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### TEST REPORT EN 62368-1

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

Report Number....: LCSA08143111S

Date of issue .....: 2023-08-25

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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#### General disclaimer:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the Testing Laboratory, responsible for this Test Report.









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Test item description .....: Quick wireless charger round

 Trade Mark ......
 N/A

 Manufacturer .....
 114628

/

Model/Type reference .....: MO9787

Ratings ...... Input: 5V=== 2.0A, 9V=== 2.0A

Wireless Output: 5V=== 1A, 7.5V=== 1A, 9V=== 1.1A

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

$\boxtimes$	Testing Laboratory:	Shenzhen LCS Complia	ance 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 71
Checked by:		Benson Kuai Reviewer	Benson Know
Арр	proved by:	Hart Qiu Technical Director	Hut 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

Report No.: LCSA08143111S

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.



















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Copy of marking plate:

The artwork below may be only a draft.

MOB/MO9787 Frequency range:110-205kHz

PO BOX 644 Wireless Output power:10W Max

6710 BP(NL) Input: DC5V = 2A /9V = 2A

Made in China Output: DC 5V = 1A / 7.5V = 1A / 9V = 1.1A

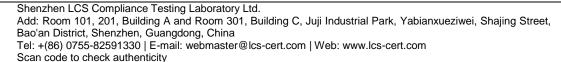
PO41-111110



Note:

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







Pa	age 5 of 73	Report No	b.: LCSA08143111S
Test item particulars:		公测股份	
Product group	end product	built-in compo	onent
Classification of use by:			dren likely present
Supply connection:	not mains conne	ected:	mains
Supply tolerance:		□ ES2 □ ES3	)
Supply connection – type:	None (Not direct ☐ pluggable equip	ly connected to t	the mains)
184 Ce Jes	☐ appliar ☐ direct p ☐ pluggable equipi ☐ non-de	J	
	permanent conn mating connecto other: Not direct	ection or	mains
Considered current rating of protective device:	☐ A; Location: ☑ N/A	building	☐ equipment
Equipment mobility:		☐ hand-held ☐ stationary nted ☐ SRME	
Overvoltage category (OVC)::	☐ other: ☐ OVC I ☐ OVC IV mains	☐ OVC II ⊠ other: Not dire	OVC III
Class of equipment::	☐ Class I ☐ Not classified	☐ Class II	⊠ Class III
Special installation location:		□ □ restricted acc □	ess area
Pollution degree (PD)::	TOSTILL	PD 2	☐ PD 3
Manufacturer's specified T <sub>ma</sub> :	25 °C  Outdoor:	minimum	°C
IP protection class:	⊠ IPX0	☐ IP	
Power systems:	☐ TN ☐ TT ☐ not AC mains	∏ IT - V₁	-L
Altitude during operation (m):	□ 2000 m or less	☐ m	





Altitude of test laboratory (m) .....:  $\boxtimes$  500 m or less  $\square$ 

Mass of equipment (kg) .....: Approx. <u>0.055</u> kg





Possible test case verdicts:	NA ITS 工语控制 Lab		
- test case does not apply to the test object:	N/A		
- test object does meet the requirement:	P (Pass)		
- test object does not meet the requirement:	F (Fail)		
Testing:			
Date of receipt of test item:	2023-08-14		
Date (s) of performance of tests 2023-08-14 to 2023-08-28			
General remarks:	an th		
in this report are all provided by the applicant, a authenticity.	is used as the decimal separator. roduct name, model, trademark and other information and this laboratory is not responsible for verifying its		
Manufacturer's Declaration per sub-clause 4.2.	1		
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes ☑ Not applicable		
The second provided in	Tes reels.		
When differences exist; they shall be identified	in the General product information section.		
Name and address of factory (ies)::	Same as the Applicant		
General product information and other remark	is:		
Product Description 1. The EUT is a Wireless Charger, class III eq 2. The maximum ambient temperature is 25°0	· ·		











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**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:9VDC) 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



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#### **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

LCS Testing Lab

TH拉测股份

NS 立洲被测股份

上ST 立讯检测股份

化多型 拉语检测股份

IST LCS Testing Lab





















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68-1	
Result - Remark	Verdict
女用检测 BLab	立讯检查

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 Retti
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	ar th	N/A
4.1.8	Liquids and liquid filled components (LFC)	古语位 ing Lab	N/A
4.1.15	Markings and instructions	(See Annex F)	P
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	Agg ros	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	4117	N/A
4.4.5	Safety interlocks	上五位测度 nab	N/A





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.5	Explosion	Title implement	Р
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:	- 和校测	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
识检测股节	Open torque test	· 海检测股份	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	VST rcs ,	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:	立 it to 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
四检测股节	Test with test probe from Annex V	可检测股份	-
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)	REHP
5.4.1.5	Pollution degrees:	2 Visit ics Test	P
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:	4年制股份	N/A







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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.9	Insulating surfaces	Title implan	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	7	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	女讯检测	N/A
18ª	Clearances in circuits connected to AC Mains, Alternative method	184 reste	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		_
5.4.2.3.2.5	Transient voltage determined by measurement:	立河位为 Lab	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test:	103	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	I I I I I I I I I I I I I I I I I I I	N/A
5.4.3.3	Material group:	100	_
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	, 113v	N/A
5.4.4.5	Insulating compound forming cemented joints	上语物测度和	N/A







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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.6	Thin sheet material	Title implan	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	<b>工</b> 讯检测	N/A
5.4.4.7	Solid insulation in wound components	ST rce in	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 <sub>R</sub> :		N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test	- 15	N/A 👔
5.4.5.3	Insulation resistance (M $\Omega$ ):	上讯检测股 <sup>仍</sup>	N/A
LCS Testing	Electric strength test:	LCS Testino	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	上语位 <sup>测</sup>	N/A
5.4.9.1	Test procedure for type test of solid insulation:	1150 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	上语检测度 <sup>173</sup>	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	LCS 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
- T	Rated operating voltage U <sub>op</sub> (V):	女讯检测	
1/81 F	Nominal voltage U <sub>peak</sub> (V):	LCS Tes	_
	Max increase due to variation $\Delta U_{sp}$ :		_
	Max increase due to ageing $\Delta U_{sa}$ :		_
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:	<b>公园股份</b>	N/A
5.4.12.4	Container for insulating liquid:	I Westing Law	N/A
5.5	Components as safeguards	1	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	<b>元於測股份</b>	N/A



Shenzhen LCS Compliance Testing Laboratory Ltd.

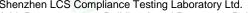
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com



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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):		_
-	Protective earthing conductor serving as a reinforced safeguard	これ位別	N/A
181 F	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):	<b>公</b> 测股份	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 $(\Omega)$ or voltage drop:		N/A
5.6.7	Reliable connection of a protective earthing conductor		N/A
5.6.8	Functional earthing	立语位为	N/A
TAN L	Conductor size (mm²):	Top res	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	在用检测股份	N/A





Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com



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	D		.,
Clause	Requirement + Test	Result - Remark	Verdict
5.7.4	Unearthed accessible parts:	Till Testing 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	IIST 立语位	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
- TILL RE- Y	Air gap (mm):	一個股份	N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS		Р
6.2.2	Power source circuit classifications:	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources		Р
6.2.3.1	Arcing PIS		N/A
6.2.3.2	Resistive PIS:		Р
6.3	Safeguards against fire under normal operating and abnormal operating conditions		P 股份
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)	ng P
	Combustible materials outside fire enclosure:		N/A
6.4	Safeguards against fire under single fault condition	ons	Р
6.4.1	Safeguard method		Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		Р
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	A THE 19	Р





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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
6.4.3.1	Supplementary safeguards	工 ift to Testing Lab	TP
6.4.3.2	Single Fault Conditions:	I ree	P
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		Р
6.4.5	Control of fire spread in PS2 circuits		Р
6.4.5.2	Supplementary safeguards		Р
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	二五位刊	N/A
6.4.7.3	Separation by a fire barrier	15 LCS Test	N/A
6.4.8	Fire enclosures and fire barriers	1	Р
6.4.8.2	Fire enclosure and fire barrier material properties		N/A
6.4.8.2.1	Requirements for a fire barrier		N/A
6.4.8.2.2	Requirements for a fire enclosure		Р
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	· 讯检测度D	N/A
6.4.8.3.3	Top openings and properties	LCS Testins	N/A
	Openings dimensions (mm):	No openings	N/A
6.4.8.3.4	Bottom openings and properties		N/A
	Openings dimensions (mm):	No openings	N/A
	Flammability tests for the bottom of a fire enclosure		N/A
	Instructional Safeguard:		N/A
6.4.8.3.5	Side openings and properties		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):	THE LCS TOST	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:		Р
6.4.9	Flammability of insulating liquid:		N/A
6.5	Internal and external wiring		Р
6.5.1	General requirements		Р
6.5.2	Requirements for interconnection to building wiring		N/A
6.5.3	Internal wiring size (mm²) for socket-outlets:	THE HIT	N/A







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	IEC 6236	8-1	
Clause	Requirement + Test	Result - Remark	Verdict
6.6	Safeguards against fire due to the conne	ction to additional equipment	TP

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	
7.2	Reduction of exposure to hazardous substances	
7.3	Ozone exposure	
7.4	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	Mechanical energy source classifications		Р
8.3	Safeguards against mechanical energy sources		N/A
8.4	Safeguards against parts with sharp edges and co	orners	Р
8.4.1	Safeguards		N/A
- TIME H	Instructional Safeguard:	-mi R2 43	N/A
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded (MS1).	TP NE
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
	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
	Moving MS3 parts only accessible to skilled person		N/A
8.5.2	Instructional safeguard:	- 10	N/A
8.5.4	Special categories of equipment containing moving parts	LCS Test	N/A
8.5.4.1	General		N/A
8.5.4.2	Equipment containing work cells with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work cell		N/A
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system		N/A
8.5.4.2.2.2	Visual indicator		N/A
8.5.4.2.3	Emergency stop system	(A) 测股份	N/A







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	IEC 62368-1	T	
Clause	Requirement + Test	Result - Remark	Verdict
Lik Testing L	Maximum stopping distance from the point of activation (m)	LCS Testing Lab	N/A
	Space between end point and nearest fixed mechanical part (mm):		N/A
8.5.4.2.4	Endurance requirements		N/A
	Mechanical system subjected to 100 000 cycles of operation		N/A
	- Mechanical function check and visual inspection		N/A
	- Cable assembly		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	USL 立语检测	N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:		N/A
8.5.4.3.3	Disconnection from the supply		N/A
8.5.4.3.4	Cut type and test force (N)		N/A
8.5.4.3.5	Compliance		N/A
8.5.5	High pressure lamps		N/A
and the	Explosion test	107-4A	N/A
8.5.5.3	Glass particles dimensions (mm)	古语位 plab	N/A
8.6	Stability of equipment	rce /e	N/A
8.6.1	General		N/A
	Instructional safeguard:		N/A
8.6.2	Static stability		N/A
8.6.2.2	Static stability test		N/A
8.6.2.3	Downward force test		N/A
8.6.3	Relocation stability		N/A
٠.	Wheels diameter (mm):	二五位刊	_
1194	Tilt test	LCS Test	N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test		N/A
8.7	Equipment mounted to wall, ceiling or other struc	ture	N/A
8.7.1	Mount means type		N/A
8.7.2	Test methods		N/A
	Test 1, additional downwards force (N):		N/A
识检测股份	Test 2, number of attachment points and test force (N)	六讯位测股份	N/A





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V	IEC 62368-1	Report No.: LOOMOO	
Clause	Requirement + Test	Result - Remark	Verdict
CS Testing La	Test 3 Nominal diameter (mm) and applied torque (Nm)	LCS Testing Lab	N/A
8.8	Handles strength		N/A
8.8.1	General		N/A
8.8.2	Handle strength test		N/A
	Number of handles		_
	Force applied (N):		
8.9	Wheels or casters attachment requirements		N/A
8.9.2	Pull test	- **	N/A
8.10	Carts, stands and similar carriers	IST CS Test	N/A
8.10.1	General		N/A
8.10.2	Marking and instructions		N/A
8.10.3	Cart, stand or carrier loading test		N/A
	Loading force applied (N)		N/A
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability		N/A
nr. H	Force applied (N)	an th	_
8.10.6	Thermoplastic temperature stability	女话检测 Relab	N/A
8.11	Mounting means for slide-rail mounted equipment	(SRME)	N/A
8.11.1	General		N/A
8.11.2	Requirements for slide rails		N/A
	Instructional Safeguard:		N/A
8.11.3	Mechanical strength test		N/A
8.11.3.1	Downward force test, force (N) applied:		N/A
8.11.3.2	Lateral push force test		N/A
8.11.3.3	Integrity of slide rail end stops	_ 44:	N/A
8.11.4	Compliance	I I I I I I I I I I I I I I I I I I I	N/A
8.12	Telescoping or rod antennas		N/A
	Button/ball diameter (mm):		

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits		N/A
9.3.1		(See appended table 5.4.1.4, 6.3.2, 9.3, B.2.6)	N/A





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V V		·		
IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
TO - 11111 DX	- 1/2 - IIII D>- "	- 75 - IIII I35-	1.0	
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		Р
10.2.1	General classification	LED only used for indicating classified as RS1.	Р
	Lasers:		_
~ II.	Lamps and lamp systems:	. 1134	_
讯检测度	Image projectors:	古讯检测度 Lab	
CS Testing	X-Ray:	LCS Testing	_
	Personal music player:		_
10.3	Safeguards against laser radiation		N/A
	The standard(s) equipment containing laser(s) comply:		N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)		N/A
10.4.1	General requirements		N/A
, T	Instructional safeguard provided for accessible radiation level needs to exceed	立讯检测	N/A
184	Risk group marking and location:	-153 rcs.	N/A
	Information for safe operation and installation		N/A
10.4.2	Requirements for enclosures		N/A
	UV radiation exposure:		N/A
10.4.3	Instructional safeguard:		N/A
10.5	Safeguards against X-radiation		N/A
10.5.1	Requirements		N/A
河检测股节	Instructional safeguard for skilled persons:	上田检测股 <sup>物</sup>	_





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
10.5.3	Maximum radiation (pA/kg):	Till Lab	_
10.6	Safeguards against acoustic energy sources	Te	N/A
10.6.1	General		N/A
10.6.2	Classification		N/A
	Acoustic output L <sub>Aeq,T</sub> , dB(A):		N/A
	Unweighted RMS output voltage (mV):		N/A
	Digital output signal (dBFS):		N/A
10.6.3	Requirements for dose-based systems		N/A
10.6.3.1	General requirements	上·讯检测	N/A
10.6.3.2	Dose-based warning and automatic decrease	NST LCS TOST	N/A
10.6.3.3	Exposure-based warning and requirements		N/A
	30 s integrated exposure level (MEL30):		N/A
	Warning for MEL ≥ 100 dB(A):		N/A
10.6.4	Measurement methods		N/A
10.6.5	Protection of persons		N/A
	Instructional safeguards:		N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	立讯检测股份	N/A
10.6.6.1	Corded listening devices with analogue input	LCSTestino	N/A
	Listening device input voltage (mV):		N/A
10.6.6.2	Corded listening devices with digital input		N/A
	Max. acoustic output L <sub>Aeq,T</sub> , dB(A)		N/A
10.6.6.3	Cordless listening devices		N/A
	Max. acoustic output L <sub>Aeq,T</sub> , dB(A):		N/A

В	CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		度代P a Lab
B.1			Р
B.1.5	Temperature measurement conditions	(See appended table 5.4.1.4, 6.3.2, 9.3, B.2.6 and appended table 9.3)	Р
B.2	Normal operating conditions		Р
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	- RM



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
B.2.5	Input test:	(See appended table B.2.5)	TP
B.3	Simulated abnormal operating conditions	100	N/A
B.3.1	General		N/A
B.3.2	Covering of ventilation openings		N/A
	Instructional safeguard:		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	T. a.	N/A
B.3.6	Reverse battery polarity	Till Till Till Till Till Till Till Till	N/A
B.3.7	Audio amplifier abnormal operating conditions	100	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions:		N/A
B.4	Simulated single fault conditions		Р
B.4.1	General		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)	PSTE
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)	P 服份
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
B.4.8	Compliance during and after single fault conditions	No change to circuits classified in 5.3, no any flame occurred.	Р
B.4.9	Battery charging and discharging under single fault conditions		N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV rac	diation	N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
C.1.2	Requirements	工社位 Jun Date	N/A
C.1.3	Test method	res	N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus:		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	- II 检测	N/A
D.2	Antenna interface test generator	LCS Test	N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINI	NG AUDIO AMPLIFIERS	N/A
E.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):		
-mi BG (	Instructional safeguard:	-mi RG (f)	_
E.2	Audio amplifier normal operating conditions	Till Tasting Lab	N/A
roe in	Audio signal source type:	resto	_
	Audio output power (W):		_
	Audio output voltage (V):		
	Rated load impedance (Ω):		
	Requirements for temperature measurement		N/A
E.3	Audio amplifier abnormal operating conditions		N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND I SAFEGUARDS	NSTRUCTIONAL	P
F.1 (S)	General	USA CS Test	ng P
100	Language:	English version provided and checked.	_
F.2	Letter symbols and graphical symbols		Р
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	Р
THE PERSON	ab 上海河 han Lab	7010.	上话随







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İ	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
F.3	Equipment markings	Title in the Lab	P
F.3.1	Equipment marking locations	The required marking is located on the product is easily visible.	Р
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	and the same of th	N/A
F.3.3.2	Equipment without direct connection to mains	其语检测	ng LP
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	_
F.3.3.4	Rated voltage:	See copy of marking plate.	_
F.3.3.5	Rated frequency:		_
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	181 rcs is	N/A
F.3.6.1.1	Protective earthing conductor terminal:		N/A
F.3.6.1.2	Protective bonding conductor terminals:		N/A
F.3.6.2	Equipment class marking:		N/A
F.3.6.3	Functional earthing terminal marking:		N/A
F.3.7	Equipment IP rating marking:	IPX0.	
F.3.8	External power supply output marking:		N/A





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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	LCS Tes
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. After each test, the marking	B 股份 ng Lab
		remained legible.	_
F.4	Instructions	T	P
	a).Information prior to installation and initial use		P
	b). Equipment for use in locations where children not likely to be present		N/A
-15	c). Instructions for installation and interconnection		Р
	d). Equipment intended for use only in restricted access area	立语位测度以 coresting Lab	N/A
Los	e). Equipment intended to be fastened in place	100	N/A
	f). Instructions for audio equipment terminals		N/A
	g). Protective earthing used as a safeguard		N/A
	h) Protective conductor current exceeding ES2 limits		N/A
	i). Graphic symbols used on equipment		Р
	j). Permanently connected equipment not provided with all-pole mains switch		N/A
1	k) Replaceable components or modules providing safeguard function	<b>立</b> 讯检测	N/A
1/21 r	l). Equipment containing insulating liquid	Ved ros	N/A
	m) Installation instructions for outdoor equipment		N/A
F.5	Instructional safeguards		N/A
G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General	No switch used.	N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.1.3	Test method and compliance	一会测股份	N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.2	Relays	Title implan	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		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
- ti	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	—	N/A
Tea r	Thermal cut-outs tested as part of the equipment as indicated in c)	- Tea real	N/A
G.3.1.2	Test method and compliance		N/A
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics		N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors	No PTC thermistor used.	N/A
G.3.4	Overcurrent protection devices	LCS Testing	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		N/A
G.3.5.2	Single faults conditions:		N/A
G.4	Connectors		N/A
G.4.1	Spacings		N/A
G.4.2	Mains connector configuration:	- 1A-31	N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	LET LOSTOS	N/A
G.5	Wound components		N/A
G.5.1	Wire insulation in wound components		N/A
G.5.1.2	Protection against mechanical stress		N/A
G.5.2	Endurance test		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
人和服役份	Test time (days per cycle):	(人) 服役份	_







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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
IH Testing L	Test temperature (°C)	Tillia implan	
G.5.2.3	Wound components supplied from the mains	Too.	N/A
G.5.2.4	No insulation breakdown		N/A
G.5.3	Transformers		N/A
G.5.3.1	Compliance method:		N/A
	Position:		N/A
	Method of protection:		N/A
G.5.3.2	Insulation		N/A
24	Protection from displacement of windings:	<b>上田位</b> 测	
G.5.3.3	Transformer overload tests	151 LCS Test	N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding temperatures		N/A
G.5.3.3.3	Winding temperatures – alternative test method		N/A
G.5.3.4	Transformers using FIW	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	wall BTS (F)	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	THE TOSTING LAD	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core		N/A
G.5.3.4.5	Thermal cycling test and compliance		N/A
G.5.3.4.6	Partial discharge test		N/A
G.5.3.4.7	Routine test		N/A
G.5.4	Motors		Р
G.5.4.1	General requirements	DC stepper motors used, model: 24BYJ48-5V.	Beth Beth
MST 1	用能物 Lab Ting Lab UST CS Testing Lab	No test required.	109
G.5.4.2	Motor overload test conditions		N/A
G.5.4.3	Running overload test		N/A
G.5.4.4.2	Locked-rotor overload test		N/A
	Test duration (days):		_
G.5.4.5	Running overload test for DC motors	DC stepper motors used, model: 24BYJ48-5V.	N/A
		No test required.	
G.5.4.5.2	Tested in the unit	可於測度73	N/A





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.5.3	Alternative method	Titl Esting Lab	N/A
G.5.4.6	Locked-rotor overload test for DC motors	DC stepper motors used, model: 24BYJ48-5V.  No test required.	N/A
G.5.4.6.2	Tested in the unit		N/A
	Maximum Temperature:		N/A
G.5.4.6.3	Alternative method		N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors	\sigma=1111	N/A
G.5.4.9	Series motors	T Till Test	N/A
180	Operating voltage:	100	_
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation		N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements		N/A
	Type:	- u5	_
G.7.2	Cross sectional area (mm <sup>2</sup> or AWG):		N/A
G.7.3	Cord anchorages and strain relief for non-detachable power supply cords	LCS Testin	N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N)		N/A
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material		N/A
G.7.4	Cord Entry	古讯检测	N/A
G.7.5	Non-detachable cord bend protection	LCS Tes	N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Test method and compliance		N/A
	Overall diameter or minor overall dimension, <i>D</i> (mm):		_
	Radius of curvature after test (mm):		_
G.7.6	Supply wiring space		N/A
G.7.6.1	General requirements	ion 44	N/A
G.7.6.2	Stranded wire	士语 tab	N/A





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Clause	Requirement + Test	Result - Remark	Verdict
G.7.6.2.1	Requirements	Title in Because I in the Indian I in the Indi	N/A
G.7.6.2.2	Test with 8 mm strand	1000	N/A
G.8	Varistors	1	N/A
G.8.1	General requirements		N/A
G.8.2	Safeguards against fire		N/A
G.8.2.1	General		N/A
G.8.2.2	Varistor overload test		N/A
G.8.2.3	Temporary overvoltage test		N/A
G.9	Integrated circuit (IC) current limiters	- 田位 <sup>河</sup>	N/A
G.9.1	Requirements	1150 LCS Test	N/A
	IC limiter output current (max. 5A):		
	Manufacturers' defined drift:		
G.9.2	Test Program		N/A
G.9.3	Compliance		N/A
G.10	Resistors		N/A
G.10.1	General		N/A
G.10.2	Conditioning	- 18 B	N/A
G.10.3	Resistor test	Tin Aming Lab	N/A
G.10.4	Voltage surge test	TC3,62	N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers	nkill	N/A
184 F	Optocouplers comply with IEC 60747-5-5 with specifics	LCS Test	N/A
	Type test voltage V <sub>ini,a</sub> :		
	Routine test voltage, V <sub>ini, b</sub> :		_
G.13	Printed boards		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







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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.13.4	Insulation between conductors on the same inner surface	Tritle Junior Lab	N/A
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation:		N/A
	Number of insulation layers (pcs):		_
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2	Test method and compliance		N/A
G.14	Coating on components terminals	- A	N/A
G.14.1	Requirements	No coating on component terminals used.	N/A
G.15	Pressurized liquid filled components		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	-11 FE 43	N/A
G.15.2.4	Vibration test	立识位为 Lab	N/A
G.15.2.5	Thermal cycling test	rca	N/A
G.15.2.6	Force test		N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)		N/A
G.16.1	Condition for fault tested is not required		N/A
	ICX with associated circuitry tested in equipment		N/A
	ICX tested separately		N/A
G.16.2	Tests	m the little man to the little	N/A
AST I	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	LCS Test	_
	Mains voltage that impulses to be superimposed on:		_
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:		_
G.16.3	Capacitor discharge test:		N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General	-a 113r	N/A
H.2	Method A	上、用检测 R2 T2	N/A





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
H.3	Method B	Till Maring Lab	N/A
H.3.1	Ringing signal	To The state of th	N/A
H.3.1.1	Frequency (Hz):		
H.3.1.2	Voltage (V):		
H.3.1.3	Cadence; time (s) and voltage (V):		
H.3.1.4	Single fault current (mA)::		_
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
H.3.2.2	Tripping device	UST CS Test	N/A
H.3.2.3	Monitoring voltage (V):	122	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUNSULATION	JT INTERLEAVED	N/A
J.1	General		N/A
	Winding wire insulation:		
	Solid round winding wire, diameter (mm):		N/A
· A STILL PREM	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	. 心测股份	N/A
J.2/J.3	Tests and Manufacturing	Till Testing Lab	立河
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
	Instructional safeguard:		N/A
K.2	Components of safety interlock safeguard mech	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	二五位列	N/A
K.6	Mechanically operated safety interlocks	LCS Test	N/A
K.6.1	Endurance requirement		N/A
K.6.2	Test method and compliance:		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements		N/A
	In circuit connected to mains, separation distance for contact gaps (mm):		N/A
	In circuit isolated from mains, separation distance for contact gaps (mm)		N/A





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
. >	Electric strength test before and after the test of K.7.2	. 1/2 - 101/ De-	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	<b>EQUIPMENT CONTAINING BATTERIES AND THE</b>	EIR PROTECTION CIRCUITS	N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells	上语检测版》	N/A
M.2.1	Batteries and their cells comply with relevant IEC standards:		N/A
M.3	Protection circuits for batteries provided within the equipment		N/A
M.3.1	Requirements		N/A
M.3.2	Test method		N/A
	Overcharging of a rechargeable battery	(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
M.3.3	Compliance		N/A
M.4	Additional safeguards for equipment containing battery	a portable secondary lithium	N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Requirements	一篇	N/A



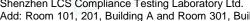


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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
M.4.2.2	Compliance ::	. 3.25c citing 13000	N/A
M.4.3	Fire enclosure:		N/A
M.4.4	Drop test of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation and procedure for the drop test		N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::		N/A
M.4.4.4	Check of the charge/discharge function		N/A
M.4.4.5	Charge / discharge cycle test		N/A
M.4.4.6	Compliance		N/A
M.5	Risk of burn due to short-circuit during carrying	1	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 batter	ies	N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
	Calculated hydrogen generation rate:		N/A
M.7.2	Test method and compliance		N/A
	Minimum air flow rate, Q (m <sup>3</sup> /h)		N/A
M.7.3	Ventilation tests		N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A
	Hydrogen gas concentration (%)		N/A
M.7.3.3	Ventilation test – alternative 2		N/A
	Obtained hydrogen generation rate:		N/A
M.7.3.4	Ventilation test – alternative 3		N/A
	Hydrogen gas concentration (%):		N/A
M.7.4	Marking:		N/A
M.8	Protection against internal ignition from external with aqueous electrolyte	spark sources of batteries	N/A
M.8.1	General		N/A
M.8.2	Test method	士····································	N/A





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
M.8.2.1	General	3.25 NIII De-	N/A
M.8.2.2	Estimation of hypothetical volume $V_Z$ (m <sup>3</sup> /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 AN	D CLEARANCES	N/A
	Value of X (mm)		_
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	S	N/A
P.1	General	No PS3 circuits	N/A
P.2	Safeguards against entry or consequences of entry of a foreign object		
P.2.1	General		N/A
P.2.2	Safeguards against entry of a foreign object		N/A
	Location and Dimensions (mm):		_
P.2.3	Safeguards against the consequences of entry of a foreign object		N/A
P.2.3.1	Safeguard requirements		N/A
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment		N/A
	Transportable equipment with metalized plastic parts:		N/A
P.2.3.2	Consequence of entry test:		N/A
P.3	Safeguards against spillage of internal liquids	The Low	N/A
P.3.1	General		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Compliance		N/A
P.4	Metallized coatings and adhesives securing parts	S	N/A
P.4.1	General		N/A
P.4.2	Tests		N/A







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	IEC 62368-1	
Clause	Requirement + Test Result - Remark	Verdic
TVS# 4/11/1/1984	Conditioning, T <sub>C</sub> (°C):	_
	Duration (weeks):	_
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING	Р
Q.1	Limited power sources	Р
Q.1.1	Requirements	Р
	a) Inherently limited output	N/A
	b) Impedance limited output	Р
	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:	Р
	Current rating of overcurrent protective device (A)	N/A
Q.2	Test for external circuits – paired conductor cable	N/A
	Maximum output current (A):	N/A
	Current limiting method:	
R	LIMITED SHORT CIRCUIT TEST	N/A
R.1	General	N/A
R.2	Test setup	N/A
	Overcurrent protective device for test:	
R.3	Test method	N/A
	Cord/cable used for test:	_
R.4	Compliance	N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	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	N/A
	Samples, material:	
	Wall thickness (mm):	_
	Conditioning (°C):	_
	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
	- Material not consumed completely	N/A
	- Material extinguishes within 30s	N/A
	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A







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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
_ 3.2× *      13×*	Samples, material:	. L. & - 1111 132-	
	Wall thickness (mm):		_
	Conditioning (°C):		_
S.3	Flammability test for the bottom of a fire enclosu	re	N/A
S.3.1	Mounting of samples		N/A
S.3.2	Test method and compliance		N/A
	Mounting of samples:		_
	Wall thickness (mm):		
S.4	Flammability classification of materials	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	,	N/A
	Number of particles counted		N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm)		N/A
U	MECHANICAL STRENGTH OF CATHODE RAY TU AGAINST THE EFFECTS OF IMPLOSION	BES (CRT) AND PROTECTION	N/A
U.1	General		N/A
	Instructional safeguard:		N/A





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V	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
U.2	Test method and compliance for non-intrinsical	lly 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
х	ALTERNATIVE METHOD FOR DETERMINING C IN CIRCUITS CONNECTED TO AN AC MAINS N (300 V RMS)		N/A
	Clearance	:	N/A
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDO	OOR ENCLOSURES	N/A
Y.1	General		N/A
Y.2	Resistance to UV radiation		N/A
Y.3	Resistance to corrosion	ST TC2	N/A
Y.3	Resistance to corrosion	•	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant 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 (1)	立讯位 <sup>测</sup>	N/A
Y.4.1	General		N/A
Y.4.2	Gasket tests		N/A
Y.4.3	Tensile strength and elongation tests		N/A
	Alternative test methods	:	N/A
Y.4.4	Compression test		N/A
Y.4.5	Oil resistance		N/A
Y.4.6	Securing means		N/A
Y.5	Protection of equipment within an outdoor encl	osure	N/A





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	IEC 62368-1							
Clause	Requirement + Test	Result - Remark	Verdict					
Y.5.1	General	* \$2 - JIII BS-0	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	15 LCS Test	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
TILL HE TO	3	- III HE 177	-mi RQ 177	. ~

TABLE: Classification of electrical energy sources							
Supply Voltage	Location (e.g.	Test conditions		F	Parameters		ES Class
Vollage	designation)		U (V) I (mA) Type <sup>1)</sup> Additional Info <sup>2)</sup>				Olass
9Vdc	All circuits	Normal	9Vdc		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		N/A			
Location RMS voltage (V) Peak voltage (Hz) Frequency				Comm	ents	
Supplement	ary information:					

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics								
Method								
Object/ Part No./Material	Manufacturer/trademark	Thickness (mm)	T softening (°C)					
Supplementary 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)		ression ter (mm)	
Supplementary information:								

5.4.2, 5.4.3 TA	2, 5.4.3 TABLE: Minimum Clearances/Creepage distance									
Clearance (cl) a creepage dista (cr) at/of/betwe	nce	U <sub>p</sub> (V)	U <sub>rms</sub> (V)	Freq 1) (Hz)	Required cl (mm)	cl (mm)	E.S. <sup>2)</sup> (V)	Required cr (mm)	cr (mm)	
THE ting Lab		ti	开检测 Be	ab		五形检测	g Lab-		世刊位]	



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

Supplementary information:

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

5.4.4.2	TABLE: Minimum distance through insulation							
Distance through insulation (DTI) at/of		Peak voltage (V)	Insulation	Required DTI (mm)	Mea	sured DTI (mm)		
Supplement	ary information:		:111 报交份	•		服股份		
江江	iff In Lab	拉洲	sting Lab	一工工	7 PY	ing Lab		

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz						N/A	
Insulation m	aterial	E <sub>P</sub>	Frequency (kHz)	<b>K</b> <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)
Supplement	ary information:						

5.4.9	TABLE: Electric strength tests			N/A
Test voltage	e applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
				<u>.</u>
Supplement	ary information:			

5.5.2.2	TABLE:	Stored discharge o	n capacitors				N/A	
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	E	S Class	
	人间接	B	公司 [] 任			A IT	11 BE 43	
Supplementary information: X-capacitors installed for testing:								
☐ bleeding	bleeding resistor rating:							
☐ ICX:	□ ICX:							
1) Normal o	1) Normal operating condition (e.g., normal operation, or open fuse), SC= short circuit, OC= open circuit							

5.6.6	TABLE: Resistance of protective conductors and terminations					
Location	Location Test current Duration Voltage drop Resi					
ENTRY IN INC.	江河	Testing Lab	立识征	ing Lab	-	工讲程



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V	. ago	12 01 70 Troportito.	. 200/.001.1011.10
	IEC (	62368-1	
Clause	Requirement + Test	Result - Remark	Verdict
Suppleme	ntary information:	Tink A Turk Ting Lan	NS Tille

5.7.4	5.7.4 TABLE: Unearthed accessible parts					N/A	
Location		Operating and	Supply	F	Parameters		ES
		fault conditions	Voltage (V)			Freq. (Hz)	class
Supplemen	Supplementary information:						- 05

Abbreviation: SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed access	ABLE: Earthed accessible conductive part			
Supply volta	age (V):				_
Phase(s)	······································	[] Single Phase; [] Three F	hase: [] Delta [	] Wye	
Power Distri	bution System:	□TN □TT [	IT		
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comm	ent
Ling La	女讯检	Hill De	TiH 位加 Lab		世讯检
Supplementary Information:					

5.8	TABLE: Backfeed safeguard in battery backed up supplies					N/A	
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
Supplement	tary inforr	nation:					
Abbreviation: SC= short circuit, OC= open circuit							
四檢測股份 四檢測股份							

6.2.2	TA	BLE: Power source circuit classifications					
Location		Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class
Internal circuit		Normal condition			<100W	5s	PS2
Wireless Output 10W		Normal condition	9V	1.42	11.7	5s	PS1
Wireless Output 10W		C3 SC	0	0	0	5S	PS1
Supplementary information:							女讯检







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

Abbreviation: SC= short circuit; OC= open circuit

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

6.2.3.1 TABLE: Determination of Arcing PIS						N/A
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.

6.2.3.2	5.2.3.2 TABLE: Determination of resistive PIS				
Location		Operating and fault condition	Dissipate power (W)		cing PIS? es / No
Inte	rnal circuit				Yes

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

					-n 167
8.5.5	TABLE: High	h pressure lamp	NST ICS TOS	ting L	N/A
Lamp ma	anufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
Supplem	entary information	n:			

9.6	TABLE	: Tempera	ture meas	urements	for wireles	ss power t	ransmitter	s	Р
Supply volta	ge (V)			:	公测股份				_
Max. transm	Max. transmit power of transmitter (W):								
			eiver and contact		eiver and contact		ver and at of 2 mm		ver and at of 5 mm
Foreign ob	ojects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
steel di	sc	25.8	25.5	26.1	25.3	25.6	25.2	27.2	25.0
aluminium	n ring	26.7	25.2	27.0	25.3	26.1	25.1	26.8	25.2
aluminiur	n foil	27.3	25.1	26.4	25.0	25.8	25.0	27.0	25.3
Supplementa	ary inforr	nation:	A mil R	计		1111	股份	•	





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V			·	
		IEC 62368-1		
Clause	Requirement + Test	100	Result - Remark	Verdict

Maximum measured temperature 1 of part/at:	Clause	requirement i re	,ot			resuit	Roman		VCIGIO
6.3.2, 9.3, B.2.6         Supply voltage (V)	立讯检测股	Lab	立语检测股份	3 ab		立语检测	ing Lab		立讯检测
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6.3.2,	TABLE: Temperat	ure measurem	ents	1/2	LCS		1	PS
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Supply voltage	(V)	:	9Vd.c.		-	-	_
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Ambient T <sub>min</sub> (°C	C)	:	-				_
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Ambient T <sub>max</sub> (°C	C)	:	-				_
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Tma (°C)		:	-				_
PCB near U2&U3 53.4 130 Wireless winding 62.3 Reference Enclosure inside, near wireless winding 49.3 Reference Enclosure outside, near wireless winding 38.6 77 Ambient 25.0 Supplementary information:	Maximum	measured temperatu	re T of part/at:		·	T (°C	()		Allowed T <sub>max</sub> (°C)
Wireless winding 62.3 Reference Enclosure inside, near wireless winding 49.3 Reference outside, near wireless winding 38.6 77 Ambient 25.0 Supplementary information:	PCB near	U1 <sub>S</sub> Te <sup>sting</sup>	V	51	.1************************************		1	ST TCS TE	130
Enclosure inside, near wireless winding 49.3 Reference outside, near wireless winding 38.6 77 Ambient 25.0 Supplementary information:	PCB near	U2&U3	7	53	.4				130
Enclosure outside, near wireless winding 38.6 77 Ambient 25.0 Supplementary information:	Wireless w	rinding		62	.3				Ref
Ambient 25.0 Supplementary information:	Enclosure	inside, near wireless	winding	49	.3				Ref
Supplementary information:	Enclosure	outside, near wireles	s winding	38	.6				77
Temperature T of winding: $ \begin{array}{c cccc} t_1 \ (^\circ C) & R_1 \ (\Omega) & t_2 \ (^\circ C) & R_2 \ (\Omega) & T \ (^\circ C) & Allowed \\ T_{max} \ (^\circ C) & class \end{array} $	Ambient			25	.0				
Temperature I of winding: T <sub>max</sub> (°C) class	Suppleme	ntary information:						<u> </u>	
Till Testing Land Land Land Land Land Land Land Land	Temperatu	re T of winding:	t <sub>1</sub> (°C)	$R_1(\Omega)$	t <sub>2</sub> (°C)	$R_2(\Omega)$	T (°C)		Insulation class
	Till Testing	Lab	Tighte Testing L	 3D		THE Test	ing <sub>Fap</sub>		Till Tes
	Fee	1	A 1000		-4/2	LCS.		1	A res

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	TAB	LE: Input to	est						Р
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Conditi	on/status
5.0Vdc	立语 Partiest	1.26	2.0	6.3	S Testing Lab		WS4 T	Wireles 5W and working	
9.0Vdc		1.74	2.0	15.66					s output d motor
Suppleme	entary info	ormation:							



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

B.3, B.4	TAB	LE: Abnor	nal operatin	g and fau	It condition	n tests		P
Ambient tem	pera	ture T <sub>amb</sub> (°C	C)			.: See belo	w	_
Power source for EUT: Manufacturer, model/type, outputrating:								_
Component N	No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation	n
U1 Pin 5-11		SC	9Vdc	10mins			Unit shut down imm recoverable. After to damage, no hazard.	est, no
Q1 Pin 1-3	n检T s Tes	SC	9Vdc	10mins	机检测设置 STesting Lab		Unit shut down imm recoverable. After to damage, no hazard.	est, no
C3		SC	9Vdc	10mins			Unit shut down imm recoverable. After te damage, no hazard.	est, no
D2		SC	9Vdc	10mins			Unit shut down imm recoverable. After te damage, no hazard.	est, no

### 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: Pro	otection circu	its fo	r batterie	es provid	ed v	vithin	the equ	ipment		N/A
Is it possible t	to install the	battery in a rev	pattery in a reverse polarity position?:								_
			Charging								
Equipment S	pecification		Vol	tage (V)					Current (A)		
Batte						spec	cificati	on			
		Non-rechargeable batteries				Rechargeable batteries					
		Discharging		tentional	C	Char	ging		Discharging	_	verse
Manufactu	urer/type	current (A)		rent (A)	Voltage	(V)	Curr	ent (A)	current (A)		arging ent (A)
Note: The tes	ts of M.3.2 a	re applicable or	nly w	hen above	e appropri	ate c	data is	not ava	ilable.		
Specified battery temperature (°C)						:					
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent (A)	Voltage (V)	Obse	rvatio	on
- 经测股份			服役份	3				服性			10



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

### Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit NL= no chemical leakage; NS= no spillage of liquid; NE= no explosion; NF= no emission of flame or expulsion of molten metal.

	I.4.2 TABLE: Charging safeguards for equipment containing a secondary lithium battery								
Maximum specified charging voltage (V):									
Maximum specified charging current (A):									
Highest specified charging temperature (°C):									
Lowest spec	ified cha	rging temperat	ture (°C)		. :	工活检验			
Battery		Operating		Measurement		Observation	n		
manufacture	r/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)				

### Supplementary information:

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

Q.1	TABLE: Circuits inte	TABLE: Circuits intended for interconnection with building wiring (LPS)							
Output	Condition	11 ()()	Time (a)	I <sub>sc</sub>	(A)	S (VA)			
Circuit	Condition	U <sub>oc</sub> (V)	Time (s)	Meas.	Limit	Meas.	Limit		
Wireless Output 10W	Normal condition	9V	5s	1.42	8	11.7	100		
Wireless Output 10W	C3 SC	0	5s	0	8	0	100		

Supplementary Information:

Abbreviation: SC= short circuit

T.2, T.3, T.4, T.5	TABLI	E: Steady force test	LCS	10-		189	rcs ,	N/A
Part/Location	n	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Obse	rvation
Supplement	ary info	rmation:						





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

Cladee	. roquironnoni			riodan rio	, , , , , , , , , , , , , , , , , , ,	10.0.0
LiH检测股节	ap n	立语检测股份		立语检测图	Lab Lab	立语检
T.6, T.9	TABLE: Imp	act test	100	Icales		N/A
Location/pa	art	Material	Thickness (mm)	Height (mm)	Obs	ervation
Supplemen	ntary information	n:				

T.7	TABLE: Drop test					Р
Location/part		Material	Thickness (mm)	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 ha	azardous.
	re outside ttom)	See appended table 4.1.2	See appended table 4.1.2	1000	No damage, no ha	azardous.
Supplement	ary information	) <del>'</del>				

Required by client.

T.8 TABLE: Stress relief test				N/A		
Location/Pa	rt	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Supplement	Supplementary information:					

X	TABLE: Alternat	ABLE: Alternative method for determining minimum clearances distances					
Clearance of between:	listanced	Peak of working voltage (V)	Required cl (mm)	Measure (mm)			
1/5/1 LO	STesting	4 ST LCS Te		VST LCS Tes	C. C.		
Supplementary information:							



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

4.1.2	TABLE	E: List of critical com	ponents			PST
Object No.	t / part	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>
Plastic enclos		CHI MEI CORPORATION	PC-6620	V-0,115°C, thickness 1.5mm	UL 94 UL 746	UL E56070
PCB		SHENZHEN JIRUIDA CIRCUIT TECHNOLOGY .,LTD.	JRD-SR	V-0, 130°C	UL 796	UL E340032

















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### Attachment No.1

I CS Testing	IEC62368_1E - ATTACH	C62368_1E - 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 MODIFICATIONS (EN)				
	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018.				
	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".				
an th	Add the following annexes:	راد			
工语检测版》 Lics Testing Lab	Annex ZA (normative) Normative references to international publications with their corresponding European publications	((3			
	Annex ZB (normative) Special national conditions				
	Annex ZC (informative) A-deviations				
	Annex ZD (informative) IEC and CENELEC code designations for flexible cords				
1	Modification to Clause 3.				
3.3.19	Sound exposure	Р			
	Replace 3.3.19 of IEC 62368-1 with the following definitions:				



A - IIII B交为	Attachment No.1	10 - TILL BE 177	111175
3.3.19.1	momentary exposure level, MEL	LCS 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.	Tes.	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
一寸	A-weighted sound pressure (p) squared and integrated over a stated period of time, T	TST TH 位测	股份 ng Lab
- Sa L	Note 1 to entry: The SI unit is $Pa^2$ s.	LCS Test	
	$E = \int_{0}^{\infty} p(t)^{2} dt$		
3.3.19.4	sound exposure level, SEL		Р
	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	Note 1 to entry: SEL is measured as A-weighted levels in dB.	立讯检测股份 LCS Testing Lab	立语检测
rcs.	$SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$	LCS.	I res.
	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
بد	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 a Lab
NET 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 Tosti	79.
2	Modification to Clause 10		
10.6	Safeguards against acoustic energy sources		Р
	Replace 10.6 of IEC 62368-1 with the following:		
10.6.1.1	Introduction		Р
立讯检测股份 11.1111111111111111111111111111111111	Safeguard requirements for protection against long-term exposure to excessive sound pressure	在讯检测股份	立讯检测



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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

10 - TILL BY 177	Attachment No.1	10 FM BZ 177	A /IIII - A.
Till Testing La	within a few years it will no longer exist. This exemption will not be extended to other technologies.	LCS Testing Lan	LCS Testin
	<ul> <li>a player while connected to an external amplifier that does not allow the user to walk around while in use.</li> </ul>		
	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.		股份
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	LCS Testi	ua Fap
	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 hand-		
STATE WAS THE	held and body mounted devices, attention is drawn to EN 50360 and EN 50566.		
10.6.2	Classification of devices without the capacity to	estimate sound dose	+ P位洲
10.6.2.1	General  This standard is transitioning from short-term	LCS Test.	LOPTest
	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.		
TE TO	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 this case, <i>T</i> becomes the duration of the song.	LCS TOST	股价 ng Lab
	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		
在讯检测股份	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	在讯检测度份 tingLab	<b>立</b> 语检测



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## Attachment No.1

12 - All 1852 P.	Attachment No.1	es Till BE	9/1111-04
立剂 <sup>Maring Le</sup>	programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound	LCS Testing Lan	Till LCS Testi
	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 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 ≤ 85 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 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.	TST LCS Testi	股份 ag Lab
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	-mi BG (f)	P. and
LCS Testing Lo	RS2 is a class 2 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> 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	LCS Testing La.	LCS Tosti
TEA TO	connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	LCS Testi	设份 1.g Lab
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
立讯检测股份	Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given	文讯检测度份 cting Lab	立讯检测



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## **Attachment No.1**

A 71111 DC 1	Attachment No.1	- 10 My 1111 DZ 30	17 Kg 7 1111
10.6.3.2	below.  RS1 limits (new)	Tyrving Lo	Р
VISO T	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
7	use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital	1	
	interface) when playing the fixed "programme simulation noise" described in EN 50332-1.		
10.6.3.3	RS2 limits (new)		Р
立讯检测股份 LCS Testing Le	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	立语检测股份 LCS Testing Lab	立讯检测 LCS Tosti
	be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed		
	"programme simulation noise" described in EN		
10.6.4	50332-1.  Requirements for maximum sound exposure		ωψP
10.6.4.1	Measurement methods	一大子子·阿尔斯	P
18 I	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.		
<b>立语检测股份</b>	NOTE 1 Volume control is not considered a safeguard.	女讯检测股份	在讯检测
Testille	- Toguire	100111	A TOSTI



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及訊服分	Attachment No.1	及河原发竹	 - LA - TILL BE	
ICS Testing La	Between RS2 and an <b>ordinary person</b> , the <b>basic safeguard</b> may be replaced by an <b>instructional safeguard</b> in accordance with Clause F.5, except that the <b>instructional safeguard</b> shall be placed on the equipment, or on the packaging, or in the instruction manual.  Alternatively, the <b>instructional safeguard</b> may be given through the equipment display during use.	Tiller Lan LCS Testing Lan	TIME LCS Testilis	
	The elements of the <b>instructional safeguard</b> shall be as follows:  - element 1a: the symbol IEC 60417-6044 (2011-01)		n lit	
TEL TO	<ul> <li>element 2: "High sound pressure" or equivalent wording</li> <li>element 3: "Hearing damage risk" or equivalent wording</li> <li>element 4: "Do not listen at high volume levels for long periods." or equivalent wording</li> </ul>		<sup>18</sup> Fap	
	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.			مد
立讯检测股份 LCS Testing La	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.	立讯检测股份 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			
TE II	listening time, independent of how often and how long the personal music player has been switched off.  A <b>skilled person</b> shall not be unintentionally		eg Lab	
10.6.5	exposed to RS3.  Requirements for dose-based systems		P	
10.6.5.1	General requirements		P	
	Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.			
在讯检测股份	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to	生用检测股份	拉讯检测器	



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**Attachment No.1** 

12 JIII BS 17	Attachment No.1	- TILL BX 17	/ IIII
LCS Testing Le	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
TE II	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 Test	股份 ng 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	<b>有特別股份</b>	Presti
LCS I	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 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.	LCS TOST	LCS
10.6.6	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位测
TINVI ting La	inequirements for insterning devices (neadphones	o, earphones, etc.)	11111



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Attachment No.

	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		



 ${\bf Shenzhen\ LCS\ Compliance\ Testing\ Laboratory\ Ltd.}$ 



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### **Attachment No.1**

	<b>Delete</b> all the list:	"country" note	es in the refe	erence docume	ent according	to the followin	g P
	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	
	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	
	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 Table 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	
	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	加强份
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	ting Lab
	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	
	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	
	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
	Y.4.5	Note					
	Modification	to Clause 1	MATA IA		AVF 53R Inc.		
CSTes	Add the follow	ving note:		1/2	CS 765		N/A
	NOTE Z1 The and electronic see Directive	equipment is					

5
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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	THIS TESTING LAB	N/A
一则配价	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 <b>pluggable equipment type</b> A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.		
6	Modification to 5.4.2.3.2.4	and All All All All All All All All All Al	
5.4.2.3.2.4	Add the following to the end of this subclause:	15	N/A
	The requirement for interconnection with <b>external circuit</b> is in addition given in EN 50491-3:2009.		
7	Modification to 10.2.1		
10.2.1	Add the following to c) and d) in table 39:		N/A
	For additional requirements, see 10.5.1.		



\*



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Attachment No.1

	Attachment No.1		
10.5.1	Add the following after the first paragraph:	Title Lab	N/A
	For RS 1 compliance is checked by measurement under the following conditions:	-12	100
	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.		
正工证	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	工活检测	股份 ng Lab
100	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm <sup>2</sup> , at any point 10 cm from the outer surface of the apparatus.	The res	
	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.	Ti开检测股份	女·用检测
LCSTesti	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	LCS Testin	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.		





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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 <sup>和</sup>		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 <b>mains</b> socket-outlet.					
	The marking text in the application	able countries shall				
	be as follows:					
	In <b>Denmark</b> : "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 <b>Sweden</b> : "Apparaten skall a uttag"	anslutas till jordat				



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士·开检测 DEL	Attachment No.1	上:A校测版 Lab	一语检测的
4.7.3	United Kingdom	CS Testins	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:		
بد	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.	七讯检测	及份 aLab
5.4.11.1	Finland and Sweden	MST LCS Test.	N/A
and 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		
立语检测股份 LCS Testing Li	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	Li开检测股份 Los Testing Lab	立讯检测 LCS Testin
	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		
TE I	• 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),	TET TESTESIN	度价 19 Lab
	<ul> <li>is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> </ul>		
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		
14 测限分	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	4.测股份	



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## **Attachment No.1**

下出述, Tap	Attachment No.1	- HW Lab	不知何以
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 Testill's	
	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.		是份
5.5.2.1	Norway	以 Tinting	N/A
Wai res	After the 3rd paragraph the following is added:	Les Tes	
	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:		
份銀冊	Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable equipment type A</b> shall comply with G.10.1 and the test of G.10.2.	-m RE (f)	
5.6.1	Denmark Till Passing Lab	Liff Testing Lab	N/A
CS (e.	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:	Les 1°	
	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	g Lab
5.6.4.2.1	France		N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:  – in certain cases, the <b>protective current rating</b> 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。Lab	Attachment No.1	上 识 The Lab	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 <sup>2</sup> to 1,5 mm <sup>2</sup> 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 <b>class I equipment</b> . 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 True	To the end of the subclause the following is added:	LCS TOSTI	19 Las
	The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> 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
立讯检测股份 LCS Testing Lab	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
in the	"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 洲 2	and the little of	



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**Attachment No.1** 

- 13/1/2 Tap	Attachment No. 1	Filter Lar	- 111/12
LCS Testins	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	CSTestins	LCS Testi
	Translation to Norwegian (the Swedish text will also be accepted in Norway):		
TEG TOS	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	TET TESTING LOS TESTIN	变价 g Lab
	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."		
8.5.4.2.3	United Kingdom		N/A
立语检测股份 LCS Testing Lab	Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:  An emergency stop system complying with the	上讯检测股份 LCS Testing Lab	立讯检测 LCS Testin
	requirements of IEC 60204-1 and ISO 13850 is		
B.3.1 and	required where there is a risk of personal injury.  Ireland and United Kingdom		NI/A
B.4	The following is applicable:		N/A
TE I LCS	To protect against excessive currents and short-circuits in the primary circuit of <b>direct plug-in equipment</b> , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the <b>direct plug-in equipment</b> , until the requirements of Annexes	上CS Testin	设价 O Lab
0.4.2	B.3.1 and B.4 are met  Denmark		NI/A
G.4.2	To the end of the subclause the following is added:		N/A
	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.		
政治测限分	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect	<b>一种测度份</b>	



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Report No.: LCSA110822018S



**Attachment No.1** 

- IT TU Lab	Attachment No.1	- iFl Fill Lab	一河河
LCS Testing	contact is required according to the wiring rules shall be provided with a plug in accordance with	LCS Testing	
	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.		
Tive Tive	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.		
134 108	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	)	
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a		
	Justification:		
	Heavy Current Regulations, Section 6c		
G.4.2	United Kingdom	人訓授份	N/A
立河 Testing Lab	To the end of the subclause the following is added:	Liff Testing Lab	
	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.		100
G.7.1	United Kingdom		N/A
	To the first paragraph the following is added:		
TE ITH	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.	3	
	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 NSA LOS TOS MANAGEMENT	CS 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	e	
	which is equivalent to the relevant Irish Standard		
G.7.2	Ireland and United Kingdom		N/A
	To the first paragraph the following is added:	lin-	马份
计证	in dead	<b>计</b> 讯检测	aLab
MST LCS	A power supply cord with a conductor of 1,25 mm		19
	is allowed for equipment which is rated over 10 A	1	
70	and up to and including 13 A.		
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		
10.5.2	Germany		N/A
	The following requirement applies:		
	For the operation of any cathode ray tube intende	d	
	for the display of visual images operating at an		
	acceleration voltage exceeding 40 kV, authorization	on	
	is required, or application of type		
是到限分	approval (Bauartzulassung) and marking.	<b>一种测股价</b>	1
立河 Testing Lab	Justification:	Till Tasting Lab	1/6
LCS TO	German ministerial decree against ionizing	I Ccs , co	[ rcs , ][-
	radiation (Röntgenverordnung), in force since		1
	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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/ teachinoite (10)			
IEC 62368_1E ATTACHMENT			
Clause Requirement + Test	-m BG 1/3	Result - Remark	Verdict

ZD	IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS (EN)			LCSTE
	Type of flexible cord	Type of flexible cord Code designations		N/A
		IEC	CENELEC	
	PVC insulated cords			
	Flat twin tinsel cord	60227 IEC 41	H03VH-Y	
	Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	
	Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	股份 ng 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	•		
	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	二田位
	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H	LCSTE
	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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Overall View Details of:



Details of: **External View** 





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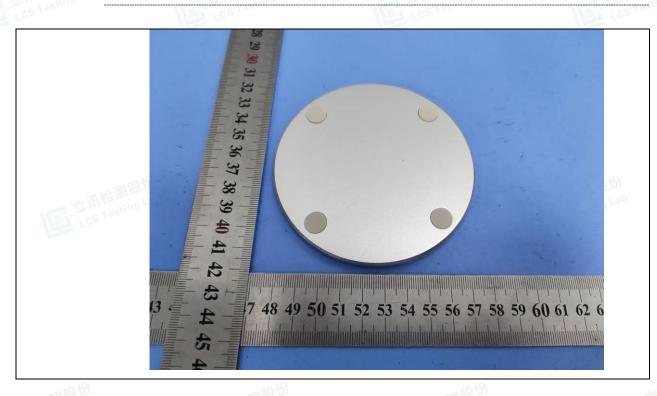
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com Scan code to check authenticity



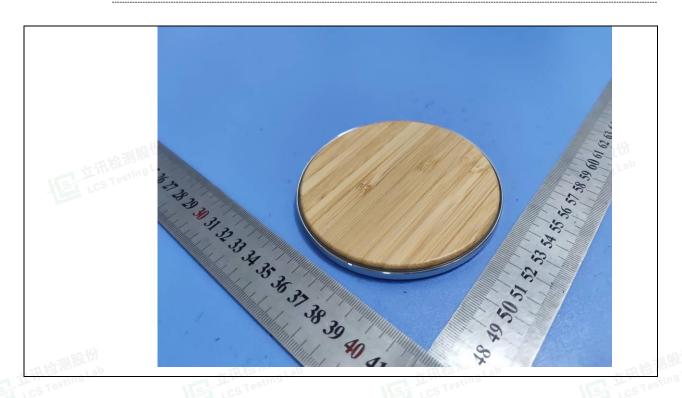
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**External View** Details of:



Details of: **External View** 





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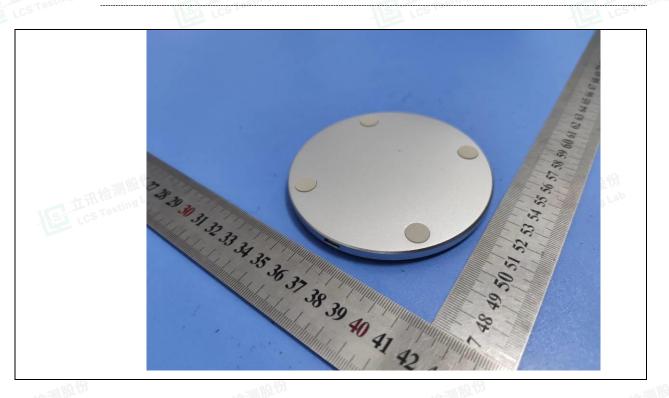


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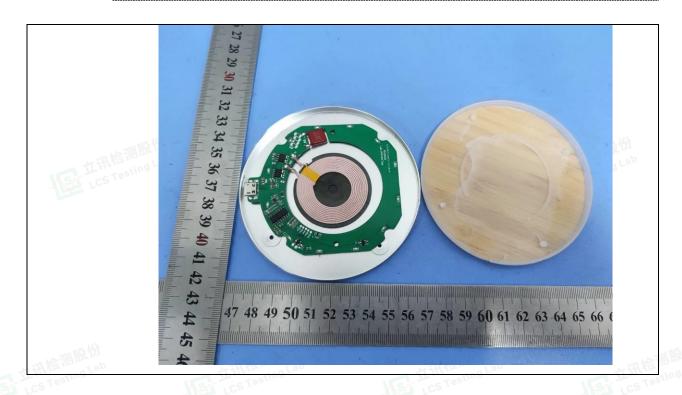
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**Attachment No.2** 

Details of: External View



Details of: Internal View





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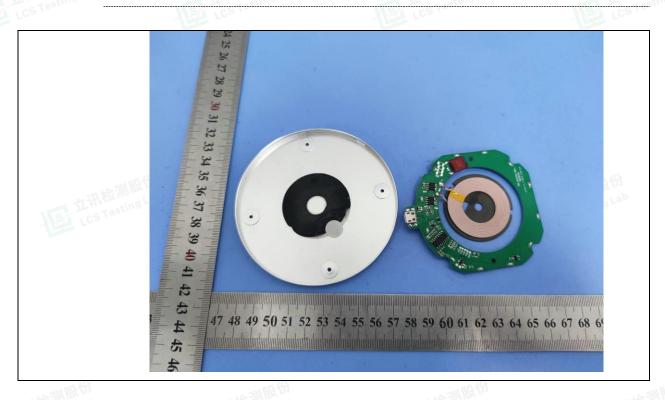


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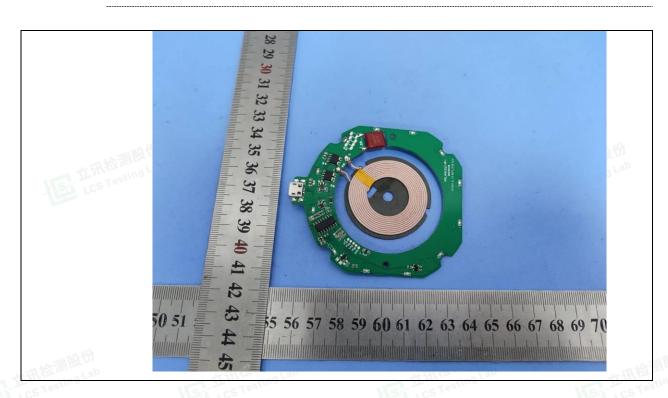
Report No.: LCSA08143111S **Attachment No.2** 

Details of:

Internal View



**PCB View** Details of:





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## **Attachment No.2**

**PCB** View Details of:



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

