	- LCS TO.	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		_
5.4.2.3.2.3	d.c. mains transient voltage		
5.4.2.3.2.4	External circuit transient voltage	-al EG (t)	
5.4.2.3.2.5	Transient voltage determined by measurement:	立計位 Pasting Lab	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test:	100	N/A
5.4.2.5	Multiplication factors for clearances and test voltages		N/A
5.4.2.6	Clearance measurement		N/A
5.4.3	Creepage distances	Class III equipment, only functional insulations were considered. See also Annex B.4.4 for short circuit of functional insulation.	N/A
5.4.3.1	General	T illian	N/A
5.4.3.3	Material group	The Low	_
5.4.3.4	Creepage distances measurement:		N/A
5.4.4	Solid insulation		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 113	N/A
5.4.4.5	Insulating compound forming cemented joints	上 · · · · · · · · · · · · · · · · · · ·	N/A







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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.6	Thin sheet material	Titl' Lab	N/A
5.4.4.6.1	General requirements	, ree .	N/A
5.4.4.6.2	Separable thin sheet material		N/A
	Number of layers (pcs):		N/A
5.4.4.6.3	Non-separable thin sheet material	No such insulation used within the EUT	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	女讯检测	N/A
5.4.4.7	Solid insulation in wound components	LCS TO	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 (MΩ):	上讯检测股 ^仍	N/A
LCS Testing	Electric strength test	LCS Testing	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	No such 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	二五位列	N/A
5.4.9.1	Test procedure for type test of solid insulation:	LCS Test	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	. 115	N/A
5.4.10.2.3	Steady-state test	上讯检测度 Nab	N/A





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.10.3	Verification for insulation breakdown for impulse test	TO Testing Lab	N/A
5.4.11	Separation between external circuits and earth	No such connections for external circuit applied within the EUT	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	No such connections to external circuit as above.	N/A
5.4.11.2	Requirements		N/A
	SPDs bridge separation between external circuit and earth		N/A
_ 1	Rated operating voltage U _{op} (V):	工 讯检测	_
Way r	Nominal voltage U _{peak} (V):	151 LCS TES	_
	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:	元检测股份	N/A
5.4.12.4	Container for insulating liquid:	I Working La	N/A
5.5	Components as safeguards	Te	N/A
5.5.1	General		N/A
5.5.2	Capacitors and RC units	No such component provided.	N/A
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	No such component provided.	N/A
5.5.4	Optocouplers	No such component provided.	N/A
5.5.5	Relays	No such component provided.	N/A
5.5.6	Resistors	No such component provided.	N/A
5.5.7	SPDs	No such component provided.	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable:	No such external circuits.	N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment		N/A
	RCD rated residual operating current (mA):		
5.6	Protective conductor	Class III equipment	N/A
5.6.2	Requirement for protective conductors	一种测胶 物	N/A



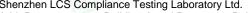


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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.6	Protective conductor	Class III equipment, do not considered that it will connect to protective conductor.	N/A
5.6.2	Requirement for protective conductors		N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation		N/A
5.6.3	Requirement for protective earthing conductors		N/A
	Protective earthing conductor size (mm²):		_
200	Protective earthing conductor serving as a reinforced safeguard	- 洪检测	N/A
TEL T	Protective earthing conductor serving as a double safeguard	LCS Test	N/A
5.6.4	Requirements for protective bonding conductors		N/A
5.6.4.1	Protective bonding conductors		N/A
	Protective bonding conductor size (mm²):		_
5.6.4.2	Protective current rating (A):		N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)	10000000000000000000000000000000000000	N/A
LCS Testing L	Terminal size for connecting protective bonding conductors (mm)	LCS Testing La	N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective bonding system		N/A
5.6.6.1	Requirements		N/A
5.6.6.2	Test Method ::		N/A
5.6.6.3	Resistance (Ω) or voltage drop:		N/A
5.6.7	Reliable connection of a protective earthing conductor	- "111	N/A
5.6.8	Functional earthing	立讯检查	N/A
1/80 1	Conductor size (mm²):	- Fee real	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 pro-	otective conductor current	N/A
5.7.2	Measuring devices and networks		N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections	立讯检测股份	N/A





Shenzhen LCS Compliance Testing Laboratory Ltd.

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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.7.4	Unearthed accessible parts:	I it de ling Lab	N/A
5.7.5	Earthed accessible conductive parts:	1, 100	N/A
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	IN THE	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 supplie	es	N/A
	Mains terminal ES:		N/A
A STILL RES	Air gap (mm):	· 一种股份	N/A

6	ELECTRICALLY- CAUSED FIRE Classification of PS and PIS		Р
6.2			Р
6.2.2	Power source circuit classifications:	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources	PS1	Р
6.2.3.1	Arcing PIS	Voltage of all circuits within the EUT are less than 50V (peak) a.c. of d.c., which be considered not an arcing PIS circuits. (See appended table 6.2.3.1 for details)	N/A
6.2.3.2	Resistive PIS:	Power of all circuits within the EUT are less than 15W, which be considered not an arcing PIS circuits. (See appended table 6.2.3.1 for details)	N/A
6.3	Safeguards against fire under normal operating a conditions	nd abnormal operating	Р
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, 6.3.2, 9.3, B.2.6 and appended table B.3, B.4)	Р
·讯检测版	Combustible materials outside fire enclosure:	+ 讯检测版 Lab	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
6.4	Safeguards against fire under single fault conditions		
6.4.1	Safeguard method	1000	P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		Р
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	女讯检测	ng LP
6.4.5	Control of fire spread in PS2 circuits	Ce Jee	N/A
6.4.5.2	Supplementary safeguards		N/A
6.4.6	Control of fire spread in PS3 circuits	No PS3 circuits.	N/A
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		N/A
6.4.8.2	Fire enclosure and fire barrier material properties	设置设计	N/A
6.4.8.2.1	Requirements for a fire barrier	Till Corting Land	N/A
6.4.8.2.2	Requirements for a fire enclosure	1	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top openings and properties		N/A
	Openings dimensions (mm):	No openings	N/A
6.4.8.3.4	Bottom openings and properties	- t- T	N/A
WS! I	Openings dimensions (mm):	No openings	N/A
100	Flammability tests for the bottom of a fire enclosure	1	N/A
	Instructional Safeguard:		N/A
6.4.8.3.5	Side openings and properties		N/A
	Openings dimensions (mm):	No openings	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:	-m 86 (f)	N/A
6.4.9	Flammability of insulating liquid:	THE MING Lab	N/A





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	IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
6.5	Internal and external wiring	I Hill Lab	N/A		
6.5.1	General requirements	, 100	N/A		
6.5.2	Requirements for interconnection to building wiring		N/A		
6.5.3	Internal wiring size (mm²) for socket-outlets:		N/A		
6.6	Safeguards against fire due to the connection to	additional equipment	N/A		

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

8	MECHANICALLY-CAUSED INJURY		Р
8.2	the state of the s		P N/A
8.3			
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	Edges and corners of the enclosure are rounded (MS1).	Р
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	The meshing gears within the EUT are inaccessible. Moving parts is classified MS1.	N/A
- Tear	MS2 or MS3 part required to be accessible for the function of the equipment	- Tea Ice	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	an IA	N/A
8.5.4.2.1	Protection of persons in the work cell	古语检测版社	N/A







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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.2.2	Access protection override	Titl A in Back	N/A
8.5.4.2.2.1	Override system	Tog ,	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
NSI T	Mechanical system subjected to 100 000 cycles of operation	LCS TOST	₀∍ N/A
	- Mechanical function check and visual inspection		N/A
	- Cable assembly		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media		N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:		N/A
8.5.4.3.3	Disconnection from the supply	are 43	N/A
8.5.4.3.4	Cut type and test force (N):	立语检测 Lab	N/A
8.5.4.3.5	Compliance	rca, es	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	Lan 检测	N/A
8.6.2.2	Static stability test:	1131 LCS 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	eture 4	N/A





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
8.7.1	Mount means type	Till A simple	N/A
8.7.2	Test methods	100	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	女讯检测	N/A
1/2/	Number of handles:	Les res	_
	Force applied (N)		
8.9	Wheels or casters attachment requirements		N/A
8.9.2	Pull test		N/A
8.10	Carts, stands and similar carriers	1	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	1 绘测股份	N/A
CS Testing	Loading force applied (N):	Till Testing Lan	N/A
8.10.4	Cart, stand or carrier impact test	19	N/A
8.10.5	Mechanical stability		N/A
	Force applied (N)		
8.10.6	Thermoplastic temperature stability		N/A
8.11	Mounting means for slide-rail mounted equipmen	t (SRME)	N/A
8.11.1	General		N/A
8.11.2	Requirements for slide rails		N/A
- +	Instructional Safeguard:	立语检测	N/A
8.11.3	Mechanical strength test	Tel reales	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)		





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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
9	THERMAL BURN INJURY	* * \$> -	Р	
9.2	Thermal energy source classifications		Р	
9.3	Touch temperature limits		N/A	
9.3.1	Touch temperatures of accessible parts:	(See appended table 5.4.1.4, 6.3.2, 9.3, B.2.6)	N/A	
9.3.2	Test method and compliance		N/A	
9.4	Safeguards against thermal energy sources		N/A	
9.5	Requirements for safeguards		N/A	
9.5.1	Equipment safeguard	The EUT is classified to TS1, is no need for equipment safeguard.	N/A	
9.5.2	Instructional safeguard		N/A	
9.6	Requirements for wireless power transmitters		Р	
9.6.1	General		Р	
9.6.2	Specification of the foreign objects		Р	
9.6.3	Test method and compliance:	(See table 9.6)	Р	

10	RADIATION		Р	
10.2	Radiation energy source classification			T PA
10.2.1	General classification	ST.	LED only used for indicating classified as RS1.	P
	Lasers	:		—
	Lamps and lamp systems	:		_
	Image projectors	:		_
	X-Ray	:		_
	Personal music player	:		_
10.3	Safeguards against laser radiation			N/A
VIST I	The standard(s) equipment containing laser(s) comply	de	USA ICS TEST	N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)			N/A
10.4.1	General requirements			N/A
	Instructional safeguard provided for accessible radiation level needs to exceed			N/A
	Risk group marking and location	.:		N/A
	Information for safe operation and installation			N/A
10.4.2	Requirements for enclosures		人。河南经	N/A





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
Lift Testing L	UV radiation exposure:	工社位 Testing Lab	N/A
10.4.3	Instructional safeguard:	, ree	N/A
10.5	Safeguards against X-radiation		N/A
10.5.1	Requirements		N/A
	Instructional safeguard for skilled persons:		_
10.5.3	Maximum radiation (pA/kg):		_
10.6	Safeguards against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification	古讯检测	N/A
NST L	Acoustic output L _{Aeq,T} , dB(A):	MST LCS Test	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
-mi RE V	30 s integrated exposure level (MEL30):	一個段份	N/A
if hering L	Warning for MEL ≥ 100 dB(A)	工语 Testing Lab	N/A
10.6.4	Measurement methods	100	N/A
10.6.5	Protection of persons		N/A
	Instructional safeguards:		N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)		N/A
10.6.6.1	Corded listening devices with analogue input		N/A
	Listening device input voltage (mV):		N/A
10.6.6.2	Corded listening devices with digital input		N/A
四立	Max. acoustic output L _{Aeq,T} , dB(A):	Till Test	N/A
10.6.6.3	Cordless listening devices	100	N/A
	Max. acoustic output L _{Aeq,T} , dB(A):		N/A

	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS	
B.1	General	
B.1.5	Temperature measurement conditions (See appended table 5. 6.3.2, 9.3, B.2.6 and aptable 9.3)	



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
B.2	Normal operating conditions	Title implan	TP
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
	Audio Amplifiers and equipment with audio amplifiers:	Not such equipment.	Р
B.2.3	Supply voltage and tolerances	Rated voltage	Р
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		N/A
B.3.1	General		N/A
B.3.2	Covering of ventilation openings	一 有枪图	N/A
1/2/1	Instructional safeguard:	VST LCS Too	N/A
B.3.3	DC mains polarity test	The EUT is not connected to a D.C. mains	N/A
B.3.4	Setting of voltage selector	No voltage selector used.	N/A
B.3.5	Maximum load at output terminals		N/A
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:	四位测股份	N/A
B.4	Simulated single fault conditions	LCS Testing	Pore
B.4.1	General	1	Р
B.4.2	Temperature controlling device	No such device used	N/A
B.4.3	Blocked motor test	No motor used	N/A
B.4.4	Functional insulation	See below.	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards used.	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4 for faults on electronic components)	Р
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A







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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3, no any flame occurred.	TP
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:	VST ICS Test	N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		N/A
É.1	Electrical energy source classification for audio signals		N/A
	Maximum non-clipped output power (W):		
	Rated load impedance (Ω):		
	Open-circuit output voltage (V):		
	Instructional safeguard:		
E.2	Audio amplifier normal operating conditions		N/A
	Audio signal source type:		
	Audio output power (W):		
VS	Audio output voltage (V)	UST ICS Test	
1000	Rated load impedance (Ω):	100	
	Requirements for temperature measurement		N/A
E.3	Audio amplifier abnormal operating conditions		N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		Р
F.1	General		Р
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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
F.2	Letter symbols and graphical symbols	Till A Tosting Lab	TP
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	Р
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	The required marking is located on the product is easily visible.	服好 ng Lab
F.3.2	Equipment identification markings	See copy of marking plate.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate.	_
F.3.2.2	Model identification:	See page 2 for details.	_
F.3.3	Equipment rating markings		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.	- 1
F.3.3.4	Rated voltage	See copy of marking plate.	
F.3.3.5	Rated frequency:	LCS Testing	Les Tes
F.3.3.6	Rated current or rated power:	See copy of marking plate.	_
F.3.3.7	Equipment with multiple supply connections		N/A
F.3.4	Voltage setting device	No 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	No such devices on the equipment	N/A
F.3.5.2	Switch position identification marking:	No switch used.	N/A
F.3.5.3	Replacement fuse identification and rating markings:	No such component used.	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	See below.	N/A
F.3.5.6	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification	Class III equipment	N/A
F.3.6.1	Class I equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal:	对检测股 物	N/A





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
F.3.6.1.2	Protective bonding conductor terminals:	Title ing Lab	N/A
F.3.6.2	Equipment class marking:	100	N/A
F.3.6.3	Functional earthing terminal marking:		N/A
F.3.7	Equipment IP rating marking:	IPX0.	_
F.3.8	External power supply output marking:		N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge.	P Lab
一位标题程件	The state of the s	After each test, the marking remained legible.	5
F.4	Instructions	Timesting Lan	Р
	a).Information prior to installation and initial use b).Equipment for use in locations where children not likely to be present	12	P N/A
	c). Instructions for installation and interconnection		P
	d). Equipment intended for use only in restricted access area		N/A
	e). Equipment intended to be fastened in place		N/A
	f). Instructions for audio equipment terminals		N/A
4	g). Protective earthing used as a safeguard	この位別	N/A
VIST L	h) Protective conductor current exceeding ES2 limits	LCS Test	N/A
	i). Graphic symbols used on equipment		Р
	j). Permanently connected equipment not provided with all-pole mains switch		N/A
	k) Replaceable components or modules providing safeguard function		N/A
	l). Equipment containing insulating liquid		N/A
	m) Installation instructions for outdoor equipment		N/A
F.5	Instructional safeguards	10T-4FT	N/A





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Clause	Requirement + Test	Result - Remark	Verdict
G	COMPONENTS		P
G.1	Switches	100	N/A
G.1.1	General	No switch used.	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	No relay used.	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supplying power to other equipment	Ta 工语检测	N/A
G.2.4	Test method and compliance		N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs	No thermal cut-off used.	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	THE CO	N/A
G.3.2	Thermal links	工讯位为 Lab	N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	TC2 1	N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors	No PTC thermistor used.	N/A
G.3.4	Overcurrent protection devices		N/A
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	152 立语位制	N/A
G.3.5.2	Single faults conditions:	100	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	CH SH Im-	N/A





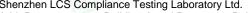


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Clause	Requirement + Test	Result - Remark	Verdict
G.5.1.2	Protection against mechanical stress	Tillia Impacab	N/A
G.5.2	Endurance test	1000	N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Test time (days per cycle):		_
	Test 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	共福河	N/A
G.5.3.1	Compliance method:	15 LCS Test	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	· A TIM BEY	N/A
G.5.3.3.3	Winding temperatures – alternative test method	正语和 Testing Lab	N/A
G.5.3.4	Transformers using FIW	No such FIW	N/A
G.5.3.4.1	General		N/A
	FIW wire nominal diameter:		_
G.5.3.4.2	Transformers with basic insulation only		N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:		N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core		N/A
G.5.3.4.5	Thermal cycling test and compliance	女讯检测	N/A
G.5.3.4.6	Partial discharge test	Ve res	N/A
G.5.3.4.7	Routine test		N/A
G.5.4	Motors		Р
G.5.4.1	General requirements	DC stepper motors used, model: 24BYJ48-5V. No test required.	Р
G.5.4.2	Motor overload test conditions		N/A
G.5.4.3	Running overload test	ar th	N/A
G.5.4.4.2	Locked-rotor overload test	古语位 IIII Re Lab	N/A









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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
Title Jung La	Test duration (days):	Title impe	
G.5.4.5	Running overload test for DC motors	DC stepper motors used, model: 24BYJ48-5V. No test required.	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	DC stepper motors used, model: 24BYJ48-5V.	N/A
05400	Total in the curit	No test required.	NI/A
G.5.4.6.2	Tested in the unit	VS . cs 100	N/A
05400	Maximum Temperature:		N/A
G.5.4.6.3 G.5.4.7	Alternative method		N/A
G.5.4.7 G.5.4.8	Motors with capacitors		N/A N/A
G.5.4.6 G.5.4.9	Three-phase motors Series motors		N/A
G.5.4.9			IN/A
G.6	Operating voltage: Wire Insulation		N/A
G.6.1	General	pr. 47	N/A
G.6.2	Enamelled winding wire insulation	Trita illi fizza	N/A
G.0.2 G.7	Mains supply cords	LCS Tes.	N/A
G.7.1	General requirements		N/A
G.7.1	Type:		IN/A
G.7.2	Cross sectional area (mm² or AWG):		N/A
G.7.3	Cord anchorages and strain relief for non-detachable power supply cords		N/A N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements	Trans.	N/A
Wel I	Strain relief test force (N):	Tillian Contest	N/A
G.7.3.2.2	Strain relief mechanism failure	1871 (188	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material		N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Test method and compliance		N/A







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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
CS Testing L	Overall diameter or minor overall dimension, <i>D</i> (mm)	LCS Testing Lab	
	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	Trans.	N/A
G.8.1	General requirements	TIME TO ST	N/A
G.8.2	Safeguards against fire	123 103	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
- 10	IC limiter output current (max. 5A):	- 112	_
话检测度	Manufacturers' defined drift:	一语 和 Tun Re Trab	_
G.9.2	Test Program	LCS Testing	N/A
G.9.3	Compliance	<u> </u>	N/A
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	工证明证	N/A
G.11	Capacitors and RC units	Med Ice.	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	1	N/A
	Optocouplers comply with IEC 60747-5-5 with specifics		N/A
THE P	Type test voltage V _{ini,a} :		







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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
Little Testing L	Routine test voltage, V _{ini, b} :	Till Asimples	
G.13	Printed boards	100	Р
G.13.1	General requirements	See the following details.	Р
G.13.2	Uncoated printed boards		Р
G.13.3	Coated printed boards	No coated printed board or multilayer board used.	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
1	Distance through insulation:	工活位形	N/A
1/2	Number of insulation layers (pcs):	18 TCe 100	_
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	No coating on component terminals used.	N/A
G.15	Pressurized liquid filled components	TO SEE 45	N/A
G.15.1	Requirements	No pressurized liquid filled components used.	N/A
G.15.2	Test methods and compliance		N/A
G.15.2.1	Hydrostatic pressure test		N/A
G.15.2.2	Creep resistance test		N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test		N/A
G.15.2.5	Thermal cycling test		N/A
G.15.2.6	Force test		N/A
G.15.3	Compliance	工识版	N/A
G.16	IC including capacitor discharge function (ICX)	TC2	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:		_
讯检测股份	Mains voltage that impulses to be superimposed on	立用检测股份 clab	_
	31 11 300	TALLED STORY	



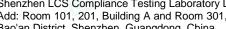


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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
LCS Testing L	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:	THE LEST LESS LESS LESS LESS LESS TESTING LESS	_
G.16.3	Capacitor discharge test		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)	W. a.c.	_
H.3.1.2	Voltage (V)	TTT CS Test	_
H.3.1.3	Cadence; time (s) and voltage (V):		_
H.3.1.4	Single fault current (mA)::		_
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V):		N/A
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		N/A
J.1	General	Tree.	N/A
	Winding wire insulation:		_
	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		
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
	Instructional safeguard:		N/A
K.2	Components of safety interlock safeguard mecha	anism	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









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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
K.7	Interlock circuit isolation	立清格·mgLab	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		N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single-phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
	Instructional safeguard:		N/A
М	EQUIPMENT CONTAINING BATTERIES AND THE	IR 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	工工活位	N/A
M.3.1	Requirements		N/A
M.3.2	Test method		N/A
	Overcharging of a rechargeable battery	(See table B.4 and table Annex M)	N/A
	Excessive discharging	(See table B.4 and table Annex M)	N/A
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
M.3.3	Compliance	. 1.20 - July 132"	N/A
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Requirements		N/A
M.4.2.2	Compliance:		N/A
M.4.3	Fire enclosure:		N/A
M.4.4	Drop test of equipment containing a secondary lithium battery	立讯检测	N/A
M.4.4.2	Preparation and procedure for the drop test		N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::		N/A
M.4.4.4	Check of the charge/discharge function		N/A
M.4.4.5	Charge / discharge cycle test		N/A
M.4.4.6	Compliance		N/A
M.5	Risk of burn due to short-circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Test method and compliance		N/A
M.6	Safeguards against short-circuits		N/A
M.6.1	External and internal faults	Internal fault testing had been conducted on the cell as part of compliance with IEC62133-2: 2017	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
100	Minimum air flow rate, Q (m ³ /h):		N/A
M.7.3	Ventilation tests		N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A
	Hydrogen gas concentration (%):		N/A
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





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V	IEC 62368-1	·	
Clause	Requirement + Test	Result - Remark	Verdict
Clause	12 - 11 12 - 11 12 - 1	Result - Remark	verdici
	Hydrogen gas concentration (%):		N/A
M.7.4	Marking:		N/A
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte		N/A
M.8.1	General		N/A
M.8.2	Test method		N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):		_
M.8.2.3	Correction factors:		
M.8.2.4	Calculation of distance d (mm):		
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse	Mentioned in user manual.	N/A
	Instructional safeguard:		N/A
N	ELECTROCHEMICAL POTENTIALS		N/A
	Material(s) used:		_
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		
	Value of X (mm):		_
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		N/A
P.1	General No PS3 circuits		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	NSA LOSTO	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







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	IEC 62368-1	
Clause		mark Verdict
Clause	Requirement + Test Result - Rer	mark Verdict
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	
P.4.1	General	N/A
P.4.2	Tests	N/A
	Conditioning, T _C (°C):	_
	Duration (weeks):	_
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILD	ING WIRING N/A
Q.1	Limited power sources	N/A
Q.1.1	Requirements	N/A
	a) Inherently limited output	N/A
	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:	N/A
	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	Р
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	
	Samples, material::	_
	Wall thickness (mm):	_
	Conditioning (°C):	







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— V	Fage 37 01 73	Nepoli No.: LC3A00.	21231023
	IEC 62368-1	T	I
Clause	Requirement + Test	Result - Remark	Verdict
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barri	er integrity	N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C):		_
S.3	Flammability test for the bottom of a fire enclosur	ire VST CS Test	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	See Table 4.1.2 only.	Р
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C):		
Т	MECHANICAL STRENGTH TESTS		Р
T.1	General		N/A
T.2	Steady force test, 10 N:	(See appended table T.2)	Р
T.3	Steady force test, 30 N:	(See appended table T.3)	Р
T.4	Steady force test, 100 N:		N/A
T.5	Steady force test, 250 N:		N/A
T.6	Enclosure impact test		N/A
	Fall test		N/A
	Swing test		N/A
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	T	N/A





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V	<u> </u>	
	IEC 62368-1	
Clause	Requirement + Test Result - Remark	Verdic
Г.11	Test for telescoping or rod antennas	N/A
	Torque value (Nm):	N/A
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION	N/A
U.1	General	N/A
	Instructional safeguard:	N/A
U.2	Test method and compliance for non-intrinsically protected CRTs	N/A
U.3	Protective screen	N/A
V	DETERMINATION OF ACCESSIBLE PARTS	Р
V.1	Accessible parts of equipment	Р
V.1.1	General	Р
V.1.2	Surfaces and openings tested with jointed test probes	Р
V.1.3	Openings tested with straight unjointed test probes	Р
V.1.4	Plugs, jacks, connectors tested with blunt probe	Р
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
X	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)	N/A
	Clearance	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES	N/A
Y.1	General	N/A
Y.2	Resistance to UV radiation	N/A
Y.3	Resistance to corrosion	N/A
Y.3	Resistance to corrosion	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	N/A
Y.3.2	Test apparatus	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	N/A
Y.3.4	Test procedure:	N/A
Y.3.5	Compliance	N/A
Y.4	Gaskets	N/A
Y.4.1	General	N/A
Y.4.2	Gasket tests	N/A
Y.4.3	Tensile strength and elongation tests	N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
1.05 " 137"	Alternative test methods:	3.755 41111 135**	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 enclos	sure	N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		N/A
	Relevant tests of IEC 60529 or Y.5.3:		N/A
Y.5.3	Water spray test		N/A
Y.5.4	Protection from plants and vermin		N/A
Y.5.5	Protection from excessive dust		N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment		N/A
Y.6	Mechanical strength of enclosures		N/A
Y.6.1	General		N/A
Y.6.2	Impact test:		N/A





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		IEC 62368-1		
Clause	Requirement + Test		Result - Remark	Verdict
a mil As	(7)	MI RE 177	RE TO	

5.2 T	5.2 TABLE: Classification of electrical energy sources									
Supply Voltage	Location (e.g.	Test conditions	Parameters							
Vollage	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class			
5Vdc(Max input)	All circuits	Normal	5VdcMa x.		SS	DC	ES1			

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)	Comm	ents		
Supplement	ary information:							

5.4.1.10.2	TABLE: Vicat soft	ening temperature of thermop	lastics (1997)	N/A
Method			-7 _{Ce} ,	- <u>1</u> 2 —
Object/ Par	t No./Material	Thickness (mm)	T softening (°C)	
Supplement	tary information:			

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)		ession ter (mm)	
Supplement	ary information:							

5.4.2, 5.4.3	5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance								
Clearance (creepage distriction)	sťance	U _p (V)	U _{rms} (V)	Freq 1) (Hz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)



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V									
				IEC 6	32368-1				
Clause	Requirem	nent + Test	- 1			ı	Result - Remark		Verdict
A IIII AS	(1)		(本河) 展生	Ŋ			A TIMBE 177		T.A.
Liff Amering	Lab	1011	Testing L	ab		1501	Till for Testing Lab	15	T Tillian
Suppleme	entary informa	ation:	,			100	100	40	100
1) Only fo	r frequency a	above 30 kHz							
2) Comple	ete Electric S	Strength voltage	e (E.S. (\	√) when	5.4.2.4	applie	ed)		

5.4.4.2	TABLE: Minimun	TABLE: Minimum distance through insulation								
Distance through insulation (DTI) at/of		Peak voltage (V)	Insulation	Required DTI (mm)	Mea	sured DTI (mm)				
	.人.删股份		删股份		-	服股份				
Supplementary information:										

5.4.4.9	TABLE: Solid in	TABLE: Solid insulation at frequencies >30 kHz							
Insulation material		E_{P}	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)		
Supplementary information:									

5.4.9 TABLE: Electric strength tests		~ 测股份		N/A
Test voltage applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	_	eakdown es / No
Supplementary information:				

5.5.2.2	TABLE:	Stored discharge of	n capacitors				N/A
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	E	S Class
UZI II	Haring Testing	.ab	Testing La		五江洲	业17 es1	ting-Lab
Supplement	tary inforr	nation:	Los Los		Tres		
X-capacitor:	s installed	d for testing:					
☐ bleeding	resistor i	ating:					
☐ ICX:							
1) Normal of	operating	condition (e.g., norm	al operation, or open	fuse), SC= shor	t circuit, OC= o	pe	n circuit

5.6.6	TABLE: Resistance of	ABLE: Resistance of protective conductors and terminations							
Location		Test current (A)	Duration (min)	Voltage drop (V)	Re	sistance (Ω)			



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			Page 42	20173	керс	ort No.: LCSA	0621231028
			IEC 62	368-1			
Clause	Require	ment + Test			Result - Remar	k	Verdict
小河川野竹	Ď.		人可用技術		人。可以程度行		L/S
Testing L	ab	证 Tiff	Testing Lab	150	立計學 ng Lab		拉洲和
Supplement	tary inform	nation:		184	100		100
5.7.4	TABLE:	: Unearthed acc	essible parts				N/A
Location		Operating and	Supply		Parameter	S	ES
		fault conditions	Voltage (V)	Voltage (V _{rms} or V			
		uk		an Ha			art HA
Abbreviatio	n: SC= sh	hort circuit; OC=	open circuit	交通 Lab		ST LCS T	A Lab
5.7.5	TABLE:	: Earthed acces	sible conductive	e part			N/A
Supply volta	age (V)						
Phase(s)			[] Single Phase	e; [] Three I	Phase: [] Delta	[]Wye	
Power Dist	ribution S	ystem	TN [] TT	☐ IT		
Location			Fault Condition 60990 clause		Touch current (mA)	Com	ment
CS Tes		1 ST LCS	165.	1/62	LCST83	7	LCS TO
Supplemen	tary Infor	mation:				- 1	
	TABLE	Deal (color)					N/A
5.8	TABLE		guard in battery	-		T	N/A
Location		Supply O voltage (V)	perating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
Supplemen	tary infor	mation:		- 425			. 115
Abbreviatio	n: SC= sł	nort circuit, OC=	open circuit				
	<u> </u>						
6.2.2	TABLE	: Power source	circuit classifica	ations			Р

6.2.2	TA	ABLE: Power source		Р				
Location		Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class	
All internal circuits		Normal condition					PS1 (declaratio n)	
Supplementary information: Abbreviation: SC= short circuit; OC= open circuit								







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

1) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.

6.2.3.1	6.2.3.1 TABLE: Determination of Arcing PIS						
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value		ing PIS? es / No	

Supplementary information:

An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage (Vp) and normal operating condition rms current (Irms) is greater than 15.

WS!	CS Testing	VST ICS Testing	VS. I	STest	ing		
6.2.3.2	TABLE: Determi	nation of resistive PIS	5				
Location		Operating and fault condition	Dissipate power (W)		ing PIS? es / No		
Supplemen	ntary information:	•	•	•			

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

8.5.5 TABLE: High pr	essure lamp	- 四位T	则股份 Lab	N/A
Lamp manufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
Supplementary information:				

9.6	TABLE:	: Tempera	ture meas	urements	for wireles	ss power t	ransmitter	s	Р	
Supply volta	age (V)			:					_	
Max. transm	Max. transmit power of transmitter (W):						_			
										ver and at of 5 mm
Foreign o	bjects	Object (°C)	Ambient (°C)							
steel d	isc	27.7	25.0	29.6	25.0	28.2	25.0	26.3	25.0	
aluminiun	n ring	27.9	25.0	31.2	25.0	30.3	25.0	26.4	25.0	
aluminium foil 27.4 25.0		30.4	25.0	28.6	25.0	26.1	25.0			
Supplement	ary inforr	mation:								





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Y			<u> </u>	
		IEC 62368-1		
Clause	Requirement + Test		Result - Remark	Verdict

5.4.1.4, 6.3.2, 9.3, B.2.6	TABLE: Temperature	measuren	nents	To All	T LCS	Lesting	Lab	1	ST LCS Tes
	Supply voltage (V)		:	5Vd.c.					_
	Ambient T _{min} (°C)		:	-					_
	Ambient T _{max} (°C)		:	-					_
	Tma (°C):			-					_
Maximum measured temperature T of part/at:				T (°C)					Allowed T _{max} (°C)
PCB near U1			46	.2				上田位	130
PCB near U	3 - 10511115	V	44	.3		1 ST		ST LCS Tes	flua
Wireless wir	nding		61	.5					Ref
Enclosure in	side, near wireless win	ding	57	.3					Ref
Enclosure o	utside, near wireless wi	nding	42	.1					77
Ambient			25	.0					
Supplement	ary information:		•	•		•	•		
Temperatur	e T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ ((Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
公司服任	i di	元 拉 · 测度作	ß				份		
CS Testing L	WS I	os Testing L		74.0	TIN CS	restine	Lau-	V	TIME TOS

Supplementary information:

Note 1: Tma should be considered as directed by appliable requirement

Note 2: Tma is not included in assessment of Touch Temperatures (Clause 9)

B.2.5	TABI	LE: Input to	est					Р
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
5.0Vdc	立河 LCS Testi	1.32	2.0	6.6	A检测股价 S Testing Lab		1154	Wireless output 5W and motor working
Suppleme	entary info	rmation:						





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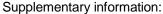
		IEC 62368-1		
Clause	Requirement + Test		Result - Remark	Verdict

B.3, B.4	TAE	BLE: Abnor	mal operating	g and fau	It condition	n te	ests		P
Ambient ten	npera	iture T _{amb} (°C	C)			:	See belo	w	
Power source	e for	EUT: Manu	facturer, mod	lel/type, o	utputrating.	:			_
Component	No.	Condition	Supply voltage (V)	Test time	Fuse no.	CL	Fuse urrent (A)	Observation	
U1 Pin 1-5		SC	5Vdc	10mins				Unit shut down imm recoverable. After to damage, no hazard.	est, no
C3	开检T STes	SC	5Vdc	10mins	A检测程的 S Testing Lab			Unit shut down imm recoverable. After to damage, no hazard.	est, no
C7		SC	5Vdc	10mins				Unit shut down immediate recoverable. After test, in damage, no hazard.	

Supplementary information:

- 1) SC: Short-circuited; OC: Over-charged; ED: Excessive-discharged
- 2) The test result shown all safeguards remained effective and didn't lead to a single fault condition during abnormal operating condition; In addition all safeguards complied with applicable requirements in this standard after restoration of normal operating conditions.

M.3	TABLE: Pr	otection circu	its fo	r batterie	es provide	ed with	in the eq	uipment	Kg1.	N/A	
Is it possible	to install the	battery in a rev	verse	polarity p	osition?	: No)	4		_	
					Ch	arging					
Equipment S	pecification		Volt	age (V)			Current (A)				
		Battery specification									
		Non-rechargeable batteries			Re	Rechargeable batteries					
		Discharging	Unintentional charging current (A)		Charging		g	Discharging		Reverse	
Manufacti	urer/type	current (A)			Voltage (/oltage (V) Curr		current (A)		rging ent (A)	
TOS LOS			-1	FI LCS				Les .			
Note: The tes	ts of M.3.2 a	re applicable o	nly wł	nen above	e appropria	ite data	is not ava	ailable.			
Specified bat	tery tempera	ture (°C)				:					
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)	Currer (A)	nt Voltag	ge Obse	Observation		
Cupplemente	ru informatio	· · · · · · · · · · · · · · · · · · ·	1	Ш			,				



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.





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

- 101010	1 10 4 111 01				11000000					
indimite the	ap M	- 117	A检测股切		立语检测图	g Lab	· 古讯检测			
M.4.2	TABLE: battery	ABLE: Charging safeguards for equipment containing a secondary lithium attery								
Maximum	specified c	harging voltag	e (V)		.:					
Maximum specified charging current (A) :										
Highest sp	ecified cha	arging tempera	ture (°C)		.:					
Lowest spe	ecified cha	rging temperat	ture (°C)		.:					
Battery		Operating		Measurement		Observatio	n			
manufactur	er/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)					
161-	CS Test	-1/51 (CST0500) 1/51 (CAT0500)								

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit; MSCV= maximum specified charging voltage; MSCC= maximum specified charging current; HSCT= highest specified charging temperature; LSCT= lowest specified charging temperature

Q.1	TABLE: Circuits inte	TABLE: Circuits intended for interconnection with building wiring (LPS)						
Output Circuit	Condition	11 ()()	Time (s)	I _{sc} (A)		S (VA)		
	Condition	U _{oc} (V)		Meas.	Limit	Meas.	Limit	
CS Testing L	VST I	S Testing L	,	AST CST	sting L	W	ST CS Tes	
	1					1		

Supplementary Information:

Abbreviation: SC= short circuit

T.2, T.3, T.4, T.5	TABLI	TABLE: Steady force test						N/A
Part/Location		Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Obse	rvation
VISA-	CS Test		MS CS	Lear.		\ 5	LCS Test	-
Supplement	ary info	rmation:						

T.6, T.9	TABLE: Impa	act test				N/A
Location/part		Material	Thickness (mm)	Height (mm)	Observation	n
Supplementary information:						





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

T.7 TABLE: Dro	p test	15	Till Testing Lab			
Location/part	Material	Thickness Height (mm)		Observation		
Enclosure outside (Top)	See appended table 4.1.2	See appended table 4.1.2	1000	No damage, no hazardous.		
Enclosure outside (Side)	See appended table 4.1.2	See appended table 4.1.2	1000	No damage, no hazardous.		
Enclosure outside (Bottom)	See appended table 4.1.2	See appended table 4.1.2	1000	No damage, no hazardous.		

Supplementary information:

Required by client.

T.8	TABLE	ABLE: Stress relief test							
Location/Part		Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	/ation		
Supplementary information:									

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









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LCS Testing Lab

	IEC 623	368-1	
Clause	Requirement + Test	Result - Remark	Verdict

17:10	ng Lab	_ tiv	Mass Lab	一世流	Ling Lab	_ till
4.1.2	TABLE	List of critical com	ponents			PST8
Object / No.	part	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Plastic enclosu	re	FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV	AC310(+)	V-0, 85°C, thickness 1.5mm	UL 94 UL 746	UL E56070
PCB		SHENZHEN SHAN XU ELECTRONIC CO LTD	SX-M1	V-0, 130°C	UL 796	UL E360487

Supplementary information: 1) Provided evidence ensures the agreed level of compliance. See OD-2039.



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Attachment No.1

T CS Test	IEC62368_TE - ATTACHMENT		
Clause	Requirement + Test	Result - Remark	Verdict

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 62368-1:2020+A11:2020

Attachment Form No...... EU_GD_IEC62368_1E

Attachment Originator: UL(Demko)

Master Attachment 2021-02-04

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	CENELEC COMMON MOI	DIFICATIONS (EN)	
	IEC 62368-1:2020+A11:20 those in the paragraph belo	s that are shaded light grey are clause references in EN 20. All other clause numbers in that column, except for ow, refers to IEC 62368-1:2018.	
	Clauses, subclauses, notes those in IEC 62368-1:2018	s, tables, figures and annexes which are additional to are prefixed "Z".	
. ar. 44	Add the following annexes:	n.始	37
工语检测版 LCS Testing Lab	Annex ZA (normative) with their cor	Normative references to international publications rresponding European publications	((3
	Annex ZB (normative)	Special national conditions	
	Annex ZC (informative)	A-deviations	
	Annex ZD (informative) cords	IEC and CENELEC code designations for flexible	
1	Modification to Clause 3	•	
3.3.19	Sound exposure		Р
	Replace 3.3.19 of IEC 623	68-1 with the following definitions:	



Attachment No.1

10 - TILL BX 11.	Attachment No.1	10 - TILL BZ 17"	/IIIF & .
3.3.19.1	momentary exposure level, MEL	Till Testing Lab	I Presti
rcs.	metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2.	102.	I res.
	Note 1 to entry: MEL is measured as A-weighted levels in dB.		
	Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.		
3.3.19.3	sound exposure, <i>E</i>		Р
一工	A-weighted sound pressure (p) squared and integrated over a stated period of time, T	工讯检测	股份 ng Lab
MSA LO	Note 1 to entry: The SI unit is Pa^2 s.	Tea Tos Iss	
	$E = \int p(t)^2 \mathrm{d}t$		
3.3.19.4	0 sound exposure level, <i>SEL</i>		Р
0.01.01.	·		
	logarithmic measure of sound exposure relative to a reference value, <i>E0</i> , typically the 1 kHz threshold of hearing in humans.		
立语检测股份 ICS Testing La	Note 1 to entry: SEL is measured as A-weighted levels in dB.	立讯检测股份 ics Testing Lab	立语检测 LCS Testi
	$SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$	TE	
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.		
3.3.19.5	digital signal level relative to full scale, dBFS		Р
	levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused		股份
TEA TO	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	LCS Tost	ng La
2	Modification to Clause 10		
10.6	Safeguards against acoustic energy sources		Р
	Replace 10.6 of IEC 62368-1 with the following:	T	
10.6.1.1	Introduction		Р
立语检测股份	Safeguard requirements for protection against long-term exposure to excessive sound pressure	在讯检测股份	世讯检测



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Attachment No.1

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.

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;

NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through

normal electronics stores 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



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Attachment No.1

TV 1320	Attachment No.1	- A - D>	LA - FIIII D
立清·加加 LCS Testing La	within a few years it will no longer exist. This exemption will not be extended to other technologies.	Till Maring Lan	Till LCS Testil
	 a player while connected to an external amplifier that does not allow the user to walk around while in use. 		
	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 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	(III)	股份
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	LCS Test	ng P
س 41	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn to EN 50360 and EN 50566.	a life	
10.6.2	Classification of devices without the capacity to	estimate sound dose	- P位洲
10.6.2.1	This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. For classifying the acoustic output <i>L</i> Aeq, <i>T</i> , 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 <i>L</i> Aeq, <i>T</i>) 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	LCS TOST	股份 19 Lab
在讯检测股份	this case, <i>T</i> becomes the duration of the song. 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	立讯检测度份	立讯检测



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Attachment No.1

	Attachment No.1	- IIII D>-	L&-\\\\
立河 Testing La	programme simulation noise to 85 dB, but the	立河 Les Testing Lau	工计位Testi
rce .	average music level of the song is only 65 dB, there is no need to give a warning or ask an	rca ,	I rea
	acknowledgement as long as the average sound		
	level of the song is not above the basic limit of 85		
	dB.		
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)		Р
	RS1 is a class 1 acoustic energy source that does		
	not exceed the following:		
	- for equipment provided as a package (player with		
l	its listening device), and with a proprietary		
1	connector between the player and its listening		
1	device, or where the combination of player and		验份
- 41	listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acoustic	· 计话位测	ad Lab
	output shall be ≤ 85 dB when playing the fixed	LCS Test	119
	"programme simulation noise" described in EN	1	
	50332-1.		
	- for equipment provided with a standardized		
1	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		
	≤ 27 mV (analogue interface) or -25 dBFS (digital		
	interface) when playing the fixed "programme simulation noise" described in EN 50332-1.		
	- The RS1 limits will be updated for all devices as per 10.6.3.2.		
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	公訓股份	P
	立河 Tiff Transplat	女语 ^在 Sting Lab	立讯程序
	RS2 is a class 2 acoustic energy source that does	/ce /ea	LCS
	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 130 detection, the LAeq, T		
	acoustic output shall be ≤ 100 dB(A) when playing		
	the fixed "programme simulation noise" as		
	described in EN 50332-1. – for equipment provided with a standardized		
	connector (for example, a 3,5 phone jack) that		
	allows connection to a listening device for general		股份
	use, the unweighted r.m.s. output voltage shall be	古讯检测	ad Lab
	≤ 150 mV (analogue interface) or -10 dBFS (digital	LCS TOST	1.5
	interface) when playing the fixed "programme	1	
	simulation noise" as described in EN 50332-1.		
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)		
10.6.3.1	General		Р
	Previous limits (10.6.2) created abundant false		
	negative and false positive PMP sound level	-1. HA	
	warnings. New limits, compliant with The	17 KE 701 BE 77	可怜那
	Commission Decision of 23 June 2009, are given	IL Wing La	TIME



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Attachment No.1

A STATE OF THE PARTY OF THE PAR	Attachment No.1	THE THE PARTY OF T	17 Kg 7 1111
10.6.3.2	below. RS1 limits (new)	Tyrving Lo	Р
VISO TO	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> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general	TEA TIR 位河	股份
1	use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme		
10.6.3.3	simulation noise" described in EN 50332-1. RS2 limits (new)		Р
立讯检测股份 LCS Testing La	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, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — 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 EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN	立语检测股份 LCS Testing Lab	立 Tin Tics Test
10.6.4	50332-1. Requirements for maximum sound exposure		ω(β)P
10.6.4.1	Measurement methods	古·托拉·河	P
- Isa u	All volume controls shall be turned to maximum during tests.	LCS Testi	
	Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.		
10.6.4.2	Protection of persons Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.		
立讯检测股份	NOTE 1 Volume control is not considered a safeguard.	立讯检测股份 coing Lab	立语检测



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A TIME TO	Attachment No.1	(4) 测股份	- A FILL B
	Between RS2 and an ordinary person, the basic 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 instructional safeguard may be	LCS Testing Lab	Till LCS Testin
	given through the equipment display during use. The elements of the instructional safeguard shall		
	be as follows:		
	- element 1a: the symbol (2011-6044 (2011-01) - element 2: "High sound pressure" or equivalent wording	立语检测	版份 Ing Lab
	 – element 3: "Hearing damage risk" or equivalent wording – element 4: "Do not listen at high volume levels for 	- Les les	
	long periods." or equivalent wording		
	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 when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.	工讯检测股份 LCS Testing Lab	
	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.	LCS Test	版份 ing Lab
	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		Р
	Personal music players shall give the warnings as provided below when tested according to EN 50332-3, 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 potifications and warnings to	四 检测股份	



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to receive the notifications and warnings to

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Attachment No.1

P -	Attachment No.1	10 EM BZ 17	. A. Till
Tikking La	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.	LCS Testing Lau	LCS Testi
TEA IC	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.	LCS Testi	股份 19 Lab
10.6.5.2	Dose-based warning and requirements		Р
	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1.		
10.6.5.3	The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss. Exposure-based requirements	在开始测度份	I Presti
LCS.	With only dose-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. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For againment provided as a package (player with its	LCS Testi	及份 19 Lab
10.6.6	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 unweighted 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. NOTE In case the source is known not to be music (or test signal), the EL may be disabled. Requirements for listening devices (headphones)	earphones etc.)	P



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	Attachment No.1		
10.6.6.1	Corded listening devices with analogue input	Testing Lab	N/A
	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 maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV.		LCS
	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.		- 05
10.6.6.2	Corded listening devices with digital input	上: T 检测	Р
	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, 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 L Aeq, T acoustic output of the listening device shall be \leq 100 dB with an input signal of -10 dBFS.	LCS Testi	Ng La-
10.6.6.3	Cordless listening devices		Р
立讯检测股份 LCS Testing Le	In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; 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 <i>L</i> Aeq, <i>T</i> acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	化检测股份 STesting Lab	立讯检测 LCS Testi
10.6.6.4	Measurement method		Р
工工	Measurements shall be made in accordance with EN 50332-2 as applicable.	立讲检测	股份 ng Lab
3	Modification to the whole document		



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	list:		The state of the s						
		0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2		
	3	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2		
	5	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3		
		5.4.2.3.2.4 Гаble 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note		
	5	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	加报份	
	5	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	ting Lar	
	5	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2		
	8	3.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2		
	4	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note		
		7.4.5	Note						
az (1)	Mod	dification	to Clause 1	868733		PLS 7.1.1			
CS.		the follow			1154	C5 765		VE IN	I/A
	and	electronic	use of certair equipment is 2011/65/EU.						

5 Modification to 4.Z1	
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Attachment No.1

	Attachment No.1		
4.Z1	Add the following new subclause after 4.9: To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating	LCS Testing Lab LCS Testing LC	N/A str
6	of the wall socket outlet.	A TIME TO THE TENE	
· ·	Modification to 5.4.2.3.2.4		
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.		N/A
7	Modification to 10.2.1		
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.		N/A

Modification to 10.5.1



Ti形控测股份 LCS Testing Lab

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Attachment No.1

	Attachment No.1	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	12.3
10.5.1	Add the following after the first paragraph:	LGS Testing Lab	N/A
	For RS 1 compliance is checked by measurement under the following conditions:		
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets 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.		
US TIP	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	工工证报位测	及份 ig Lab
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.		
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.		
立讯检测股份	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	Li开检测股份	TiR检测
LCSTesting	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	LCS Testing	LCSTest
9	Modification to G.7.1		
G.7.1	Add the following note:		N/A
	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.		

•	10	Modification to Bibliography	
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14 到 股份	是 IIII	Attachment No.1	A		MF- 04	R
直洲型 Lai	Add the following notes for the	e standards indicated	生女洲 ^和		N/A	0.9
LCSTES	Wall restead			Me		
	IEC 60130-9 NOTE I	Harmonized as EN 601	30-9.			
	IEC 60269-2 NOTE I	Harmonized as HD 602	69-2.			
	IEC 60309-1 NOTE I	Harmonized as EN 603	09-1.			
	IEC 60364 NOTE :	some parts harmonized	l in HD 384/HD 60364 series.			
	IEC 60601-2-4 NOTE I	Harmonized as EN 606	01-2-4.			
	IEC 60664-5 NOTE I	Harmonized as EN 606	64-5.			
	IEC 61032:1997 NOTE I	Harmonized as EN 610	32:1998 (not modified).			
		Harmonized as EN 615	•			
	IEC 61558-2-1 NOTE I	Harmonized as EN 615	58-2-1.			
	IEC 61558-2-4 NOTE I	Harmonized as EN 615	58-2-4.			
	IEC 61558-2-6 NOTE I	Harmonized as EN 615	58-2-6.			
	IEC 61643-1 NOTE I	Harmonized as EN 616	43-1.	. :mil F		
- 47	IEC 61643-21 NOTE I	Harmonized as EN 616	43-21.	II THE		
MS/I IC	IEC 61643-311 NOTE I	Harmonized as EN 616	43-311.	esti		
100	IEC 61643-321 NOTE I	Harmonized as EN 616	43-321.			
	IEC 61643-331 NOTE I	Harmonized as EN 616	43-331.			
11	ADDITION OF ANNEXES					
ZB	ANNEX ZB, SPECIAL NATIO		(EN)			
4.1.15	Denmark, Finland, Norway a	and Sweden			N/A	
	To the end of the subclause the	no following is				
	added:	ie following is				
	Class I pluggable equipmen	t type A intended				
- 112	for connection to other equipn				,	1
可於 测路之73	network shall, if safety relies of				1	29
Titl's Testing La	reliable earthing or if surge su				TIME	ĭ
LCS 1	are connected between the ne	etwork terminals		1/15/	rcs ,	١,
	and accessible parts, have a				,	1
	that the equipment shall be co	onnected to an				
	earthed mains socket-outlet.					
	The marking text in the application	able countries shall				
	be as follows:					
	In Denmark : "Apparatets stike	orop skal tilsluttes				
	en stikkontakt med jord som g	giver forbindelse til				
	stikproppens jord."					
	In Finland: "Laite on liitettävä	suojakoskettimilla				
	varustettuun pistorasiaan"	一直		. ~all E		
ية بد	In Norway: "Apparatet må tilk	oples jordet		人位测		
VISA 1 C	stikkontakt"	VST LCS Testing		s Testir		
132 10	In Sweden : "Apparaten skall a uttag"	anslutas till jordat				



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THE HIMS La	Attachment No.1	THE MAN LAD	古讯和政
4.7.3	United Kingdom	CS Testing	N/A
	To the end of the subclause the following is added:		
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also		
	see Annex G.4.2 of this annex		
5.2.2.2	Denmark		N/A
	After the 2nd paragraph add the following:		
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	立 语检测	
5.4.11.1	Finland and Sweden	VIST CS Test	N/A
and		1	
Annex G	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. 	LiH检测股份 Los Testing Lab	
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition		
	 passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), 	Tindilli Los Testin	
	and	1	
	 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 60384-14:2005, subclass Y2.		
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	(人)测度份	



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Attachment No.1

Lab	Attachment No.1	Lap Lap	一组加
LCS Testing	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	CS Testills	
	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.		运 份
5.5.2.1	Norway	女话检查	N/A
AST LCS	After the 3rd paragraph the following is added:	ST LCS TO ST.	
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).		
5.5.6	Finland, Norway and Sweden		N/A
	To the end of the subclause the following is added:		
(A) 558 110-	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.10.2.	and RE (f)	
5.6.1	Denmark	Lift Wing Lab	N/A
LCSTesti	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification:	CSTest.	rcz Jose
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.		
5.6.4.2.1	Ireland and United Kingdom		N/A
TET LOS	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.	LCS Testi	
5.6.4.2.1	France		N/A
	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.		



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Attachment No.1

上江河下Lab	Attachment No.1	上ab	一进河河
5.6.5.1	To the second paragraph the following is added:	LCS Testing	N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm ² to 1,5 mm ² in cross-sectional area.		
5.6.8	Norway		N/A
	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.		
5.7.6	Denmark	· 1 徐测	N/A
The Tree	To the end of the subclause the following is added:	LCS TOSTI	18 Far
	The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		
5.7.6.2	Denmark		N/A
	To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.		
5.7.7.1	Norway and Sweden		N/A
	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	T讯检测股份 Costesting Lab	立讯检测 LCS Testin
	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:	TET LCS TOSTII	设化 ig Lab
	"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)"	or (A)	
	对 拾 测 2	and the little of	



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Attachment No.1

NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator	In S Testil
shall provide electrical insulation below 5 MHz. The	
insulation shall withstand a dielectric strength of	
1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	
Translation to Norwegian (the Swedish text will	
also be accepted in Norway):	
"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	上海流 100
galvanisk isolator mellom apparatet og kabel-TV	I This Testing
nettet."	Tos.
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	
medfőra risk főr brand. Főr att undvika detta skall	
vid anslutning av apparaten till kabel-TV nät	
galvanisk isolator finnas mellan apparaten och	
kabel-TV nätet.".	
8.5.4.2.3 United Kingdom	N/A
8.5.4.2.3 Office Ringdom	IN/A
Add the following after the 2 nd dash bullet in 3 rd	I BE (A)
paragraph:	Lab 共物。
Duragraph.	ing I Me Testin
An emergency stop system complying with the	The Los
requirements of IEC 60204-1 and ISO 13850 is	
required where there is a risk of personal injury.	
B.3.1 and Ireland and United Kingdom	N/A
B.4	IN/A
The following is applicable:	
The same with a state of the same of the s	
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	THE ME ALAB
as an integral part of the direct plug-in	LCS Testil g Lab
equipment, until the requirements of Annexes	
B.3.1 and B.4 are met	
G.4.2 Denmark	N/A
V.T.2	IN/A
To the end of the subclause the following is added:	
Supply cords of single phase appliances having a	
rated current not exceeding 13 A shall be provided	
with a plug according to DS 60884-2-D1:2011	
with a plug according to DS 60884-2-D1:2011.	
CLASS I EQUIPMENT provided with socket-outlets	
	10000000000000000000000000000000000000



Shenzhen LCS Compliance Testing Laboratory Ltd.

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Report No.: LCSA110822018S

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Attachment No.1

Tab	Attachment No.1	- if fix in a Lab	一 注 注
LCS Testing	contact is required according to the wiring rules shall be provided with a plug in accordance with	LCS Testing	LCS Testil
	standard sheet DK 2-1a or DK 2-5a.		
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.		
工工证	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	,一 立语(K	文测及份 ostila Lab
- Ved ros	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	130 res ,	
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a		
	Justification:		
	Heavy Current Regulations, Section 6c		
G.4.2	United Kingdom	拉测股份	N/A
Tiff Maring Lab	To the end of the subclause the following is added:	CS Testing Lab	Till Testil
	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.		
G.7.1	United Kingdom		N/A
	To the first paragraph the following is added:		
TST TOS	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.	LEST LEST	交份 estilg Lab
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		







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Attachment No.1

	Attachment No.1			
G.7.1	Ireland 157 105 Testing	LCS Testing	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	
一寸评	To the first paragraph the following is added:	- 方讯检测	及份 g Lab	
- LCS	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.	LOS TESTI		
zc	ANNEX ZC, NATIONAL DEVIATIONS (EN)			
10.5.2	Germany		N/A	
	The following requirement applies:			
立讯检测股份 LCS Testing Lab	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. Justification: German ministerial decree against ionizing	T讯检测股份 CS Testing Lab	100	
	radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address:		***	
	Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet:			



http://www.ptb.de



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Attachment No. 1						
IEC 62368_1E ATTACHMENT						
Clause Requirement	+ Test	Result - Remark	Verdict			
古田 ^{拉河四} Lab	上 记 Millian a Lab	· 讯恒 Man Lab	一、田河河			

ZD	IEC and CENELEC CODE DESIGNATIONS F	OR FLEXIBLE C	OKDS (EN)	LCS
	Type of flexible cord Code designat		esignations	ations N/A
		IEC	CENELEC	11
	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	度份 ig Lab
	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	•		-
立译检测股份 LCS Testing Lan	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	_:五检
	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H	LCST
	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	

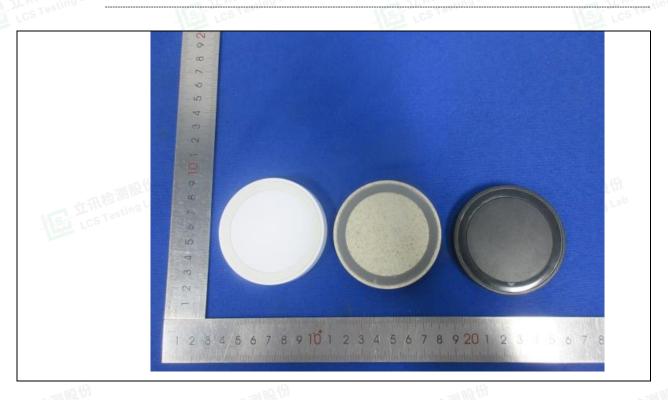




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External View Details of:



Details of: **External View**





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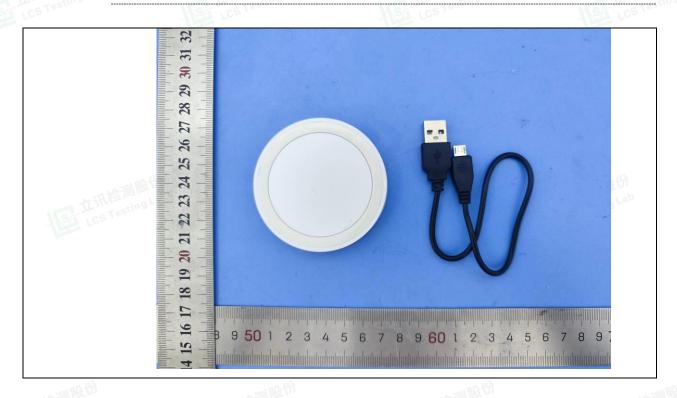
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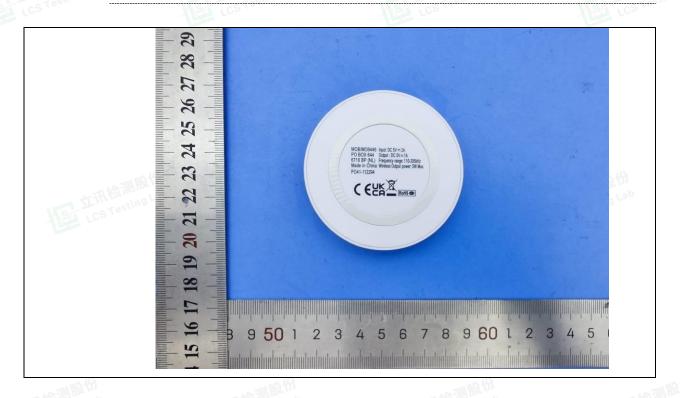
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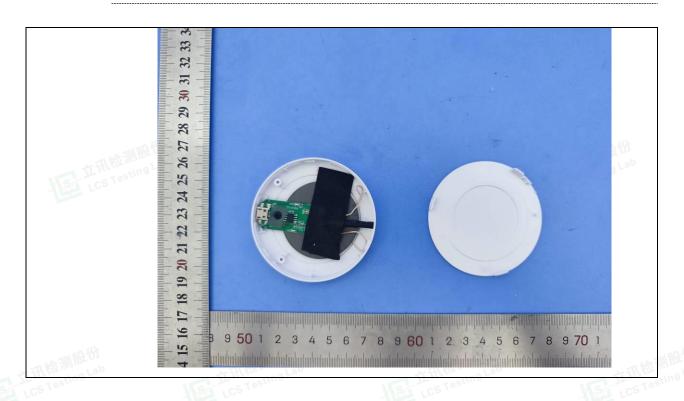
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Details of: External View



Details of: Internal View





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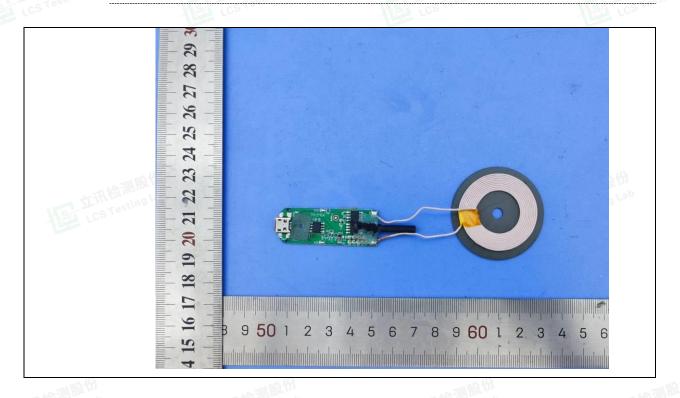




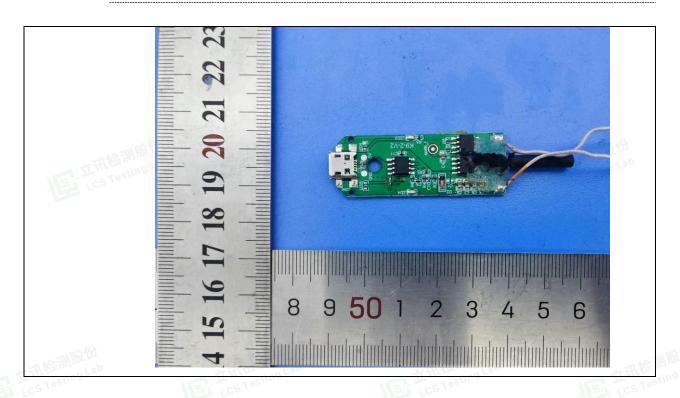
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Details of: Internal View



Details of: PCB View





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Attachment No.2

Details of: **PCB View**



-----End of Test report-----

