



# TEST REPORT EN 62368-1

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

Report Number.....: LCSA100822073S001

Date of issue .....: 2022-11-01

Total number of pages .....: 73

Name of Testing Laboratory Shenzhen LCS Compliance Testing Laboratory Ltd. preparing the Report .....:

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

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-F1:2020, Ed.1.3

Test Report Form No.....: IEC62368\_1E

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

Master TRF .....: Dated 2021-02-04

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Test item description .....: Storage Box Wireless Charger

Trade Mark(s) ...... N/A

 Manufacturer......
 114628

 Model/Type reference ......
 MO9391

**Ratings** .....: Input: 5V=== 2A

Wireless Output: 5V===1A 5W Max.

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

☐ Testing Laboratory:		Shenzhen LCS Compliance Testing Laboratory Ltd.		
Testing location/ address:		Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China		
Pre	pared by:	David Ma Project Handler	David Ma	
Che	ecked by:	Terry Zhu Reviewer	Jenny Who	
Арр	proved by	Hart Qiu Technical Director	Hut Vi	







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

- Attachment No. 1: National Differences

-Attachment No. 2: Photo Documentation

-Attachment No. 3: History of Amendments

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

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**Summary of compliance with National Differences:** 

List of countries addressed: National Differences and Group Differences as refer to Attachment No. 1.

☐ 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.



### Note:

- 1. The height of CE symbol ≥ 5.0mm; the height of WEEE symbol ≥ 7.0mm. The height of UKCA symbol ≥ 5.0mm
- 2. The above labels are only samples.





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Test item particulars:	Tea real
Product group:	
Classification of use by:	<ul><li>☑ Ordinary person</li><li>☑ Instructed person</li><li>☑ Skilled person</li></ul>
Supply connection:	☐ AC mains ☐ DC mains ☐ not mains connected: ☐ ES1 ☐ ES2 ☐ ES3
Supply tolerance:	☐ +10%/-10% ☐ +20%/-15%
Supply connection – type:	<ul><li></li></ul>
	□ appliance coupler □ direct plug-in □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ other: Not directly connected to the mains
Considered current rating of protective device:	A;
Equipment mobility:	Location:
Overvoltage category (OVC):	☐ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV ☐ other: Supplied by Max. DC 5V
Class of equipment::	☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐
Special installation location::	<ul><li>N/A</li><li>☐ restricted access area</li><li>☐ outdoor location</li></ul>
Pollution degree (PD):	☐ PD 1 ☐ PD 2 ☐ PD 3
$\label{eq:manufacturer} \textbf{Manufacturer's specified T}_{ma}:$	25 °C Outdoor: minimum °C
IP protection class:	□ IP □ IP □
Power systems:	☐ TN ☐ TT ☐ IT - V <sub>L-L</sub> ☐ not AC mains
Altitude during operation (m):	□ 2000 m or less       □ m
Altitude of test laboratory (m):	⊠ 500 m or less
Mass of equipment (kg):	<u>0.375</u> kg







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Possible test case verdicts:	1
- 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:	2022-10-08
Date (s) of performance of tests:	From 2022-10-08 to 2022-10-18
General remarks:	· 清於 · · · · · · · · · · · · · · · · · ·
	·
Manufacturer's Declaration per sub-clause 4.2.5	5 of IECEE 02:
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes ☐ Not applicable
Name and address of factory (ies)	Same as the Manufacturer
When differences exist; they shall be identified	in the General product information section.
General product information and other remark	s:
1. The product was submitted and tested for use temperature (Tma) of 25°C.	e at the manufacturer's recommended ambient







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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

区 立洲位别DELab

KSI 工訊檢測股份

LCS Testing Lab

工资 工资检测股份 LCS Testing Lab

NSG 立讯检测股份 LCS Testing Lab 立语控测股份 LCS Testing Lab











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	tti	EC 62368-1	
Clause	Requirement + Test	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	Р
4.1.2	Use of components	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 股份 ng Lab
4.1.3	Equipment design and construction	Evaluation of safeguards regarding limiting the outputs to fulfill ES1 and protection in regard to risk of spread of fire, mechanical and thermal burn injury considered.	Р
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered		N/A
4.1.8	Liquids and liquid filled components (LFC)	上讯检测度//	N/A
4.1.15	Markings and instructions	(See Annex F)	PoTe
4.4.3	Safeguard robustness		N/A
4.4.3.1	General		N/A
4.4.3.2	Steady force tests		N/A
4.4.3.3	Drop tests		N/A
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	in a	N/A
江江	Glass impact test (1J)	Tiller	N/A
- In	Push/pull test (10 N)	103	N/A
4.4.3.8	Thermoplastic material tests		N/A
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness		N/A
4.4.4	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks		N/A
4.5	Explosion		N/A



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions.	N/A
4.5.2	No explosion during normal/abnormal operating condition		N/A
	No harm by explosion during single fault conditions		N/A
4.6	Fixing of conductors		N/A
	Fix conductors not to defeat a safeguard		N/A
	Compliance is checked by test:	T	N/A
4.7	Equipment for direct insertion into mains socket	-outlets	N/A
4.7.2	Mains plug part complies with relevant standard:	100	N/A
4.7.3	Torque (Nm):		N/A
4.8	Equipment containing coin/button cell batteries		N/A
4.8.1	General	Equipment for locations where it is unlikely that children will be present.	N/A
4.8.2	Instructional safeguard:		N/A
4.8.3	Battery compartment door/cover construction		N/A
- RE 4	Open torque test	THE Y	N/A
4.8.4.2	Stress relief test	Tiff Wing Lab	N/A
4.8.4.3	Battery replacement test	LCS TO	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		N/A
4.10.1	Disconnect Device	US CS Test	N/A
4.10.2	Switches and relays		N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sources		Р
5.2.2	ES1, ES2 and ES3 limits	ES1	Р
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits:		N/A



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山拉测短小	IEC 62368-1	T 检测版 ab	工工枪
Clause	Requirement + Test	Result - Remark	Verdict
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		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 equipment.	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 this product	N/A
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2	Contact requirements		N/A
	Test with test probe from Annex V		-
5.3.2.2 a)	Air gap – electric strength test potential (V):	会测股份	N/A
5.3.2.2 b)	Air gap – distance (mm):	Till Esting Lan	N/A
5.3.2.3	Compliance	100	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.	N/A
5.4.1.3	Material is non-hygroscopic	No hygroscopic material used.	N/A
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	N/A
5.4.1.5	Pollution degrees:	2	Р
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2 is applied. No insulating compound applied (however see 5.5.4).	N/A
5.4.1.5.3	Thermal cycling test	See above	N/A
5.4.1.6	Insulation in transformers with varying dimensions	No such transformer within the EUT	N/A
5.4.1.7	Insulation in circuits generating starting pulses	No such starting pulses within the EUT	N/A
5.4.1.8	Determination of working voltage:		N/A
5.4.1.9	Insulating surfaces		N/A



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工检测版	IEC 62368-1	可检测版ab	二田位
Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		N/A
5.4.1.10.2	Vicat test:		N/A
5.4.1.10.3	Ball pressure test		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	- 油粒测	N/A
AST I	Clearances in circuits connected to AC Mains, Alternative method	LCS TOSE	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:	an like	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test:	立洲位河 Lab	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		N/A
5.4.3.1	General		N/A
5.4.3.3	Material group	IIIa&IIIb	
5.4.3.4	Creepage distances measurement		N/A
5.4.4	Solid insulation		N/A
5.4.4.1	General requirements	<b>二田拉测</b>	N/A
5.4.4.2	Minimum distance through insulation	151 LCS Test	N/A
5.4.4.3	Insulating compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material		N/A
	Number of layers (pcs):		N/A



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识检测版	IEC 62368-1	TA 拉测 hab	in in
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_P$ , $K_R$ , $d$ , $V_{PW}$ (V)	T. 42.	N/A
WELL I	Alternative by electric strength test, tested voltage (V), $K_R$	TET LCS Test	N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
5.4.5.3	Insulation resistance (MΩ):		N/A
	Electric strength test		N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	No such insulation of internal wire as part of supplementary safeguard.	N/A
5.4.7	Tests for semiconductor components and for cemented joints	立语检测图2bb	N/A
5.4.8	Humidity conditioning	18	N/A
	Relative humidity (%), temperature (°C), duration (h):		_
5.4.9	Electric strength test		N/A
5.4.9.1	Test procedure for type test of solid insulation:		N/A
5.4.9.2	Test procedure for routine test		N/A
5.4.10	Safeguards against transient voltages from external circuits		N/A
5.4.10.1	Parts and circuits separated from external circuits	Tr	N/A
5.4.10.2	Test methods	立语[]	N/A
5.4.10.2.1	General	- Isa res	N/A
5.4.10.2.2	Impulse test:		N/A
5.4.10.2.3	Steady-state test:		N/A
5.4.10.3	Verification for insulation breakdown for impulse test:		N/A
5.4.11	Separation between external circuits and earth	No such connections for external circuit applied within the EUT	N/A





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可检测股门	IEC 62368-1	大型 大型 III RETU	血粒
Clause	Requirement + Test	Result - Remark	Verdict
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
	Rated operating voltage U <sub>op</sub> (V):		_
	Nominal voltage U <sub>peak</sub> (V):		_
	Max increase due to variation $\Delta U_{sp}$ :		_
ے	Max increase due to ageing $\Delta U_{sa}$ :	二 讯检测	_
5.4.11.3	Test method and compliance:	151 LCS Tes	N/A
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid:		N/A
5.4.12.3	Compatibility of an insulating liquid:		N/A
5.4.12.4	Container for insulating liquid:		N/A
5.5	Components as safeguards		N/A
5.5.1	General		N/A
5.5.2	Capacitors and RC units	(本) 11股份	N/A
5.5.2.1	General requirement	立 Testing Lab	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	15	N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers		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	立讯位置	N/A
1/2/	RCD rated residual operating current (mA):	- Ce I	_
5.6	Protective conductor	Class III equipment	N/A
5.6.2	Requirement for protective conductors		N/A
5.6	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



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Clause	Requirement + Test	Result - Remark	Verdict
	Protective earthing conductor size (mm²):		_
	Protective earthing conductor serving as a reinforced safeguard		N/A
	Protective earthing conductor serving as a double safeguard		N/A
5.6.4	Requirements for protective bonding conductors		N/A
5.6.4.1	Protective bonding conductors		N/A
	Protective bonding conductor size (mm²):		_
5.6.4.2	Protective current rating (A):	- 田位刊	N/A
5.6.5	Terminals for protective conductors	1 LCS Test	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm):		N/A
	Terminal size for connecting protective bonding conductors (mm):		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:	可於測股份	N/A
5.6.7	Reliable connection of a protective earthing conductor	LCS Testing	N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm²):		N/A
	Class II with functional earthing marking:		N/A
	Appliance inlet cl & cr (mm):		N/A
5.7	Prospective touch voltage, touch current and 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	上田位 <sup>刑</sup>	N/A
5.7.3	Equipment set-up, supply connections and earth connections	LCS Tess	N/A
5.7.4	Unearthed accessible parts:		N/A
5.7.5	Earthed accessible conductive parts:		N/A
5.7.6	Requirements when touch current exceeds ES2 limits		N/A
	Protective conductor current (mA):		N/A
	Instructional Safeguard:		N/A



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IEC 62368-1			一一一
Clause	Requirement + Test	Result - Remark	Verdict
5.7.7	Prospective touch voltage and touch current associated with external circuits		N/A
5.7.7.1	Touch current from coaxial cables		N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables		N/A
5.7.8	Summation of touch currents from external circuits		N/A
	a) Equipment connected to earthed external circuits, current (mA):		N/A
_ 1	b) Equipment connected to unearthed external circuits, current (mA):	- 女讯检测	N/A
5.8	Backfeed safeguard in battery backed up suppli	es \\Si_LCSTES	N/A
	Mains terminal ES		N/A
	Air gap (mm)		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		N/A
6.2.3.1	Arcing PIS	<b>公共测股份</b>	N/A
6.2.3.2	Resistive PIS	I STesting Law	N/A
6.3	Safeguards against fire under normal operating a conditions	nd abnormal operating	Р
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table 5.4.1.4, 6.3.2, 9.0, B.2.6)	Р
	Combustible materials outside fire enclosure:		N/A
6.4	Safeguards against fire under single fault condition	ons	Р
6.4.1	Safeguard method	Method of "control of fire spread" is used.	股份P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	LCS TOST	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions:		N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits		N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
6.4.5.2	Supplementary safeguards	-	N/A	
6.4.6	Control of fire spread in PS3 circuits	No PS3 circuits.	N/A	
6.4.7	Separation of combustible materials from a PIS		N/A	
6.4.7.2	Separation by distance		N/A	
6.4.7.3	Separation by a fire barrier	No specific barrier provided.	N/A	
6.4.8	Fire enclosures and fire barriers	See below	N/A	
6.4.8.2	Fire enclosure and fire barrier material properties		N/A	
6.4.8.2.1	Requirements for a fire barrier	No fire barrier used.	N/A	
6.4.8.2.2	Requirements for a fire enclosure	LE TIME	N/A	
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	1	N/A	
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A	
6.4.8.3.2	Fire barrier dimensions		N/A	
6.4.8.3.3	Top openings and properties		N/A	
	Openings dimensions (mm):	No fire enclosure required.	N/A	
6.4.8.3.4	Bottom openings and properties		N/A	
	Openings dimensions (mm):	No fire enclosure required.	N/A	
可检测股份	Flammability tests for the bottom of a fire enclosure	加松测股份	N/A	
CS Testing L	Instructional Safeguard:	This Testing L	N/A	
6.4.8.3.5	Side openings and properties	T	N/A	
	Openings dimensions (mm):	No fire enclosure required.	N/A	
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c):		N/A	
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:		N/A	
6.4.9	Flammability of insulating liquid		N/A	
6.5	Internal and external wiring		N/A	
6.5.1	General requirements		N/A	
6.5.2	Requirements for interconnection to building wiring	15 LCS Tes	N/A	
6.5.3	Internal wiring size (mm²) for socket-outlets:		N/A	
6.6	Safeguards against fire due to the connection to	additional equipment	N/A	

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	N/A
7.2	Reduction of exposure to hazardous substances	N/A
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	N/A



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IEC 62368-1				
Clause	Requirement + Test Result - Remark	Verdict		
	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		P N/A P
8.3	Safeguards against mechanical energy sources		
8.4	Safeguards against parts with sharp edges and co	orners	
8.4.1	Safeguards	122	N/A
	Instructional Safeguard:		N/A
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	Р
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts		N/A
an H	MS2 or MS3 part required to be accessible for the function of the equipment	an Hi	N/A
E iF Ming Li	Moving MS3 parts only accessible to skilled person	大流流河 Bab	N/A
8.5.2	Instructional safeguard	LCS Test	N/A
8.5.4	Special categories of equipment containing moving parts		N/A
8.5.4.1	General		N/A
8.5.4.2	Equipment containing work cells with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work cell		N/A
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system		N/A
8.5.4.2.2.2	Visual indicator	The s	N/A
8.5.4.2.3	Emergency stop system	II il lies	N/A
100	Maximum stopping distance from the point of activation (m):	100	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



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- 洒检测股外	IEC 62368-1	上:用於河股 <sup>竹</sup>	山柏
Clause	Requirement + Test	Result - Remark	Verdict
	- Cable assembly:		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media		N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:		N/A
8.5.4.3.3	Disconnection from the supply		N/A
8.5.4.3.4	Cut type and test force (N)		N/A
8.5.4.3.5	Compliance	. "111	N/A
8.5.5	High pressure lamps	Tiffien	N/A
100	Explosion test:	- Los	N/A
8.5.5.3	Glass particles dimensions (mm):		N/A
8.6	Stability of equipment	•	N/A
8.6.1	General		N/A
	Instructional safeguard:		N/A
8.6.2	Static stability		N/A
8.6.2.2	Static stability test:		N/A
8.6.2.3	Downward force test	an Hit	N/A
8.6.3	Relocation stability	Tirk Ming Lab	N/A
LCS Testing	Wheels diameter (mm):	LCS Testing	_
	Tilt test		N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test:		N/A
8.7	Equipment mounted to wall, ceiling or other struc	eture	N/A
8.7.1	Mount means type:	Not such equipment.	N/A
8.7.2	Test methods		N/A
	Test 1, additional downwards force (N)		N/A
151 7	Test 2, number of attachment points and test force (N)	五五五五五五五五五五五五五五五五五五五五五五五五五五五五五五五五五五五五五	N/A
100	Test 3 Nominal diameter (mm) and applied torque (Nm):	100	N/A
8.8	Handles strength		N/A
8.8.1	General	No handles provided.	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



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	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
8.9.2	Pull test	No wheels or casters.	N/A	
8.10	Carts, stands and similar carriers	1	N/A	
8.10.1	General	No carts, stands or similar carriers.	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	女话位派	N/A	
1/8/1	Force applied (N)	154 LCS TO		
8.10.6	Thermoplastic temperature stability		N/A	
8.11	Mounting means for slide-rail mounted equipment (SRME)		N/A	
8.11.1	General	Not such equipment.	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	一、五位 <sup>测度77</sup>	N/A	
8.11.3.3	Integrity of slide rail end stops	LCS Testing	N/A	
8.11.4	Compliance		N/A	
8.12	Telescoping or rod antennas		N/A	
	Button/ball diameter (mm)	No such parts.	_	

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits		Р
9.3.1	Touch temperatures of accessible parts	(See appended table 5.4.1.4,	Р
		9.3, B.1.5, B.2.6)	
9.3.2	Test method and compliance		Р
9.4	Safeguards against thermal energy sources		Р
9.5	Requirements for safeguards		Р
9.5.1	Equipment safeguard		Р
9.5.2	Instructional safeguard		N/A
9.6	Requirements for wireless power transmitters		Р
9.6.1	General		Р



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
9.6.2	Specification of the foreign objects		Р
9.6.3	Test method and compliance		Р

10	RADIATION		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification	RS1	Р
	Lasers:		_
	Lamps and lamp systems:	Tr. As.	_
Mg I	Image projectors:	IST CS Test	
162	X-Ray:	132	
	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 LED types)	and lamp systems (including	Р
10.4.1	General requirements	Exempt Group:Indicator	Р
EI用检测股份	Instructional safeguard provided for accessible radiation level needs to exceed	在讯检测股份	N/A
LCSTes	Risk group marking and location	LCS 165	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	No such x-radiation generated from the equipment	N/A
	Instructional safeguard for skilled persons:	. "11	_
10.5.3	Maximum radiation (pA/kg):	Ti形型的	_
10.6	Safeguards against acoustic energy sources	100	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



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
10.6.3.1	General requirements		N/A
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements		N/A
	30 s integrated exposure level (MEL30)		N/A
	Warning for MEL ≥ 100 dB(A)		N/A
10.6.4	Measurement methods		N/A
10.6.5	Protection of persons		N/A
	Instructional safeguards:	T.A.	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	LCS Test	N/A
10.6.6.1	Corded listening devices with analogue input		N/A
	Listening device input voltage (mV):		N/A
10.6.6.2	Corded listening devices with digital input		N/A
	Max. acoustic output L <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	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS  General		P工讯位
B.1			P
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	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:		N/A
B.2.3	Supply voltage and tolerances	Rated voltage	Р
B.2.5	Input test:	(See appended table B.2.5)	P
B.3	Simulated abnormal operating conditions	<b>一</b> 古语检测	P
B.3.1	General	AST LCS Tes	Р
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 was used.	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	Р
B.3.6	Reverse battery polarity		N/A



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四检测股份	IEC 62368-1	· 河检测股份	加拉
Clause	Requirement + Test	Result - Remark	Verdict
B.3.7	Audio amplifier abnormal operating conditions		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions:		Р
B.4	Simulated single fault conditions		Р
B.4.1	General		Р
B.4.2	Temperature controlling device		N/A
B.4.3	Blocked motor test	(See appended table B.4)	Р
B.4.4	Functional insulation	See below.	BG (FP
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	ng P
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards used.	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4 for faults on electronic components)	Р
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7 LOS TOSTING LE	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.	Р
B.4.9	Battery charging and discharging under single fault conditions	No battery used.	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV rac	diation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method	古讯检测	N/A
C.2	UV light conditioning test	LCS Tes	N/A
C.2.1	Test apparatus ::		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A



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可检测股节	IEC 62368-1	可於測度分	n th
Clause	Requirement + Test	Result - Remark	Verdict
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 ( $\Omega$ ):		
	Open-circuit output voltage (V):		
	Instructional safeguard:		
E.2	Audio amplifier normal operating conditions	- 14T	N/A
WST I	Audio signal source type:	VS CS Test	
	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 SAFEGUARDS	INSTRUCTIONAL	Р
F.1	General	an Hill	Р
LiH位测度。	Language:	English version provided and checked.	_
F.2	Letter symbols and graphical symbols	12	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	N/A
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	The required marking is located on the product is easily visible.	股份P ng Lab
F.3.2	Equipment identification markings	See copy of marking plate.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate.	
F.3.2.2	Model identification:	See page 2 for details.	
F.3.3	Equipment rating markings	See the following details.	Р
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains		Р



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四检测股节	IEC 62368-1	上五校测度力。	一面检
Clause	Requirement + Test	Result - Remark	Verdict
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	Only one mains supply connection provided.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	See below.	Р
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	Class III equipment	N/A
F.3.6	Equipment markings related to equipment classification		N/A
F.3.6.1	Class I equipment	2. 11 控测度价	N/A
F.3.6.1.1	Protective earthing conductor terminal:	I CS Testing L	N/A
F.3.6.1.2	Protective bonding conductor terminals:	1	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
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	股份P ng Lab



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
F.4	Instructions		Р
	a).Information prior to installation and initial use		Р
	b). Equipment for use in locations where children not likely to be present		N/A
	c). Instructions for installation and interconnection		Р
	d). Equipment intended for use only in restricted access area		N/A
	e). Equipment intended to be fastened in place		N/A
	f). Instructions for audio equipment terminals	二五位列	N/A
MSI .	g). Protective earthing used as a safeguard	LCS Test	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
	k) Replaceable components or modules providing safeguard function		N/A
	I). Equipment containing insulating liquid		N/A
	m) Installation instructions for outdoor equipment		N/A
F.5	Instructional safeguards	<b>公公司股份</b>	N/A
G	COMPONENTS		PTP
G.1	Switches	1	N/A
G.1.1	General	No switch used.	N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.1.3	Test method and compliance		N/A
G.2	Relays		N/A
G.2.1	Requirements	No relay used.	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supplying power to other equipment	nki	N/A
G.2.4	Test method and compliance	VS I CS Test	N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs	No thermal cut-offs provided within the equipment.	N/A
	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Test method and compliance		N/A



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和检测版	IEC 62368-1	TT THE WIND LAD	共讯检
Clause	Requirement + Test	Result - Remark	Verdict
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	No thermal link provided within the equipment.	N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors	No PTC thermistor used.	N/A
G.3.4	Overcurrent protection devices		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	<b>计算程</b>	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	LCS Test	N/A
G.3.5.2	Single faults conditions:		N/A
G.4	Connectors		N/A
G.4.1	Spacings		N/A
G.4.2	Mains connector configuration:		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A
G.5	Wound components		N/A
G.5.1	Wire insulation in wound components	<b>一位测股份</b>	N/A
G.5.1.2	Protection against mechanical stress	I IN Testing Land	N/A
G.5.2	Endurance test	Not applied for.	N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Test time (days per cycle):		_
	Test temperature (°C):		_
G.5.2.3	Wound components supplied from the mains		N/A
G.5.2.4	No insulation breakdown		N/A
G.5.3	Transformers		N/A
G.5.3.1	Compliance method:	立形位制	N/A
AST I	Position ::	ST LCS 18	N/A
	Method of protection:		N/A
G.5.3.2	Insulation		N/A
	Protection from displacement of windings:		
G.5.3.3	Transformer overload tests		N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding temperatures		N/A
G.5.3.3.3	Winding temperatures - alternative test method		N/A



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可检测应	IEC 62368-1	和 拉测 BX tab	一点检
Clause	Requirement + Test	Result - Remark	Verdict
G.5.3.4	Transformers using FIW	No such FIW	N/A
G.5.3.4.1	General		N/A
	FIW wire nominal diameter		_
G.5.3.4.2	Transformers with basic insulation only		N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation		N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core		N/A
G.5.3.4.5	Thermal cycling test and compliance	<b>二、田位河</b>	N/A
G.5.3.4.6	Partial discharge test	1 ST LCS Test	N/A
G.5.3.4.7	Routine test		N/A
G.5.4	Motors		Р
G.5.4.1	General requirements		Р
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	<b>一种报价</b>	N/A
G.5.4.5.2	Tested in the unit	立河 Testing Lab	N/A
G.5.4.5.3	Alternative method	100	N/A
G.5.4.6	Locked-rotor overload test for DC motors		Р
G.5.4.6.2	Tested in the unit		Р
	Maximum Temperature	(See appended table B.4)	Р
G.5.4.6.3	Alternative method		N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
24	Operating voltage	— · · · · · · · · · · · · · · · · · · ·	_
G.6	Wire Insulation	13 LCS Test	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
	Туре		_
G.7.2	Cross sectional area (mm² or AWG):		N/A



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<b>扣检测</b> 形	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N):		N/A
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material		N/A
G.7.4	Cord Entry	工语检测	N/A
G.7.5	Non-detachable cord bend protection	SI LCS TO	N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Test method and compliance		N/A
	Overall diameter or minor overall dimension, <i>D</i> (mm):		_
	Radius of curvature after test (mm):		_
G.7.6	Supply wiring space		N/A
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire	一加强价	N/A
G.7.6.2.1	Requirements	立语 No Sting Lab	N/A
G.7.6.2.2	Test with 8 mm strand	rcs ,	N/A
G.8	Varistors		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	1	N/A
G.9.1	Requirements	No IC current limiter provided within the equipment.	N/A
-178	IC limiter output current (max. 5A):	100	_
	Manufacturers' defined drift:		_
G.9.2	Test Program		N/A
G.9.3	Compliance		N/A
G.10	Resistors	I	N/A
G.10.1	General	No such resistor as safeguard used	N/A
G.10.2	Conditioning		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
G.10.3	Resistor test	No such resistors	N/A
G.10.4	Voltage surge test	NO SUCITIESISIOIS	N/A
G.10.4 G.10.5	Impulse test		N/A
G.10.5 G.10.6	Overload test		N/A
G.10.0 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.11.2 G.11.3			N/A
G.11.3	Rules for selecting capacitors  Optocouplers	<b>工作性测</b>	N/A
G.12	MSI LCS	150 Les Test	
	Optocouplers comply with IEC 60747-5-5 with specifics		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	The insulation between conductors on the outer surfaces of an uncoated printed board complied with the minimum clearance and creepage requirements	P  Tindi
G.13.3	Coated printed boards	No coated printed board or multilayer board applied for within the equipment.	N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation:		N/A
	Number of insulation layers (pcs):		_
G.13.6	Tests on coated printed boards	litro .	N/A
G.13.6.1	Sample preparation and preliminary inspection	其消滅	N/A
G.13.6.2	Test method and compliance	100180	N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements:	No coating on component terminals considered to affect creepage or clearances.	N/A
G.15	Pressurized liquid filled components	1	N/A
G.15.1	Requirements	No such device provided within the equipment.	N/A
G.15.2	Test methods and compliance		N/A



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Hing ting	IEC 62368-1	THE STATE OF THE S	1. 江州检
Clause	Requirement + Test	Result - Remark	Verdict
G.15.2.1	Hydrostatic pressure test		N/A
G.15.2.2	Creep resistance test		N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test		N/A
G.15.2.5	Thermal cycling test		N/A
G.15.2.6	Force test		N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	447	N/A
G.16.1	Condition for fault tested is not required	Times Test	N/A
-	ICX with associated circuitry tested in equipment		N/A
	ICX tested separately		N/A
G.16.2	Tests		N/A
	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:		_
	Mains voltage that impulses to be superimposed on		_
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:		_
G.16.3	Capacitor discharge test:	上语检测度物	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	71 11 11 11 11 11	N/A
H.1	General		N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):		_
H.3.1.2	Voltage (V):		_
H.3.1.3	Cadence; time (s) and voltage (V):	· 167	_
H.3.1.4	Single fault current (mA)::	VIST LCS Test	
H.3.2	Tripping device and monitoring voltage	122	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V):		N/A
J	INSULATED WINDING WIRES FOR USE WITHOU INSULATION	T INTERLEAVED	N/A
J.1	General		N/A
	-1		



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可检测股份	IEC 62368-1	<b>五枪测股份</b>	n th
Clause	Requirement + Test	Result - Remark	Verdict
	Winding wire insulation:		_
	Solid round winding wire, diameter (mm):		N/A
	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):		N/A
J.2/J.3	Tests and Manufacturing		_
K	SAFETY INTERLOCKS	,	N/A
K.1	General requirements		N/A
	Instructional safeguard:	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard mechanic	anism	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
K.5.1	Under single fault condition		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Test method and compliance:		N/A
K.7	Interlock circuit isolation	人测股份	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements		N/A
	In circuit connected to mains, separation distance for contact gaps (mm):		N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):		N/A
	Electric strength test before and after the test of K.7.2:		N/A
K.7.2	Overload test, Current (A):		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single-phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
L.8	Multiple power sources		N/A
	Instructional safeguard:		N/A
М	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Batteries and their cells comply with relevant IEC standards:	No battery used.	N/A
M.3	Protection circuits for batteries provided within the equipment	· 讯检测	N/A
M.3.1	Requirements		N/A
M.3.2	Test method		N/A
	Overcharging of a rechargeable battery		N/A
	Excessive discharging		N/A
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A
M.3.3	Compliance		N/A
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		N/A
M.4.1	General		N/A
M.4.2	Charging safeguards	10	N/A
M.4.2.1	Requirements		N/A
M.4.2.2	Compliance ::		N/A
M.4.3	Fire enclosure:		N/A
M.4.4	Drop test of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation and procedure for the drop test		N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::		N/A
M.4.4.4	Check of the charge/discharge function		N/A
M.4.4.5	Charge / discharge cycle test		N/A
M.4.4.6	Compliance		N/A
M.5	Risk of burn due to short-circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Test method and compliance		N/A
М.6	Safeguards against short-circuits		N/A
M.6.1	External and internal faults		N/A



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IEC 62368-1				
Clause	Requirement + Test Result - Remark	Verdict		
M.6.2	Compliance	N/A		
M.7	Risk of explosion from lead acid and NiCd batteries			
M.7.1	Ventilation preventing explosive gas concentration No such part	N/A		
	Calculated hydrogen generation rate:	N/A		
M.7.2	Test method and compliance	N/A		
	Minimum air flow rate, Q (m³/h):	N/A		
M.7.3	Ventilation tests	N/A		
M.7.3.1	General	N/A		
M.7.3.2	Ventilation test – alternative 1	N/A		
	Hydrogen gas concentration (%):	N/A		
M.7.3.3	Ventilation test – alternative 2	N/A		
	Obtained hydrogen generation rate:	N/A		
M.7.3.4	Ventilation test – alternative 3	N/A		
	Hydrogen gas concentration (%):	N/A		
M.7.4	Marking:	N/A		
М.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte	N/A		
M.8.1	General	N/A		
M.8.2	Test method	N/A		
M.8.2.1	General	N/A		
M.8.2.2	Estimation of hypothetical volume $V_Z$ (m³/s):			
M.8.2.3	Correction factors:			
M.8.2.4	Calculation of distance d (mm):			
M.9	Preventing electrolyte spillage			
M.9.1	Protection from electrolyte spillage	N/A		
M.9.2	Tray for preventing electrolyte spillage	N/A		
M.10	Instructions to prevent reasonably foreseeable misuse	N/A		
	Instructional safeguard:	N/A		
N	ELECTROCHEMICAL POTENTIALS	N/A		
	Material(s) used:			
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES			
	Value of <i>X</i> (mm):	_		
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS	N/A		
P.1	General No PS3 circuits	N/A		
P.2	Safeguards against entry or consequences of entry of a foreign object	N/A		



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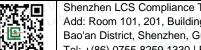
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可控测版	IEC 62368-1	拉河 版 plab	一识检
Clause	Requirement + Test	Result - Remark	Verdict
P.2.1	General	No opening	N/A
P.2.2	Safeguards against entry of a foreign object		N/A
	Location and Dimensions (mm):		_
P.2.3	Safeguards against the consequences of entry of a foreign object		N/A
P.2.3.1	Safeguard requirements		N/A
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment		N/A
	Transportable equipment with metalized plastic parts		N/A
P.2.3.2	Consequence of entry test		N/A
P.3	Safeguards against spillage of internal liquids	•	N/A
P.3.1	General		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Compliance		N/A
P.4	Metallized coatings and adhesives securing part	ts	N/A
P.4.1	General		N/A
P.4.2	Tests		N/A
	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:	(see table Annex Q.1)	Р
	Current rating of overcurrent protective device (A)		N/A
Q.2	Test for external circuits – paired conductor cable		N/A
	Maximum output current (A):		N/A
	Current limiting method:		





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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
R	LIMITED SHORT CIRCUIT TEST		N/A	
R.1	General	No such consideration.	N/A	
R.2	Test setup		N/A	
	Overcurrent protective device for test:		_	
R.3	Test method		N/A	
	Cord/cable used for test:		_	
R.4	Compliance		N/A	
s	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A	
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A	
	Samples, material:	Certified fire enclosure used.	_	
	Wall thickness (mm):		_	
	Conditioning (°C)		_	
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A	
	- Material not consumed completely		N/A	
	- Material extinguishes within 30s		N/A	
	- No burning of layer or wrapping tissue		N/A	
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A	
	Samples, material:		—	
	Wall thickness (mm):		_	
	Conditioning (°C)		_	
S.3	Flammability test for the bottom of a fire enclosure		N/A	
S.3.1	Mounting of samples		N/A	
S.3.2	Test method and compliance		N/A	
	Mounting of samples:		_	
	Wall thickness (mm):		—	
S.4	Flammability classification of materials	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		N/A	
T.1	General		N/A	
T.2	Steady force test, 10 N:		N/A	



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Clause	Requirement + Test	Result - Remark	Verdict
T.3	Steady force test, 30 N:		N/A
T.4	Steady force test, 100 N:		N/A
T.5	Steady force test, 250 N:		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	IBES (CRT) AND PROTECTION	N/A
U.1	General		N/A 🦼
	Instructional safeguard:		N/A
U.2	Test method and compliance for non-intrinsically	protected CRTs	N/A
U.3	Protective screen		N/A
V	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment		N/A
V.1.1	General		N/A
V.1.2	Surfaces and openings tested with jointed test probes		N/A
V.1.3	Openings tested with straight unjointed test probes		N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe		N/A
V.1.5	Slot openings tested with wedge probe		N/A
V.1.6	Terminals tested with rigid test wire		N/A
V.2	Accessible part criterion		N/A
Х	ALTERNATIVE METHOD FOR DETERMINING CLE IN CIRCUITS CONNECTED TO AN AC MAINS NO (300 V RMS)		N/A
	Clearance		N/A
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDOO	R ENCLOSURES	N/A
Y.1	General		N/A
Y.2	Resistance to UV radiation		N/A



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二五检测股	IEC 62368-1	上五於測段 <sup>77</sup>	n6
Clause	Requirement + Test	Result - Remark	Verdict
Y.3	Resistance to corrosion		N/A
Y.3	Resistance to corrosion		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:		N/A
Y.3.2	Test apparatus		N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A
Y.3.4	Test procedure:		N/A
Y.3.5	Compliance		N/A
Y.4	Gaskets	<b>立</b> 语检测	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 enclose	sure	N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		N/A
	Relevant tests of IEC 60529 or Y.5.3:		N/A
Y.5.3	Water spray test		N/A
Y.5.4	Protection from plants and vermin		N/A
Y.5.5	Protection from excessive dust		N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment		N/A
Y.6	Mechanical strength of enclosures		N/A
Y.6.1	General		N/A
Y.6.2	Impact test:		N/A



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可检测的	Lab 古田检测版LablE	C 62368-1	上讯检
Clause	Requirement + Test	Result - Remark	Verdict

5.2	TABLE: Classificati	ssification 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>	Class
5Vdc	Internal circuits	Normal	5Vdc Max				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 (V)	Frequency (Hz)	Commo	ents
Supplementary information:					

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics						N/A
Method: ISO 306 / B50						_
Object/ Part No./Material Manufacturer/trademark Thickness (mm) T softening					ng (°C)	
			V		12	
Supplementa	ary information:					

5.4.1.10.3	.1.10.3 TABLE: Ball pressure test of thermoplastics							
Allowed imp	Allowed impression diameter (mm) ≤ 2 mm							
Object/Part No./Material Manufacturer/trademark			Thickness			ression eter (mm)		
 : v	A检测版》		立河 Re la			和检测	Re Lab	
Supplementary information:								

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance							N/A	
Clearance (cl) and creepage distance (cr) at/of/between:	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)



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	48	1 age 40 01 73	report No.: 200	A100022073000
一识检测的	zin Lab	IEC 62368-1	古讯检测度 <sup>177</sup>	一话位
Clause	Requirement + Test	N.	Result - Remark	Verdict
Suppleme	entary information:			
1) Only fo	or frequency above 30 kHz			
2) Compl	ete Electric Strength voltage (E.	S. (V) when 5.4.2.4 ap	plied)	

5.4.4.2	TABLE: Minimun	TABLE: Minimum distance through insulation								
Distance thr (DTI) at/of	ough insulation	Peak voltage (V)	Insulation	Required DTI (mm)	Mea	sured DTI (mm)				
	~ 测股份		·····································			服股份				
Supplement	ary information:	拉语位	sting Lab	江江	月河 P	ing Lab				

5.4.4.9	TABLE: Solid insulation at frequencies >30 kHz						N/A
Insulation m	aterial	$E_{P}$	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	applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	eakdown es / No
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)	ES Class			
Supplement	ary inforn	nation:	公测股份			4.测度份			
X-capacitors	s installed	I for testing:				resting Lab			
☐ bleeding resistor rating:									
□ 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 Test current Duration Voltage drop Resis								



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三语检测的	Lab	EC 62368-1	上讯检
Clause	Requirement + Test	Result - Remark	Verdict
Suppleme	entary information:		

5.7.4	TABLE: Unearthed accessible parts						N/A
Location		Operating and	Supply	F	ES		
		fault conditions	Voltage (V)	Voltage (V <sub>rms</sub> or V <sub>pk</sub> )	Current (A <sub>rms</sub> or A <sub>pk</sub> )	Freq. (Hz)	class
	. 45			an th			n 44

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed accessible conductive part						
Supply volta	age (V):				_		
Phase(s)	·····:	[] Single Phase; [] Three F	] Wye				
Power Distr	ibution System:	□TN □TT □IT					
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comme	ent		
TTI 位illing La	b 女讯检	ting Lab	TiH检测 Lab	-	世讯检		
Supplement	Supplementary Information:						

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

6.2.2 TABLE: 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		<15W		3s	PS1	
Wireless output	reless output Normal condition		1.16	5.53	3s	PS1	

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

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



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三语检测的	IEC 62368-1					
Clause	Requirement + Test	Result - Remark	Verdict			

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

6.2.3.2 TABLE: Determination of resistive PIS							
Location		Operating and fault condition	Dissipate power (W)		ing PIS? es / No		

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

- 3) A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter. If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.
- 1) A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, or (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

All components located within the EUT are considered as resistive PIS.

8.5.5	TABLE: High pre	ABLE: High pressure lamp							
Lamp manufacturer		Lamp type	Explosion method	glass particle bey		Particle found beyond 1 m Yes / No			
Supplementary information:									

9.6	TABLE:	Temperature measurements for wireless power transmitters							s	Р
Supply voltage (V):				5Vdc	Testino		1	LCST	_	
Max. transmit power of transmitter (W): 5W						_				
			eiver and contact		th receiver and with receiver and at distance of 2 mm			eceiver and at nce of 5 mm		
Foreign ob	ojects	Object (°C)	Ambient (°C)	_	ject C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Steel di	isc	26.7	25.2	28	8.4	24.6	28.2	24.8	27.8	24.9
Aluminum	ring	28.2	24.9	2	7.5	24.2	27.6	24.8	27.7	25.1



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X	Verdict
26.2	24.9
25.1	25.1 26.2

5.4.1.4, 9.3 B.2.6	, B.1.5,	TABLE:	Temperat	ure meas	surem	ents					Р
	Supply volta	ige (V)		.:	5.0\	/d.c.					_
	Ambient T <sub>min</sub>	<sub>n</sub> (°C)		.:	-						_
	Ambient T <sub>max</sub> (°C):			.:	应测图	(d)				111位刑	_
MSI I	Tma (°C)			IST LCS	resting				vi	LCS Test	_
Maximum r	neasured tem	nperature	T of part/a	at:			Т (	(°C)			Allowe d T <sub>max</sub> (°C)
PCB near U1				5	9.1						130
PCB near U2				6	3.0						130
PCB near l	PCB near U3			6	8.6						130
Core				5	1.0						130
Winding				5	3.6						130
NTC	h		可绘测度	5	0.3	公测股份		<u> </u>		Ref.	
Wooden er	nclosure inside	e VS I	S Testing	4	0.4	ASA	TINNE CST	eting		We	Ref.
Wooden er	nclosure outsi	de		3	8.7					72	77
Ambient				2	5.0						
Supplemen	tary informati	on: (load:	Wireless	Output:5	N Max	()		•	•		
Temperatu	re T of windin	g:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (	°C)	R <sub>2</sub> ( <u>G</u>	Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulat ion class
					-						
					_	_					

#### 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)





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一语检测路	Lab	C 62368-1	上语位 <sup>列</sup>
Clause	Requirement + Test	Result - Remark	Verdict

B.2.5	B.2.5 TABLE: Input test								
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/s	tatus	
5Vdc	1.55	2	6.0				Working nomal(I Max)	oad :5W	

Supplementary information:

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

B.3, B.4 TA	ABLE: Abnor	mal operatin	g and fau	ılt conditior	n tests	. 46	n BB (P
Ambient tempe	erature T <sub>amb</sub> (°	C)		Him har I at	. : See be	elow	
Power source f	for EUT: Manı	ufacturer, mod	del/type, c	outputrating.	. :	Top I Co	
Component No	. Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A	Observation A)	า
U1 Pin 1-5	SC	5Vdc	10mins			Input current: 0.001/ Unit shut down imme recoverable. After te damage, no hazard.	ediately,
C1	SC	5Vdc	10mins			Input current: 0.001/ Unit shut down immorecoverable. After te damage, no hazard.	ediately,
U2 Pin 1-3	SC	5Vdc	10mins		LCS Tes	Input current: 0.001/ Unit shut down imme recoverable. After te damage, no hazard.	ediately, est, no
U3 Pin 2-8	SC	5Vdc	10mins			Input current: 0.001/ Unit shut down imme recoverable. After te damage, no hazard.	ediately,
Wireless outpu	t Overload	5Vdc	3hrs	孔检测股份 STesting Lat		Wireless output max current 1.16A, wireles power is 5.53W,whe it, Unit shut down immediately, recove After test, no damag hazard. Wooden enclosure outside/40.2°C; Ambient/25.0°C.	ess output in reach rable.

#### 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.



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		Page 45 of 73 Report No.: LCSA10					lo.: LCSA100	822073S00°		
识检测技术	(b)	上识检测	则是了	IEC 623	368-1	: بد	田检训	Il His Iv		二讯检节
Clause	Requirement	+ Test	llun		1/5	Re	sult -	Remark		Verdict
M.3	TABLE: Pr	otection circu	iits f	or batterio	es provide	ed v	vithin	the equ	uipment	N/A
Is it possible	e to install the	battery in a re	verse	e polarity p	osition?	:	No			_
					Ch	nargi	ing			
Equipment	Specification		Voltage (V)				Current (A)			
		<del></del>								
		Battery specification								
		Non-rechargeable batteries					Rech	nargeabl	le batteries	
		Discharging	Unintentional		Charging			Discharging	Reverse	
Manufac	cturer/type	current (A)	charging current (A)		Voltage (	Voltage (V) Curr		ent (A)	current (A)	charging current (A)
Note: The te	ests of M.3.2 a	re applicable o	nly w	hen above	e appropria	ate c	data is	not ava	ailable.	
Specified ba	attery tempera	ture (°C)				:				
Component No.	Fault condition	Charge/ Test discharge mode time			Temp. (°C)		rrent (A)	Voltage (V)	e Obse	rvation
公訓股份			间段	分	1		 	股份		
Lith Parting La	- <b>-</b>	Und Till The	ting l		TITE	立	HIM.	ing Lab		Tille
_0	1		Lea To							

Supplementary information:

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

M.4.2	TABLE: battery	Charging safeguards for equipment containing a secondary lithium						
Maximum specified charging voltage (V):								
Maximum specified charging current (A):								
Highest specified charging temperature (°C): :								
Lowest specified charging temperature (°C):								
Battery		Operating		Measurement		Observatio		
manufacture	er/type	and fault condition	Charging voltage (V)					

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit; MSCV= maximum specified charging voltage; MSCC=



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一识检测的	this Lab E	C 62368-1	上讯检节
Clause	Requirement + Test	Result - Remark	Verdict

maximum specified charging current; HSCT= highest specified charging temperature; LSCT= lowest specified charging temperature

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)							
Output	Condition	U <sub>oc</sub> (V)	Time (s)	I <sub>sc</sub>	(A)	S (VA)		
Circuit	Condition	O <sub>oc</sub> (V)	111116 (5)	Meas.	Limit	Meas.	Limit	
Wireless output	Normal condition	5.00	3	1.15	8	5.52	100	

Supplementary Information:

Abbreviation: SC= short circuit

T.2, T.3, T.4, T.5	TABLE	TABLE: Steady force test							
Part/Locatio	n	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Obsei	rvation	
							-		
Supplement	Supplementary information:								

T.6, T.9 TABLE: Imp	act test		· 古洲检测版	Lab	N/A
Location/part	Material	Thickness (mm)	Height (mm)	Observatio	n
Supplementary information	n:				

T.7 TABLE: Dro	p test			N/A				
Location/part	Material	Thickness (mm)	Height (mm)	Observation				
人:加股份		人訓疫份						
Supplementary information:								
Ten Ice	189	Cos.		167 [66				

T.8	TABLE	TABLE: Stress relief test					N/A
Location/Par	rt	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	/ation
						-	i
Supplementary information:							

Х	TABLE: Alternative method for determining minimum clearances distances			N/A	
Clearance distanced		Peak of working voltage	Required cl	Measure	ed cl



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	Lab II 流河 II 大 Lab II	EC 62368-1	
Clause	Requirement + Test	Result - Remark	Verdict

between:	(V)	(mm)	(mm)		
Supplementary information:					

4.1.2	TABLE	E: List of critical con	nponents			A THE P
Object No.	/ part	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>
Woode				thickness 2.5mm	IEC/EN 62368-1	Test with appliance
PCB		HUIZHOU ZHENGHUA ELECTRONICS CO LTD	ZH-2	V-0, 130°C	UL 796	UL E318724

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

















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Clause

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#### Attachment No.1

IEC62368\_1E - ATTACHMENT

Result - Remark Verdict

Report No.: LCSA100822073S001

#### 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)

Requirement + Test

Master Attachment ...... 2021-02-04

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	CENELEC COMMON MODIFIC	CATIONS (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".		
- 11>	Add the following annexes:	- ID	
立语检测股切	57 1/1	ormative references to international publications onding European publications	
100	Annex ZB (normative) Sp	pecial national conditions	
	Annex ZC (informative) A-	-deviations	
	Annex ZD (informative) IE cords	C and CENELEC code designations for flexible	
1	Modification to Clause 3.		
3.3.19	Sound exposure		N/A
	Replace 3.3.19 of IEC 62368-1	with the following definitions:	





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### **Attachment No.1**

A-1111 BZ 77	Attachment No.1		<u> 18 IIII: a.</u>
3.3.19.1	momentary exposure level, MEL	Till Testing Lab	N/A
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.	Tree.	LCS.
	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>		N/A
一工工	A-weighted sound pressure (p) squared and integrated over a stated period of time, T	UST ICS TOST	股份 ng Lab
1 ST L	Note 1 to entry: The SI unit is $Pa^2$ s.	IST LOST OF	
	$E = \int_{0}^{1} p(t)^{2} dt$		
3.3.19.4	sound exposure level, SEL		N/A
	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	
res .	$SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$	102.	100,1
	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		N/A
	levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused		股份
Tea in	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	LCS Tost	19
2	Modification to Clause 10		
10.6	Safeguards against acoustic energy sources		N/A
	Replace 10.6 of IEC 62368-1 with the following:		
10.6.1.1	Introduction		N/A
<b>计讯检测股份</b>	Safeguard requirements for protection against long-term exposure to excessive sound pressure	大哥拉测度份 大哥拉·加度的	古话检测器



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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

4年到1月27	Attachment No.1	A TIM BO 177	Allie as
Till LCS Testing La	within a few years it will no longer exist. This exemption will not be extended to other technologies.	立計程 LCS Testing Lan	立河 LCS Testi
	<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	N/A
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and		
U-A	Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn to EN 50360 and EN 50566.	en Uit	
10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
10.6.2.1	General (ST CS Testing)	LCS Testing	N/A
	This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3.		
	For classifying the acoustic output <i>L</i> Aeq, <i>T</i> , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.		
TE II	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 Testi	度份 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		
立讯检测股份	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 ting Lab	女讯检测



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	programme simulation noise to 85 dB, but the	Till Lab	
	average music level of the song is only 65 dB,	LCS 10	
	there is no need to give a warning or ask an		
	acknowledgement as long as the average sound		
	level of the song is not above the basic limit of 85		
10.6.2.2	dB. RS1 limits (to be superseded, see 10.6.3.2)		N/A
10101212			14// (
	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	- TIII	
	setting or automatic detection, the LAeq, T acoustic	古话位	
	output shall be ≤ 85 dB when playing the fixed	MST LCS Testi	
	"programme simulation noise" described in EN	1	
	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.		
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	7. 检测股份	N/A
	RS2 is a class 2 acoustic energy source that does	II Villesting Lab	
	not exceed the following:	rcs.	
	- for equipment provided as a package (player with		
	its listening device), and with a proprietary		
	connector between the player and its listening		
	device, or when the combination of player and		
	listening device is known by other means such as		
	setting or automatic 130 detection, the LAeq, T		
	acoustic output shall be ≤ 100 dB(A) when playing		
	the fixed "programme simulation noise" as		
	described in EN 50332-1.		
	<ul> <li>for equipment provided with a standardized</li> </ul>		
	<ul> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that</li> </ul>		
	<ul> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general</li> </ul>	7.检测	
	<ul> <li>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</li> </ul>	工讯检测	
	<ul> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital</li> </ul>	TE TIN 位河	
	<ul> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme</li> </ul>	LCS TOSTI	
10.6.2.4	<ul> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital</li> </ul>	LCS Tosti	
10.6.2.4	– for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	LCS Test	N/A
10.6.2.4	<ul> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.</li> <li>RS3 limits</li> </ul> RS3 is a class 3 acoustic energy source that	LCS Test	
10.6.2.4	<ul> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.</li> <li>RS3 limits</li> </ul>	LCS Tosti	
10.6.3	<ul> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.</li> <li>RS3 limits</li> </ul> RS3 is a class 3 acoustic energy source that	LCS Testi	
10.6.2.4 10.6.3 10.6.3.1	<ul> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.</li> <li>RS3 limits</li> <li>RS3 is a class 3 acoustic energy source that exceeds RS2 limits.</li> </ul>	THAN LCS TEST	N/A
10.6.3	<ul> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.</li> <li>RS3 limits</li> <li>RS3 is a class 3 acoustic energy source that exceeds RS2 limits.</li> <li>Classification of devices (new)</li> <li>General</li> </ul>	LCS Test	N/A
10.6.3	<ul> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.</li> <li>RS3 limits</li> <li>RS3 is a class 3 acoustic energy source that exceeds RS2 limits.</li> <li>Classification of devices (new)</li> <li>General</li> <li>Previous limits (10.6.2) created abundant false</li> </ul>	LCS Test	N/A
10.6.3	<ul> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.</li> <li>RS3 limits</li> <li>RS3 is a class 3 acoustic energy source that exceeds RS2 limits.</li> <li>Classification of devices (new)</li> <li>General</li> </ul>	LCS Testi	N/A N/A



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下 : 1 1 1 1 1 1 a	below.	- iff the part Lab	上沿極洲
10.6.3.2	RS1 limits (new)	LCS Testing L	N/A
	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.		<b>品价</b>
TEA IC	<ul> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.</li> </ul>	LCS Testi	ng Lab
10.6.3.3	RS2 limits (new)		N/A
立讯检测股份 LCS Testing Lal	RS2 is a class 2 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN50332-1.	立语检测度份 LCS Testing Lab	立讯检测 LCS Testi
10.6.4	Requirements for maximum sound exposure		N/A
10.6.4.1	Measurement methods  All volume controls shall be turned to maximum during tests.	LCS Testi	N/A
	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.  NOTE 1 Volume control is not considered a		N/A
	safeguard.	古讯检测股价	一话检测



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立语型 LCS Testing L	Between RS2 and an ordinary person, the basic safeguard may be replaced by an instructional	立语 <sup>企业</sup> LCS Testing Lab	立语和
	safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed		
	on the equipment, or on the packaging, or in the		
	instruction manual. Alternatively, the <b>instructional safeguard</b> may be		
	given through the equipment display during use.		
	The elements of the <b>instructional safeguard</b> shall be as follows:		
	- element 1a: the symbol , IEC 60417-6044 (2011-01)		<b>公</b> 份
VS T	<ul><li>– element 2: "High sound pressure" or equivalent wording</li></ul>		ng Lab
	<ul> <li>– element 3: "Hearing damage risk" or equivalent wording</li> </ul>		
	<ul> <li>element 4: "Do not listen at high volume levels for long periods." or equivalent wording</li> </ul>		
	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.		
立形位测股代 LCS Testing L	The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.	工讯检测度份 LOS Testing Lab	立语检测 LOS Testi
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.		
E	NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off.		股份 ng Lab
	A <b>skilled person</b> shall not be unintentionally exposed to RS3.		
10.6.5	Requirements for dose-based systems		N/A
10.6.5.1	General requirements		N/A
	Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.		
<b>二</b> 混检测度代	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to	- 讯检测股份	上海检测



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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.  The warning shall at least clearly indicate that	LA : 1111 BZ 17	Attachment No.1		11111-01
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.  10.6.5.2 Dose-based warning and requirements  When a dose of 100 % CSD is reached, and at least at every 100 % further increase of CSD, the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1.  The warning shall at least clearly indicate that	the state of the s	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	LCS Testing Lau	LCS Testil
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.  The warning shall at least clearly indicate that	e d h m c w ra	easy to understand explanation to the user of the dose management system, the risks involved, and now 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, carraces, etc.	TSI 工用位制	股份 ng Lab
least at every 100 % further increase of CSD, the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1.  The warning shall at least clearly indicate that	6.5.2 D	Dose-based warning and requirements		N/A
	le d a a	least at every 100 % further increase of CSD, the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically		
hearing damage or loss.	li: h	istening above 100 % CSD leads to the risk of hearing damage or loss.	11.17.10 ming Lab	N/0 #
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.	V e p p a te T re fa T E e lis s w le 1 tr	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.		N/A
NOTE In case the source is known not to be music (or test signal), the EL may be disabled.  10.6.6 Requirements for listening devices (headphones, earphones, etc.)	(0	(or test signal), the EL may be disabled.	s earnhones etc.)	N/A



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Attachment No 1

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10.6.6.1	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.	S Testing Lab	N/A
10.6.6.2	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.  Corded listening devices with digital input		N/A
LES IL	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 $LAeq$ , $T$ acoustic output of the listening device shall be $\leq$ 100 dB with an input signal of -10 dBFS.	Les Testi	49 Law
10.6.6.3	Cordless listening devices		N/A
立形位测股份 LCS Testing Lal	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 $L$ Aeq, $T$ acoustic output of the listening device shall be $\leq$ 100 dB with an input signal of -10 dBFS.	A检测股份 S Testing Lab	立形位测 LCS Testi
10.6.6.4	Measurement method		N/A
.一道	Measurements shall be made in accordance with EN 50332-2 as applicable.	立形位列	股份 ng Lab
3	Modification to the whole document		



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	list		ST LCS Tes			CSTO		1/2	
		0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	1	
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	1	
			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		
	.1	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	W)	
Tea re	5	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	it;	
		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						
AC (1)	Мс	odification	to Clause 1	MS4 J 13		. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			
Ce Je	Ac	<b>Id</b> the follow	ving note:		1/2	CSJES		Vē	N/A
	an	d electronic	use of certair equipment is 2011/65/EU.						

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



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Attachment No.1

	Attachment No.1	rv : : : : : : : : : : : : : : : : : : :	MF-64
10.5.1	Add the following after the first paragraph:	Les Testing Lab	N/A
	For RS 1 compliance is checked by measurement under the following conditions:		
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.		
工工工	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	TT THE	及份 ig Lab
	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.		
	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形位测股份	拉讯检测
LCSTestino	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	LCS Testing	LCS Test
9	Modification to G.7.1		
G.7.1	Add the following note:		N/A
	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.		

10	Modification to Bibliography	



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**Attachment No.1** 

	Attachment No.1		LA-111
世讲他 ting Lat	Add the following notes for the standards indicated:		N/A
LCS Tes	NSA LCS Tes	Mar	
	IEC 60130-9 NOTE Harmonized as EN 60130-9.		
	IEC 60269-2 NOTE Harmonized as HD 60269-2.		
	IEC 60309-1 NOTE Harmonized as EN 60309-1.		
	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series		
	IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.	•	
	IEC 60664-5 NOTE Harmonized as EN 60664-5.		
	IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified).		
	IEC 61508-1 NOTE Harmonized as EN 61508-1.		
	IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1.		
	IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4.		
	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6.		
	IEC 61643-1 NOTE Harmonized as EN 61643-1.	? [III] F	
工艺	IEC 61643-21 NOTE Harmonized as EN 61643-21.	octif	
MSI LC	IEC 61643-311 NOTE Harmonized as EN 61643-311.	63.	
	IEC 61643-321 NOTE Harmonized as EN 61643-321.		
	IEC 61643-331 NOTE Harmonized as EN 61643-331.		
11	ADDITION OF ANNEXES		
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		
4.1.15	Denmark, Finland, Norway and Sweden		N/A
立讯检测股份 LCS Testing Lab	To the end of the subclause the following is added:  Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.	TE.	
	The marking text in the applicable countries shall be as follows:		
VS TV	In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In <b>Finland</b> : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In <b>Norway</b> : "Apparatet må tilkoples jordet stikkontakt" In <b>Sweden</b> : "Apparaten skall anslutas till jordat	i开检测师 cs Testin	



uttag"





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大语 <sup>他说明</sup> Lal	Attachment No.1	THE THE Lab	古湖植洲
4.7.3	United Kingdom	LCS Testing	N/A
	To the end of the subclause the following is added:		
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be		
	assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex		
5.2.2.2	Denmark		N/A
	After the 2nd paragraph add the following:		
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	女孫检測	
5.4.11.1	Finland and Sweden	VISA TOSTEST	N/A
and	To do so to file a chale so do file to the land	1	
Annex G	To the end of the subclause the following is added:		
	For separation of the telecommunication network from earth the following is applicable:		
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either		
	two layers of thin sheet material, each of which shall pass the electric strength test below, or		
	<ul> <li>one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.</li> </ul>	LiR检测股份 Los Testing Lab	TINIO (
	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		· ·
	<ul> <li>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),</li> </ul>	TET Les Tosti	
	and	1	
	<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.		
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	(人) 加隆份	



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Attachment No.1

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下出版 _ rap	Attachment No.1	- if fill in Lab	一江河
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 Testins	LCS Test
	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.	lare .	设份
5.5.2.1	Norway  After the 3rd paragraph the following is added:	THE LOS TOSTI	₃√Ñ/A
	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  To the end of the subclause the following is added:		N/A
	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.	(代理)	. ~ .
5.6.1 Los Testing Lab	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:	CS Testing Lab	N/A
	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  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	N/A
5.6.4.2.1	France  After the indent for pluggable equipment type A, the following is added:  – in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A.		N/A



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上記憶 加加 Lab	Attachment No.1		
5.6.5.1	To the second paragraph the following is added:	CS 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	(順)	N/A
	To the end of the subclause the following is added:	Les Testin	18 Fan
	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
	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.	上讯检测股份 CCS Testing 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:	TAT LCS Testil	受份 <sub>g Lab</sub>
	"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)"		
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	如 16 到 152 77	



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Attachment No.1

下出海 Lab	Attachment No.1	上:H I Lab	一进河水
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.	CSTESUMS	S LCS Testi
IS THE	Translation to Norwegian (the Swedish text will also be accepted in Norway):  "Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV	TEL THE	则是代 muse Lab
	nettet."  Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."		
8.5.4.2.3	United Kingdom		N/A
立语检测股份	Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:	T语检测度份	立语检测的
I res .	An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	Too.	rcs.
B.3.1 and	Ireland and United Kingdom		N/A
B.4	The following is applicable:		
TE 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 B.3.1 and B.4 are met	TEL TESTES	则受价 civg Lab
G.4.2	Denmark		N/A
	To the end of the subclause the following is added:		
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.		
一些测股份	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect	14 测胜份	1 MF 246 2



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Attachment No.1

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Table - rap	Attachment No. I	E HATTE LAD	下 沿 海
LCS Testins	contact is required according to the wiring rules shall be provided with a plug in accordance with	LCS Testing	LCS Testil
	standard sheet DK 2-1a or DK 2-5a.		
	If a single-phase equipment having a RATED		
	CURRENT exceeding 13 A or if a polyphase		
	equipment is provided with a supply cord with a		
	plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN		
	60309-2.		
	Mains socket outlets intended for providing power		
	to Class II apparatus with a rated current of 2,5 A		0.5
	shall be in accordance DS 60884-2-D1:2011		设彻
拉拉讲	standard sheet DKA 1-4a.	II II Testi	ig ran
Too res	Other current rating socket outlets shall be in	1/3/1 rcs	
	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		
	Sa or DK 1-7a		
	Justification:		
	Heavy Current Regulations, Section 6c		
G.4.2	United Kingdom	14 到 1 日 1 日 1 日 1 日 1 日 1 日 1 日 1 日 1 日 1	N/A
立河和Lab	To the end of the subclause the following is added:	Liff My Lab	其识和
LCS	1/30 rc2 .	Celle	LCS
	The plug part of direct plug-in equipment shall be		
	assessed to BS 1363: Part 1, 12.1, 12.2, 12.3,		
	12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than		
	125 °C. Where the metal earth pin is replaced by		
	an Insulated Shutter Opening Device (ISOD), the		
	requirements of clauses 22.2 and 23 also apply.		
G.7.1	United Kingdom		N/A
	To the first paragraph the following is added:		
	Equipment which is fitted with a flexible cable or		D.4分
Fi سے	cord and is designed to be connected to a mains	LCS Testi	a Lab
VIST 1 CS	socket conforming to BS 1363 by means of that	UST CS Testi	19
	flexible cable or cord shall be fitted with a 'standard	1	
	plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument		
	1994 No. 1768, unless exempted by those		
	regulations.		
	NOTE "Standard plug" is defined in SI 1768:1994		
	and essentially means an approved plug		
	conforming to BS 1363 or an approved conversion		
	plug.		



\*





Attachment No.1

G.7.1	Ireland	LCS Testing	Ne.	N/A
	To the first paragraph the following is add	ded:		
G.7.2	Apparatus which is fitted with a flexible care cord shall be provided with a plug in access with Statutory Instrument 525: 1997, "13 and Conversion Adapters for Domestic U Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Memwhich is equivalent to the relevant Irish State Ireland and United Kingdom  To the first paragraph the following is added A power supply cord with a conductor of its allowed for equipment which is rated or	ordance A Plugs lse he aber State tandard  ded:  1,25 mm <sup>2</sup>	上CS Tosti	N/A
ZC	and up to and including 13 A.  ANNEX ZC, NATIONAL DEVIATIONS (B.	=NI\		
10.5.2	Germany	_iv)		N/A
立讯检测股份 Los Testing La	The following requirement applies:  For the operation of any cathode ray tube for the display of visual images operating acceleration voltage exceeding 40 kV, au is required, or application of type approval (Bauartzulassung) and marking.  Justification: German ministerial decree against ionizin radiation (Röntgenverordnung), in force se 2002-07-01, implementing the European 96/29/EURATOM.  NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig Tel.: Int+49-531-592-6320, Internet:	at an atthorization		







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#### Attachment No.1

ZD	IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS (EN)			
	Type of flexible cord	Code designations		N/A
		IEC	CENELEC	
	PVC insulated cords		I	
	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
The res	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	
立 研 を	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H	· · · · · · · · · · · · · · · · · · ·
	Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	LCST
	Cords insulated and sheathed with halogen- free thermoplastic compounds			
	Light halogen-free thermoplastic insulated and		H03Z1Z1-F	



sheathed flexible cords

sheathed flexible cords

Ordinary halogen-free thermoplastic insulated and





H03Z1Z1H2-F

H05Z1Z1H2-F

H05Z1Z1-F

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**Attachment No.2** 

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Details of:

External view



Details of: External view





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**Attachment No.3** 

External view Details of:



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Details of: **External View** 





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Details of: External View



Details of: Internal view





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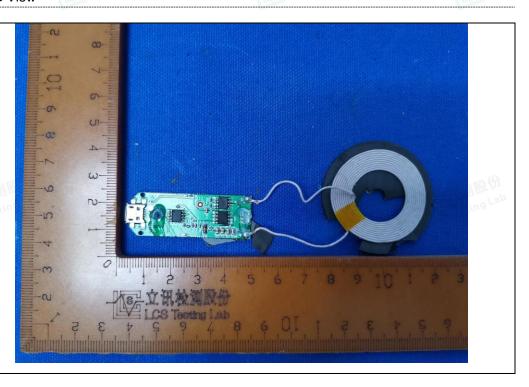


**PCB** View Details of:

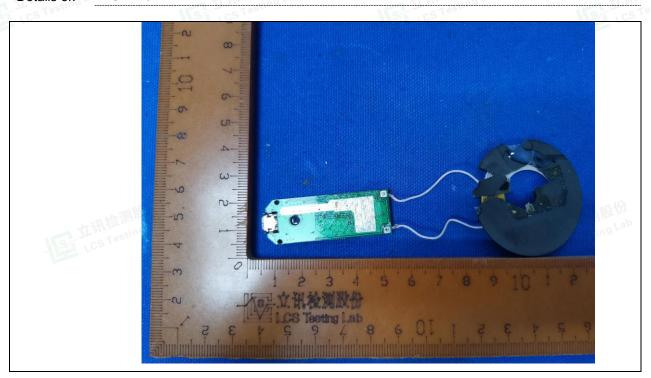
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**Attachment No.3** 



**PCB** View Details of:





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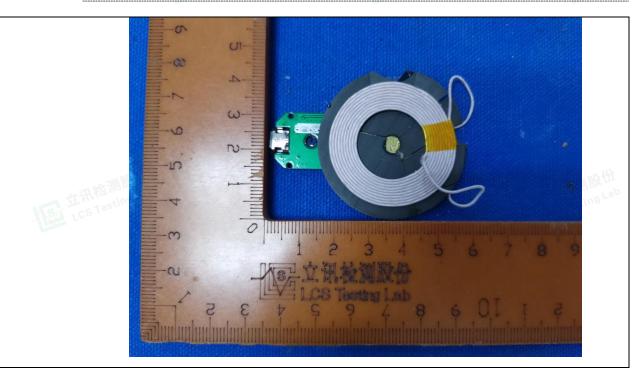


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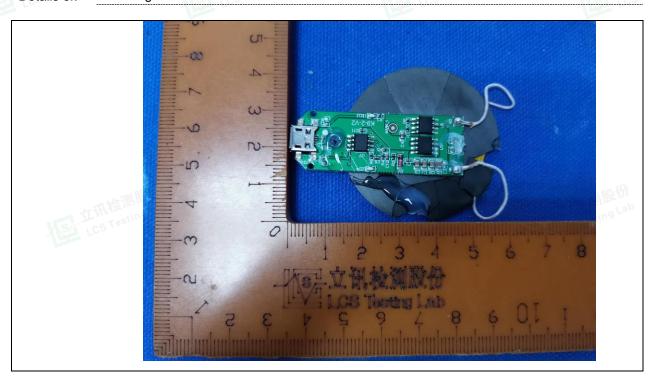
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Details of:

Winding View



Details of: Winding View



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



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#### **Attachment No.3**

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History of Amendments					
Date of issued	Report No.	Comment	Revised By		
2022-10-18	LCSA100822073S	Original Test Report	David Ma		
2022-11-01	LCSA100822073S001	Amendment 1 Report:	David Ma		
	测股份 sting Lab	This report is based on the report No. LCSA100822073S. This report is invalid without the original report The following are considered non-technical changes:  1. Change the Copy of marking plate.	工讯检测股份 LCS Testing La		
		After construction review and verification of electrical spacing, no additional tests were considered necessary.			















