



TEST REPORT EN 62368-1

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

Report Number....: LCSA06054125S

Date of issue: 2024-06-18

Total number of pages: 75

Name of Testing Laboratory

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

Address: 7/F., King Tower, 111King Lam Street, Cheung ShaWan, Kowoon,

HongKong.

Test specification:

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

Test procedure....:: Type test

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

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

Test Report Form No.....: TRF-4-S-132 A/0

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

Master TRF: Dated 2022-04-14

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

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Approved by.....

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Lab tillim	and Lab	age 2 01 7 0	110poit 110.: 200/1000341230
Test item description	WIRE	LESS SPEAKER	LCS Tes
Trade Mark:	N/A		
Manufacturer:	Same	as applicant	
Model/Type reference:	CX144	19	
Ratings:	Input:	5V === 0.5A	
	Batter	y: 3.7V=== 300mAh	
Responsible Testing Laboratory (as	applical	ole), testing procedure	and testing location(s):
☐ Testing Laboratory:		Shenzhen LCS Complia	ance Testing Laboratory Ltd.
Testing location/ address	1/5		g A and Room 301, Building C, ianxueziwei, Shajing Street, en, Guangdong, China
Prepared by	:	Tim Pang Project Handler	
Checked by	:	Benson Kuai Reviewer	
		Hart Qiu	

Technical Director





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List of Attachments (including a total number of I	pages in each attachment):
-Attachment No. 1: National Differences	
-Attachment No. 2: Photo Documentation	
Summary of testing:	
Tests performed (name of test and test clause):	Testing location:
Electrical safety:	Shenzhen LCS Compliance Testing Laboratory Ltd.
> EN IEC 62368-1:2020+A11:2020	Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong,
一位测度份	China
Summary of compliance with National Difference	S: asting Law
List of countries addressed: National Differences No. 1. ☑ The product fulfils the requirements of EN IEC	•
Use of uncertainty of measurement for decisions ☑ No decision rule is specified by the IEC standard, applicable limit according to the specification in that swithout applying the measurement uncertainty ("simple standard or specification in the specification	when comparing the measurement result with the standard. The decisions on conformity are made
"accuracy method").	ne acceptance decision rule, previously known as
河检测股门	四校测股77
Other: (to be specified, for example when requi accreditation requirements apply)	red by the standard or client, or if national
Information on uncertainty of measurement: The uncertainties of measurement are calculated by by OD-5014 for test equipment and application of test procedures of IECEE. IEC Guide 115 provides guidance on the application the decision rule when reporting test results within IE measurement uncertainty for measurements is not not customer. Calculations leading to the reported values are on file the testing.	of measurement uncertainty principles and applying CEE scheme, noting that the reporting of the
the toothing.	774.776







Copy of marking plate:

The artwork below may be only a draft.

Wireless speaker⊬

Model:CX 1449₽ Frequency range:

√ Input: 5V===0.5A+ 2402-2480MHZ4

Battery: 3.7V===300mAh

√ Maximum RF power:
√

13dBm(EIRP)₽

7/F King Tower,111King Lam Steet, ₽

Cheung Sha Wan Kowloon HongKong ₽ PO4100XXXXXX↓

Importer:XXXX Address:XXXX ← Made In China₽







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Note:

1. The height dimension of CE symbol should not less than 5mm, the height dimension of WEEE symbol should not less than 7mm.





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Product group	Test item particulars:	184 res
Instructed person	Product group	
Skilled person	Classification of use by	☐ Ordinary person ☐ Children likely present
AC mains		
Not mains connected: ES1 ES2 ES3		·
Supply tolerance	Supply connection::	☐ AC mains ☐ DC mains
Supply tolerance +10%/-10% +20%/-15% + %/ - % None		
+20%/-15%		
+ %/ - % None Pluggable equipment type A - non-detachable supply cord appliance coupler direct plug-in pluggable equipment type B - non-detachable supply cord appliance coupler direct plug-in pluggable equipment type B - non-detachable supply cord appliance coupler permanent connection mating connector cother: Not directly connected to the mains A; Location: building equipment N/A Equipment mobility Mil/ceiling-mounted SRME/rack-mounted other: Ovc II Not classified Special installation location N/A restricted access area outdoor location PD1 PD2 PD3 Manufacturer's specified T _{ma} 25 °C Outdoor: minimum °C P protection class IPX0 IP POwer systems IPX0 IP POwer systems IPX0 IP POwer less m Altitude during operation (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test laboratory (m) S000 m or less m Maltitude of test labo	Supply tolerance:	
None Supply connection – type	-1 ST 47	
Supply connection – type	开位测M2hab	151 151 17 . NO
non-detachable supply cord appliance coupler direct plug-in pluggable equipment type B - non-detachable supply cord appliance coupler direct plug-in pluggable equipment type B - non-detachable supply cord appliance coupler permanent connection mating connector other: Not directly connected to the mains A; Location: building equipment N/A Movable hand-held transportable direct plug-in stationary for building-in wall/ceiling-mounted SRME/rack-mounted other: OVC I OVC II OVC III OVC III OVC IV other: Supplied by Max. DC 5V Class of equipment Class II Class II Not classified N/A restricted access area outdoor location Pollution degree (PD) PD 1 PD 2 PD 3 Manufacturer's specified T _{ma} 25 °C Outdoor: minimum °C Power systems IPX0 IP_ IPX0 IP_ Power systems IPX0 IP IPX0 IP IPX0 IP IPX0	Supply connection type	7 103
appliance coupler direct plug-in pluggable equipment type B - non-detachable supply cord appliance coupler permanent connection mating connector other: Not directly connected to the mains A; Location: building equipment wall/ceilling-mounted SRME/rack-mounted other: Overvoltage category (OVC) OVC	Supply connection – type	
direct plug-in pluggable equipment type B - non-detachable supply cord appliance coupler permanent connection mating connector other: Not directly connected to the mains A;		• • •
pluggable equipment type B -		· · · · · · · · · · · · · · · · · · ·
non-detachable supply cord appliance coupler permanent connection mating connector other: Not directly connected to the mains A; Location: building equipment equipment M/A movable hand-held transportable direct plug-in stationary for building-in wall/ceiling-mounted SRME/rack-mounted other: OVC IV other: Supplied by Max. DC 5V Class of equipment Class I Class II Class III Special installation location M/A restricted access area outdoor location PD 1 PD 2 PD 3 Manufacturer's specified T _{ma} . 25 °C Outdoor: minimum °C IPXO IP POwer systems IPXO IP IP IT - V V LL Not AC mains Altitude during operation (m) Soo m or less m Altitude of test laboratory (m) Soo m or less m Matina It is applied to the mains Altitude of test laboratory (m) Soo m or less m m IT IT - V LL IT IT IT IT IT IT IT		
appliance coupler permanent connection mating connector other: Not directly connected to the mains A; Location: building equipment M/A		
mating connector considered current rating of protective device		• • •
Other: Not directly connected to the mains		permanent connection
Considered current rating of protective device		mating connector
device : Location:		other: Not directly connected to the mains
Equipment mobility		RG 70
Equipment mobility ::	device:	74.41.61
direct plug-in	CS Testing	
wall/ceiling-mounted SRME/rack-mounted other: Overvoltage category (OVC) : OVC	Equipment mobility:	
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 :: N/A restricted access area Outdoor location Pollution degree (PD) :: PD 1 PD 2 PD 3 Manufacturer's specified T _{ma} 25 °C Outdoor: minimum °C IP protection class :: IPX0 IP_ Power systems :: TN TT IT V_L Not AC mains Altitude during operation (m) :: 2000 m or less m Altitude of test laboratory (m) :: 500 m or less m		
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 :: N/A restricted access area outdoor location Pollution degree (PD) :: PD 1 PD 2 PD 3 Manufacturer's specified T _{ma} 25 °C Outdoor: minimum °C IP protection class :: IPX0 IP Power systems :: IPX0 IP Not AC mains Altitude during operation (m) :: 2000 m or less m Altitude of test laboratory (m) :: 500 m or less m		
Class of equipment	Overvoltage category (OVC):	
Class of equipment : □ Class I □ Class II □ Class III □ Not classified □ Not classified □ restricted access area □ outdoor location □ Pollution degree (PD) : □ PD 1 □ PD 2 □ PD 3 Manufacturer's specified T _{ma} : 25 °C □ Outdoor: minimum °C IP protection class : □ IPX0 □ IP □ POwer systems : □ TN □ TT □ IT - V L·L □ not AC mains Altitude during operation (m) : □ 2000 m or less □ m Altitude of test laboratory (m) : □ 500 m or less □ m	(0.00,000,000,000,000,000,000,000,000,00	
Special installation location :	Class of equipment:	
outdoor location Pollution degree (PD) PD 1 PD 2 PD 3 Manufacturer's specified T _{ma} 25 °C Outdoor: minimum °C IP protection class IPX0 IP Power systems ITN IT IT - V L-L Not AC mains Matitude during operation (m) 2000 m or less m Altitude of test laboratory (m) 500 m or less m		☐ Not classified ☐
Pollution degree (PD) : □ PD 1 □ PD 2 □ PD 3 Manufacturer's specified Tma : 25 °C □ Outdoor: minimum °C IP protection class : □ IPX0 □ IP Power systems : □ TN □ TT □ IT - V L-L □ not AC mains Altitude during operation (m) : □ 2000 m or less □ m Altitude of test laboratory (m) : □ 500 m or less □ m	Special installation location:	
Manufacturer's specified T _{ma} : 25 °C ☐ Outdoor: minimum °C IP protection class : ☐ IPX0 ☐ IP Power systems : ☐ TN ☐ TT ☐ IT - V L-L ☐ not AC mains Altitude during operation (m) : ☐ 2000 m or less ☐ m Altitude of test laboratory (m) : ☐ 500 m or less ☐ m		
Power systems: TN TT TT TT VLL not AC mains Altitude during operation (m)	Pollution degree (PD):	☐ PD 1 ☐ PD 2 ☐ PD 3
Power systems: TN TT TT TT VLL not AC mains Altitude during operation (m)	Manufacturer's specified T _{ma} :	25 °C Outdoor: minimum °C
	IP protection class:	□ IP
	Power systems:	□TN □TT □IT - V _{L-L}
Altitude of test laboratory (m): \(\sum 500 \) m or less \(\sum m \)	_	
	Altitude during operation (m):	
Mass of equipment (kg) • 0.105 kg	Altitude of test laboratory (m):	⊠ 500 m or less
Mass of equipment (kg)	Mass of equipment (kg):	<u>0.105</u> kg





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Possible test case verdicts:	VSU real
	NI/A
- test case does not apply to the test object:	
- test object does meet the requirement:	,
- test object does not meet the requirement:	F (Fail)
Testing:	
Date of receipt of test item:	2024-06-05
Date (s) of performance of tests:	From 2024-06-05 to 2024-06-18
Out and the second seco	-m kg ns
General remarks:	· 讯恒 ^{pha} Lab
	·
The application for obtaining a CB Test Certificate	☐Yes
includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are)	Not applicable ■
representative of the products from each factory has been provided	文讯检测股份 ting Lab
When differences exist; they shall be identified	in the General product information section.
Name and address of factory (ies)::	Same as manufacturer
General product information and other remarks	s:
 The product was submitted and tested for use temperature (Tma) of 25°C. 	e at the manufacturer's recommended ambient





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Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: All circuits (5V)	Ordinary	N/A	N/A	N/A
ES1: Battery(4.2V)	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S
PS1: <15 Watt circuit (Internal circuit)	All circuits	N/A	N/A	N/A
7 Injury caused by hazardous substances				
Class and Energy Source	Body Part Safeguards			
(e.g. Ozone)	(e.g., Skilled)	В	S	R
Battery	Ordinary	N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Edges and corners	Ordinary	N/A	N/A	N/A
MS1: less than 7kg	Mass of the unit	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source	Body Part		Safeguards	
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R
TS1: Enclosure	Ordinary	N/A	N/A	N/A
10	Radiation			
Class and Energy Source	Body Part		Safeguards	
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R
RS1: LED indicator light	Ordinary	N/A	N/A	N/A
LED Lamp (complies with Exempt Group of IEC 62471: 2006)	Ordinary	N/A	N/A	N/A
2000)				

"B" - Basic Safeguard; "S" - Supplementary Safeguard; "R" - Reinforced Safeguard



Scan code to check authenticity



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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

⊠ES ⊠ PS ⊠ MS ⊠ TS ⊠RS





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一识检测形	划 Lab 法被测度的	EC 62368-1	上讯检讯
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	- HA	N/A
4.1.8	Liquids and liquid filled components (LFC)	古讯检测版 Lab	N/A
4.1.15	Markings and instructions	(See Annex F)	I POTO
4.4.3	Safeguard robustness		Р
4.4.3.1	General		Р
4.4.3.2	Steady force tests	(See Annex T.2, T.4)	Р
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests		N/A
4.4.3.5	Internal accessible safeguard tests	No such safeguard.	N/A
4.4.3.6	Glass impact tests	No such glass used.	N/A
4.4.3.7	Glass fixation tests	The same	N/A
WS! I	Glass impact test (1J)	T the correct	N/A
1	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness		N/A
4.4.4	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks		N/A
4.5	Explosion		Р





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:识检测段	IEC 62368-1	· A A M RETURN	上讯检
Clause	Requirement + Test	Result - Remark	Verdict
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions.	Р
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	Р
	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	Fixing of conductors		Р
	Fix conductors not to defeat a safeguard		Р
	Compliance is checked by test:	44.11	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
A TIME ARE	Open torque test	(二) 股份	N/A
4.8.4.2	Stress relief test	Till Marting Lab	N/A
4.8.4.3	Battery replacement test	, Los	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	一、田位河	N/A
4.10.1	Disconnect Device	157 LCSTest	N/A
4.10.2	Switches and relays		N/A
5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy source	ces	Р

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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EH ME JUNEAU	IEC 62368-1	古语位为 Lab	世田恒
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		Р
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)	工绘测股份	N/A
5.3.2.2 b)	Air gap – distance (mm):	TWITE TESTING LO	N/A
5.3.2.3	Compliance	15	N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements		Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	Р
5.4.1.3	Material is non-hygroscopic	No hygroscopic material used.	Р
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	Р
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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Clause	IEC 62368-1	Result - Remark	Verdict
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	上:开检河	N/A
187 L	Clearances in circuits connected to AC Mains, Alternative method	LCS TOS	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:		_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	立河(近) Leb LCS Testing Leb	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	一方讯位于	N/A
5.4.4.2	Minimum distance through insulation:	151 LCS Tes	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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THIN LE	IEC 62368-1	Tritl (III) Lab	江江江
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)		N/A
181 L	Alternative by electric strength test, tested voltage (V), K_R	IST LOST OST	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	立语检测加 LCS Testing Lab	N/A
5.4.8	Humidity conditioning	12	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	\~ :III	N/A
5.4.10.2	Test methods	Till Till Assess	N/A
5.4.10.2.1	General	Too .	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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IEC 62368-1			
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 _{op} (V):		_
	Nominal voltage U _{peak} (V):		_
	Max increase due to variation ΔU_{sp} :		_
1	Max increase due to ageing ΔU _{sa} :	女讯检测	_
5.4.11.3	Test method and compliance:	LCS TO	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	工绘测股份	N/A
5.5.2.1	General requirement	T. Milesting La	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	工活剂	N/A
-154	RCD rated residual operating current (mA):	184 100	_
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





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识检测应	IEC 62368-1	上ab Lab	一刊检
Clause	Requirement + Test	Result - Remark	Verdict
5.6.3	Requirement for protective earthing conductors		N/A
	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):	专用检测	_
5.6.4.2	Protective current rating (A):	LCS Tes	N/A
5.6.5	Terminals for protective conductors		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:	上讯检测股 ^分	N/A
5.6.6.3	Resistance (Ω) or voltage drop:	LCS Testing	N/A
5.6.7	Reliable connection of a protective earthing conductor		N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm ²):		N/A
	Class II with functional earthing marking:		N/A
	Appliance inlet cl & cr (mm):		N/A
5.7	Prospective touch voltage, touch current and pro	otective conductor current	N/A
5.7.2	Measuring devices and networks		N/A
5.7.2.1	Measurement of touch current	一、田位刊	N/A
5.7.2.2	Measurement of voltage	IST LCS Tes	N/A
5.7.3	Equipment set-up, supply connections and earth connections		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





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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Instructional Safeguard:		N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits		N/A
5.7.7.1	Touch current from coaxial cables		N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables		N/A
5.7.8	Summation of touch currents from external circuits		N/A
	a) Equipment connected to earthed external circuits, current (mA): :		N/A
1/2/	b) Equipment connected to unearthed external circuits, current (mA):	LCS TOS	N/A
5.8	Backfeed safeguard in battery backed up supplie	es	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	可检测股份	N/A
6.2.3.1	Arcing PIS	T. M. Testing	N/A
6.2.3.2	Resistive PIS		N/A
6.3	Safeguards against fire under normal operating a conditions	nd abnormal operating	Р
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table B.3)	Р
	Combustible materials outside fire enclosure:		N/A
6.4	Safeguards against fire under single fault conditions		Р
6.4.1	Safeguard method		an HP
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	NSG 立河位的	ng LP
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		Р
6.4.5	Control of fire spread in PS2 circuits		N/A





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Clause	Requirement + Test	Result - Remark	Verdict
Clause	requirement + rest	Tresuit - Tremain	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		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	MST CS Test	N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings	N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top openings and properties		N/A
	Openings dimensions (mm):	No fire enclosure required.	N/A
6.4.8.3.4	Bottom openings and properties		N/A
-1	Openings dimensions (mm):	No fire enclosure required.	N/A
识检测股节	Flammability tests for the bottom of a fire enclosure	上田检测股份	N/A
CS Testing	Instructional Safeguard:	LCS Testing	N/A
6.4.8.3.5	Side openings and properties		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	Tr. 02.	N/A
6.5.2	Requirements for interconnection to building wiring	LCS Test	N/A
6.5.3	Internal wiring size (mm ²) for socket-outlets:		N/A
6.6	Safeguards against fire due to the connection to	additional equipment	Р

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	Р
7.2	Reduction of exposure to hazardous substances	Р
7.3	Ozone exposure	N/A





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IEC 62368-1				
Clause	Requirement + Test Result - Remark	Verdict		
7.4	Use of personal safeguards or personal protective equipment (PPE)	N/A		
	Personal safeguards and instructions:	_		
7.5	Use of instructional safeguards and instructions	N/A		
	Instructional safeguard (ISO 7010):	_		
7.6	Batteries and their protection circuits	Р		

8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classifications	· 167	P
8.3	Safeguards against mechanical energy sources		N/A
8.4	Safeguards against parts with sharp edges and c	orners	Р
8.4.1	Safeguards		N/A
	Instructional Safeguard:		N/A
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	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
iA检测股外	MS2 or MS3 part required to be accessible for the function of the equipment	工语检测度份 ting Lab	N/A
CS	Moving MS3 parts only accessible to skilled person	r _{Ce}	N/A
8.5.2	Instructional safeguard		N/A
8.5.4	Special categories of equipment containing moving parts		N/A
8.5.4.1	General		N/A
8.5.4.2	Equipment containing work cells with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work cell		N/A
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system		N/A
8.5.4.2.2.2	Visual indicator	T Tillian	N/A
8.5.4.2.3	Emergency stop system	100	N/A
	Maximum stopping distance from the point of activation (m)		N/A
	Space between end point and nearest fixed mechanical part (mm):		N/A
8.5.4.2.4	Endurance requirements		N/A
	Mechanical system subjected to 100 000 cycles of operation		N/A





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Clause	Doguiroment L Test	Decult Demark	Vardiet
Clause	Requirement + Test	Result - Remark	Verdict
	- Mechanical function check and visual inspection		N/A
	- Cable assembly:		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media		N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:		N/A
8.5.4.3.3	Disconnection from the supply		N/A
8.5.4.3.4	Cut type and test force (N)	T.A.	N/A
8.5.4.3.5	Compliance	THE TOTAL	N/A
8.5.5	High pressure lamps	1	N/A
	Explosion test:		N/A
8.5.5.3	Glass particles dimensions (mm):		N/A
8.6	Stability of equipment		N/A
8.6.1	General		N/A
	Instructional safeguard:		N/A
8.6.2	Static stability		N/A
8.6.2.2	Static stability test:	-11 PG	N/A
8.6.2.3	Downward force test	立语位为 Lab	N/A
8.6.3	Relocation stability	rce 1	N/A
	Wheels diameter (mm):		—
	Tilt test		N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test:		N/A
8.7	Equipment mounted to wall, ceiling or other struc	ture	N/A
8.7.1	Mount means type:		N/A
8.7.2	Test methods		N/A
2	Test 1, additional downwards force (N):	一田位刊	N/A
181	Test 2, number of attachment points and test force (N)	15 LCS Tes	N/A
	Test 3 Nominal diameter (mm) and applied torque (Nm):		N/A
8.8	Handles strength		N/A
8.8.1	General		N/A
8.8.2	Handle strength test		N/A





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	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	Force applied (N):		_	
8.9	Wheels or casters attachment requirements		N/A	
8.9.2	Pull test		N/A	
8.10	Carts, stands and similar carriers		N/A	
8.10.1	General		N/A	
8.10.2	Marking and instructions		N/A	
8.10.3	Cart, stand or carrier loading test		N/A	
	Loading force applied (N)		N/A	
8.10.4	Cart, stand or carrier impact test	IST ICS Test	N/A	
8.10.5	Mechanical stability		N/A	
	Force applied (N)		_	
8.10.6	Thermoplastic temperature stability		N/A	
8.11	Mounting means for slide-rail mounted equipment (SRME)		N/A	
8.11.1	General		N/A	
8.11.2	Requirements for slide rails		N/A	
	Instructional Safeguard		N/A	
8.11.3	Mechanical strength test	(本河) 股份	N/A	
8.11.3.1	Downward force test, force (N) applied:	Till Testing Lab	N/A	
8.11.3.2	Lateral push force test	100	N/A	
8.11.3.3	Integrity of slide rail end stops		N/A	
8.11.4	Compliance		N/A	
8.12	Telescoping or rod antennas	·	N/A	
	Button/ball diameter (mm):			

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits		Р
9.3.1	Touch temperatures of accessible parts	(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		N/A





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IEC 62368-1			上讯检
Clause	Requirement + Test	Result - Remark	Verdict
9.6.1	General		N/A
9.6.2	Specification of the foreign objects		N/A
9.6.3	Test method and compliance		N/A

10	RADIATION		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification	LED only used for indicating classified as RS1.	P
_ +	Lasers:	女讯检测	_
1184	Lamps and lamp systems:	LCSTes.	_
	Image projectors:		_
	X-Ray:		_
	Personal music player:		_
10.3	Safeguards against laser radiation		N/A
	The standard(s) equipment containing laser(s) comply:		N/A
10.4	Safeguards against optical radiation from lamps LED types)	and lamp systems (including	Р
10.4.1	General requirements	RS1	P
CS Testin	Instructional safeguard provided for accessible radiation level needs to exceed	TCS Testin	N/A
	Risk group marking and location		N/A
	Information for safe operation and installation		N/A
10.4.2	Requirements for enclosures		N/A
	UV radiation exposure		N/A
10.4.3	Instructional safeguard:		N/A
10.5	Safeguards against X-radiation		N/A
10.5.1	Requirements		N/A
	Instructional safeguard for skilled persons:	女讯检》	_
10.5.3	Maximum radiation (pA/kg):	LCS 188	_
10.6	Safeguards against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification		N/A
	Acoustic output $L_{Aeq,T}$, dB(A)		N/A
	Unweighted RMS output voltage (mV)		N/A
	Digital output signal (dBFS)		N/A
10.6.3	Requirements for dose-based systems		N/A



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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	n thi	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 _{Aeq,T} , dB(A)	:	N/A
10.6.6.3	Cordless listening devices		N/A
	Max. acoustic output L _{Aeq,T} , dB(A)	.:	N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		PA位于
B.1	General	100	Р
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:		Р
B.2.3	Supply voltage and tolerances	Rated voltage	Р
B.2.5	Input test:	(See appended table B.2.5)	W 4P
B.3	Simulated abnormal operating conditions		ng LP
B.3.1	General	Tes Ics	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		N/A
B.3.6	Reverse battery polarity		N/A





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讯检测版	IEC 62368-1	于····································	一识检
Clause	Requirement + Test	Result - Remark	Verdict
B.3.7	Audio amplifier abnormal operating conditions		Р
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		N/A
B.4.4	Functional insulation	See below.	股份P
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	ng Lap
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards used.	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4 for faults on electronic components)	Р
B.4.6	Short circuit or disconnection of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A
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		Р
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV rac	diation	N/A
C.1.2	Requirements		N/A
C.1.3	Test method	TF-A.	N/A
C.2	UV light conditioning test	工资	N/A
C.2.1	Test apparatus	100	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
	i		N/A





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· iH 拉ijiji iz i	IEC 62368-1	上 iH 拉 illi ik Lab	一田馆
Clause	Requirement + Test	Result - Remark	Verdict
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINI	NG AUDIO AMPLIFIERS	Р
E.1	Electrical energy source classification for audio	signals	Р
	Maximum non-clipped output power (W):		_
	Rated load impedance (Ω):		
	Open-circuit output voltage (V):		
	Instructional safeguard:		_
E.2	Audio amplifier normal operating conditions	- 河检测	BETT P
Man L	Audio signal source type:	MS/ LCS Test	_
	Audio output power (W):		_
	Audio output voltage (V):		_
	Rated load impedance (Ω):		_
	Requirements for temperature measurement		Р
E.3	Audio amplifier abnormal operating conditions		Р
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	Р
F.1	General	ars 44	Р
Lind Milling Ling Ling Ling Ling Ling Ling Ling L	Language:	English version provided and checked.	
F.2	Letter symbols and graphical symbols	13	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	Р
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	Р
F.3	Equipment markings	1	Р
F.3.1	Equipment marking locations	The required marking is located on the product is easily visible.	服化P ng Lab
F.3.2	Equipment identification markings	See copy of marking plate.	P
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		P
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	





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Claring	IEC 62368-1	Describe Demonto	\
Clause	Requirement + Test	Result - Remark	Verdic
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.	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	No such devices on the equipment	N/A
F.3.5.2	Switch position identification marking:	No switch used.	N/A
F.3.5.3	Replacement fuse identification and rating markings:	No such component used.	N/A
	Instructional safeguards for neutral fuse:		N/A
F.3.5.4	Replacement battery identification marking:		N/A
F.3.5.5	Neutral conductor terminal	See below.	N/A
F.3.5.6	Terminal marking location	Class III equipment	N/A
F.3.6	Equipment markings related to equipment classification	. 115	N/A
F.3.6.1	Class I equipment	云讯检测度 ⁷⁷	N/A
F.3.6.1.1	Protective earthing conductor terminal:	LCS Testins	N/A
F.3.6.1.2	Protective bonding conductor terminals:		N/A
F.3.6.2	Equipment class marking:		N/A
F.3.6.3	Functional earthing terminal marking:		N/A
F.3.7	Equipment IP rating marking:	IPX0.	
F.3.8	External power supply output marking:		N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р
WE T	语检测股份 CS Testing Lab	Till half	股份 ing Lab



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话检测证	IEC 62368-1	· 语位测量Lab	证证检
Clause	Requirement + Test	Result - Remark	Verdict
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking	B B Ng Lab
	122	remained legible.	
F.4	Instructions		P
	a).Information prior to installation and initial use		P
	b). Equipment for use in locations where children not likely to be present		N/A
	c). Instructions for installation and interconnection		Р
	d). Equipment intended for use only in restricted access area		N/A
ar.	e). Equipment intended to be fastened in place	ar th	N/A
A Million Fing	f). Instructions for audio equipment terminals	文讯位 ^{测加} Lab	N/A
LCS Test	g). Protective earthing used as a safeguard	LCSTes	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
	l). Equipment containing insulating liquid		N/A
	m) Installation instructions for outdoor equipment		N/A
F.5	Instructional safeguards	上 訊 检刊	N/A
G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General	No relay 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		N/A
G.2.2	Overload test		N/A





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田拉测品	IEC 62368-1	古·托拉河 Lab	世祖检
Clause	Requirement + Test	Result - Remark	Verdict
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance		N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs	No thermal cut-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)	立讯检测	N/A
G.3.1.2	Test method and compliance	Tea real	N/A
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics		N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors	No PTC thermistor used.	N/A
G.3.4	Overcurrent protection devices		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	台讯检测股份	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	LCS Testin	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	- 田位刊	N/A
G.5.1.2	Protection against mechanical stress	IST LCS Test	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





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Fill Minister	IEC 62368-1	Triff The Lab	拉訊检
Clause	Requirement + Test	Result - Remark	Verdict
G.5.3	Transformers		N/A
G.5.3.1	Compliance method	:	N/A
	Position	:	N/A
	Method of protection	:	N/A
G.5.3.2	Insulation		N/A
	Protection from displacement of windings	:	_
G.5.3.3	Transformer overload tests		N/A
G.5.3.3.1	Test conditions	b	N/A
G.5.3.3.2	Winding temperatures	VST CSTest	N/A
G.5.3.3.3	Winding temperatures - alternative test method		N/A
G.5.3.4	Transformers using FIW	No such FIW	N/A
G.5.3.4.1	General		N/A
	FIW wire nominal diameter	:	
G.5.3.4.2	Transformers with basic insulation only		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	10000000000000000000000000000000000000	N/A
G.5.3.4.5	Thermal cycling test and compliance	Tithing Lab	N/A
G.5.3.4.6	Partial discharge test	19	N/A
G.5.3.4.7	Routine test		N/A
G.5.4	Motors		N/A
G.5.4.1	General requirements		N/A
G.5.4.2	Motor overload test conditions		N/A
G.5.4.3	Running overload test		N/A
G.5.4.4.2	Locked-rotor overload test		N/A
	Test duration (days)	:	_
G.5.4.5	Running overload test for DC motors	b	N/A
G.5.4.5.2	Tested in the unit	LCS Tes	N/A
G.5.4.5.3	Alternative method		N/A
G.5.4.6	Locked-rotor overload test for DC motors		N/A
G.5.4.6.2	Tested in the unit		N/A
	Maximum Temperature	:	N/A
G.5.4.6.3	Alternative method		N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A





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Clause	Requirement + Test Result - Remark	150	Verdict
Clause	Result - Remark	7//2	verdict
G.5.4.9	Series motors		N/A
	Operating voltage:		_
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation		N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements		N/A
	Туре:	n检测	_
G.7.2	Cross sectional area (mm² or AWG):	STest	N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N):		N/A
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material		N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection	Me	N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Test method and compliance		N/A
	Overall diameter or minor overall dimension, <i>D</i> (mm):		_
	Radius of curvature after test (mm):		_
G.7.6	Supply wiring space		N/A
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements	用检测	N/A
G.7.6.2.2	Test with 8 mm strand	STes	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		N/A





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- HIM IN LE	IEC 62368-1	- All Malab	一二语恒
Clause	Requirement + Test	Result - Remark	Verdict
G.9.1	Requirements		N/A
	IC limiter output current (max. 5A):		_
	Manufacturers' defined drift:		_
G.9.2	Test Program		N/A
G.9.3	Compliance		N/A
G.10	Resistors		N/A
G.10.1	General		N/A
G.10.2	Conditioning	った刑	N/A
G.10.3	Resistor test	VST CS Test	N/A
G.10.4	Voltage surge test		N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers		N/A
Lin Ming Ling Ling Ling Ling Ling Ling Ling L	Optocouplers comply with IEC 60747-5-5 with specifics	立讯 ^[] LCS Testing Lab	N/A
	Type test voltage V _{ini,a} :		_
	Routine test voltage, V _{ini, b} :		_
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 股份
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	3	N/A
	Distance through insulation:		N/A
	Number of insulation layers (pcs):		_
G.13.6	Tests on coated printed boards		N/A





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一话检测应	IEC 62368-1	在 通 拉 测 hz Lab	一田位
Clause	Requirement + Test	Result - Remark	Verdict
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2	Test method and compliance		N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements:	No coating on component terminals considered to affect creepage or clearances.	N/A
G.15	Pressurized liquid filled components		N/A
G.15.1	Requirements	No such device provided within the equipment.	N/A
G.15.2	Test methods and compliance	USC LCS Test	N/A
G.15.2.1	Hydrostatic pressure test	1	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)	ar th	N/A
G.16.1	Condition for fault tested is not required	立语检测 Bab	N/A
LCSTess	ICX with associated circuitry tested in equipment	LCS Tess	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:	_ k-1	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General	100	N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz)		_
H.3.1.2	Voltage (V)		_
H.3.1.3	Cadence; time (s) and voltage (V):		_





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Olatica in the	IEC 62368-1	Day 185 Day and	Mandiat
Clause	Requirement + Test	Result - Remark	Verdict
H.3.1.4	Single fault current (mA):		_
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)	:	N/A
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		N/A
J.1	General	, 女 语检测	N/A
VSI :	Winding wire insulation	ST LCS Test	_
	Solid round winding wire, diameter (mm)	:	N/A
	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²)		N/A
J.2/J.3	Tests and Manufacturing		
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
	Instructional safeguard	:	N/A
K.2	Components of safety interlock safeguard mec	hanism	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe Fail-safe		N/A
K.5.1	Under single fault condition		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Test method and compliance		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements		N/A
	In circuit connected to mains, separation distance for contact gaps (mm)		N/A
	In circuit isolated from mains, separation distance for contact gaps (mm)	:	N/A
	Electric strength test before and after the test of K.7.2	:	N/A
K.7.2	Overload test, Current (A)		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A





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识检测胜	IEC 62368-1	上语检测版77	上讯检
Clause	Requirement + Test	Result - Remark	Verdict
L	DISCONNECT DEVICES		N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single-phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
	Instructional safeguard:		N/A
М	EQUIPMENT CONTAINING BATTERIES AND THE	EIR PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		Р
M.2.1	Batteries and their cells comply with relevant IEC standards:		Р
M.3	Protection circuits for batteries provided within the equipment		Р
M.3.1	Requirements		Р
M.3.2	Test method		Р
	Overcharging of a rechargeable battery	(See table B.4 and table Annex M)	Р
	Excessive discharging	(See table B.4 and table Annex M)	Р
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A
M.3.3	Compliance		Р
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		Р
M.4.1	General		Р
M.4.2	Charging safeguards	100	Р
M.4.2.1	Requirements		Р
M.4.2.2	Compliance:		Р
M.4.3	Fire enclosure:		Р
M.4.4	Drop test of equipment containing a secondary lithium battery		Р
M.4.4.2	Preparation and procedure for the drop test		Р





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EH TO Sting L	IEC 62368-1	Till III III III	拉识范
Clause	Requirement + Test	Result - Remark	Verdict
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::		Р
M.4.4.4	Check of the charge/discharge function		Р
M.4.4.5	Charge / discharge cycle test		Р
M.4.4.6	Compliance		Р
M.5	Risk of burn due to short-circuit during carrying		Р
M.5.1	Requirement		Р
M.5.2	Test method and compliance		Р
M.6	Safeguards against short-circuits		Р
M.6.1	External and internal faults	Internal fault testing had been conducted on the cell as part of compliance with IEC62133-2: 2017	Р
M.6.2	Compliance		Р
M.7	Risk of explosion from lead acid and NiCd batter	ies	N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
	Calculated hydrogen generation rate:		N/A
M.7.2	Test method and compliance		N/A
可检测股节	Minimum air flow rate, Q (m³/h):	可於測度的	N/A
M.7.3	Ventilation tests	I CS Testing	N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A
	Hydrogen gas concentration (%):		N/A
M.7.3.3	Ventilation test – alternative 2		N/A
	Obtained hydrogen generation rate:		N/A
M.7.3.4	Ventilation test – alternative 3		N/A
	Hydrogen gas concentration (%):		N/A
M.7.4	Marking:		N/A
M.8	Protection against internal ignition from external with aqueous electrolyte	spark sources of batteries	N/A
M.8.1	General		N/A
M.8.2	Test method		N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m ³ /s):		_
M.8.2.3	Correction factors:		_
M.8.2.4	Calculation of distance d (mm):		_
M.9	Preventing electrolyte spillage	1	N/A





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证检测应	IEC 62368-1	古田拉洲 BLab	古田位
Clause	Requirement + Test	Result - Remark	Verdict
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse	Mentioned in user manual.	Р
	Instructional safeguard	.:	Р
N	ELECTROCHEMICAL POTENTIALS		N/A
	Material(s) used	.:	_
0	MEASUREMENT OF CREEPAGE DISTANCES	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	
	Value of X (mm)	.:	_
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	стѕ	N/A
P.1	General	No PS3 circuits	N/A
P.2	Safeguards against entry or consequences of	entry of a foreign object	N/A
P.2.1	General		N/A
P.2.2	Safeguards against entry of a foreign object		N/A
	Location and Dimensions (mm)	.:	_
P.2.3	Safeguards against the consequences of entry of foreign object	а	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 pa	arts	N/A
P.4.1	General		N/A
P.4.2	Tests		N/A
	Conditioning, T _C (°C)	.:	_
	Duration (weeks)		_
Q	CIRCUITS INTENDED FOR INTERCONNECTIO	N WITH BUILDING WIRING	Р
Q.1	Limited power sources		Р
Q.1.1	Requirements		Р





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证验测路	IEC 62368-1	古讯位测 BLab	古田检
Clause	Requirement + Test	Result - Remark	Verdict
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	c) Regulating network limited output		N/A
	d) Overcurrent protective device limited output		Р
	e) IC current limiter complying with G.9		N/A
Q.1.2	Test method and compliance	:	Р
	Current rating of overcurrent protective device (*	Р
Q.2	Test for external circuits – paired conductor cable		N/A
	Maximum output current (A)	:	N/A
	Current limiting method	:	
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General		N/A
R.2	Test setup		N/A
	Overcurrent protective device for test	:	
R.3	Test method		N/A
	Cord/cable used for test	:	
R.4	Compliance		N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIR	RE	Р
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material	:	
	Wall thickness (mm)	:	
	Conditioning (°C)	:	
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material	:	—
	Wall thickness (mm)	:	_
	Conditioning (°C)	:	
S.3	Flammability test for the bottom of a fire enc	losure	N/A
S.3.1	Mounting of samples		N/A





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:识检测股	IEC 62368-1	古讯检测版"	上讯检
Clause	Requirement + Test	Result - Remark	Verdict
S.3.2	Test method and compliance		N/A
	Mounting of samples:		_
	Wall thickness (mm):		_
S.4	Flammability classification of materials	See Table 4.1.2 only.	Р
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C)		_
Т	MECHANICAL STRENGTH TESTS		Р
T.1	General		Р
T.2	Steady force test, 10 N:	(See appended table T.2)	Р
T.3	Steady force test, 30 N:		N/A
T.4	Steady force test, 100 N:	(See appended table T.4)	Р
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:	(See appended table T.7)	Р
T.8	Stress relief test:	(See appended table T.8)	Р
T.9	Glass Impact Test:		N/A
T.10	Glass fragmentation test		N/A
	Number of particles counted		N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm):		N/A
U	MECHANICAL STRENGTH OF CATHODE RAY TU AGAINST THE EFFECTS OF IMPLOSION	BES (CRT) AND PROTECTION	N/A
U.1	General		N/A
	Instructional safeguard:		N/A
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





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EII ME	IEC 62368-1	在记录 Lab	世语植
Clause	Requirement + Test	Result - Remark	Verdict
V.1.2	Surfaces and openings tested with jointed test probes		N/A
V.1.3	Openings tested with straight unjointed test probe	es	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 IN CIRCUITS CONNECTED TO AN AC MAINS (300 V RMS)		N/A
	Clearance	:	N/A
Y	CONSTRUCTION REQUIREMENTS FOR OUTE	DOOR ENCLOSURES	N/A
Y.1	General		N/A
Y.2	Resistance to UV radiation		N/A
Y.3	Resistance to corrosion		N/A
Y.3	Resistance to corrosion		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistan effects of water-borne contaminants by		N/A
Y.3.2	Test apparatus		N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A
Y.3.4	Test procedure	:	N/A
Y.3.5	Compliance		N/A
Y.4	Gaskets		N/A
Y.4.1	General		N/A
Y.4.2	Gasket tests		N/A
Y.4.3	Tensile strength and elongation tests		N/A
	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 en	closure	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





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:话检测路	IEC 62368-1	古话检测技艺 colab	二语性
Clause	Requirement + Test	Result - Remark	Verdict
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
181	立讯检测股份 LCS Testing Lab LCS Testing L	Lab Lab	Lind 测股切 LCS Testing Lab





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二、政检测版	(位)	EC 62368-1	L田检河
Clause	Requirement + Test	Result - Remark	Verdict

5.2	TABLE: Classification	on of electrical er	nergy sou	ergy sources					
Supply Voltage	Location (e.g.	Test conditions		F	Parameters		ES Class		
Vollage	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info 2)			
5Vdc	The EUT is designed to be supplied by 5Vdc external power supply	Normal	5Vdc				ES1		
4.2Vdc	The EUT is designed to be supplied by 4.2Vdc Battery	Normal	4.2Vdc	_ab		区 LCS Testi	ES1		

Supplementary information:

- 1) Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.
- 2) Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.

5.4.1.8	TABLE: Working voltage measurement							
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comm	ents		
THE MIND LE	古 拉语	位测 ^{ba} -ab	- 4	开检测的 Lab		世讯检测		
Supplement	ary information:	169	151	:5 ^{7e5}	1/2	LCSTes		

5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics						
Method	Method: ISO 306 / B50						
Object/ Part	Object/ Part No./Material Manufacturer/trademark Thickness (mm) T softenin					ng (°C)	
Supplementary information:							
(中国) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1							

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics						
Allowed impression diameter (mm) ≤ 2 mm							
Object/Part No./Material Manufacturer/trademark Thickn			Thickness	(mm)	Test temperature (°C)		ession ter (mm)
Supplementary information:							





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V			- 1	1 age 4	1 01 70		Roportiv	io 200/100	00+1200
- 讯检测股内	ap n	24	识检测股	IEC 62	2368-1	一:田检测	是 Lab		上语枪
Clause	Requirem	ent + Test	CS Testins		1/5	Result - F	Remark	N.	Verdict
5.4.2, 5.4.3	3 TABLE: Minimum Clearances/Creepage distance							N/A	
Clearance (creepage di (cr) at/of/be	stance	U _p (V)	U _{rms} (V)	Freq 1) Required cl (Hz) Required (mm) (V) Required cr (mm)					cr (mm)
Supplement	ary informa	ation:			•				
1) Only for f	requency a	above 30 kH	Z						
2) Complete	e Electric S	strength volta	ige (E.S. (V) when	5.4.2.4 appli	ed)			
	田检测股节	ab ab		. : A	检测股份			二四位刊	III HE 173
- J	TIVE STING L			T III	- sting L			This is	ang L

2) Complete Licetife Guerigan		ent No. 173		-call High	13
5.4.4.2 TABLE: Minimum	n distance through insu	lation	VSI 10	S Tes ma	N/A
Distance through insulation (DTI) at/of	Peak voltage (V)	Insulation	Required DTI (mm)	Measure (mr	
Supplementary information:					

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz							
Insulation m	naterial	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)
绘测股外	i i		是代		二绘测股份		- 487
Supplement	ary information:	ST ICS Testi	ng Lau	VS	CS Testing Law		VST CS Tes
100	1						100

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			
Supplementary information:									
X-capacitors	s installed	I for testing:							
☐ bleeding	resistor r	ating:							
□ ICX:									
1) Normal o	perating	condition (e.g., norm	al operation, or open	fuse), SC= shor	t circuit, OC=	pen circuit			





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- 海检测器	划 Lab 和被测度划	C 62368-1	上田位
Clause	Requirement + Test	Result - Remark	Verdict

5.6.6	TABLE: Resistance of	protective condu	ctors and terminati	ons		N/A
Location		Test current (A)	Duration (min)	Voltage drop (V)	Re	sistance (Ω)
Supplemen	tary information:					

5.7.4	TABLE	E: Unearthed acces	ssible parts				N/A			
Location	Operating and		Supply	Parameters			ES			
		fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	class			
Supplementary information:										
Abbreviatio	n: SC= s	short circuit; OC= o	Abbreviation: SC= short circuit; OC= open circuit							

5.7.5	TABLE: Earthed access	ible conductive part			N/A
Supply vo	Itage (V)	MIRE 13		_	
Phase(s)		[] Single Phase; [] Three F			
Power Distribution System: TN TT IT					
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comm	ent
Suppleme	entary Information:			1	

5.8	TABLE:	Backfeed sa	afeguard in battery l	oacked up s	upplies		N/A
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
」立	Him is	_ab	工工工	etiud rap		工证所在	sting Lab
Supplement	tary inforr	nation:	Tos .	-	•	184 Fcs.	
Abbreviation	n: SC= sh	ort circuit, O	C= open circuit				

6.2.2	TABLE: Power source	BLE: Power source circuit classifications							
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class			
Internal circui	t Normal condition			<15W	3s	PS1			





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			IEC 623	68-1				
Clause	Re	equirement + Test	Result - Remark				Verdict	
Lithium Battery		Normal condition	4.2	1.86	7.03	3s	PS1	
Lithium Battery		C4 SC	0	0	0	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.

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

6.2.3.2	TABLE: Determin	nation of resistive PIS			N/A
Location		Operating and fault condition	Dissipate power (W)		ing PIS? es / No
THE TO LE	ary information: n: SC= short circuit	; OC= open circuit	立语控測股份	W.	五 工 T LCS Tes

8.5.5	TABLE: High pre	ABLE: High pressure lamp						
Lamp manu	facturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	bey	ticle found yond 1 m es / No		
Supplement	ary information:							

9.6	TABLE	: Tempera	ture meas	urements	for wireles	s	N/A		
Supply v	oltage (V)			:			7		
Max. transmit power of transmitter (W)				:					_
					receiver and with receiver and at ect contact distance of 2 mm		with receiver and at distance of 5 mm		
Foreig	n objects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Supplem	entary inforr	nation:		•	•	•	•		•





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- : A 检测器	th	C 62368-1	二油位
Clause	Requirement + Test	Result - Remark	Verdict

5.4.1.4, TAI	BLE: Tempe	rature me	asurem	ents				Р
9.3, B.1.5, B.2.6								
Supply voltage (V)		:	5.0Vdc 4.2Vdc			Vdc	
Ambient tempera	ature during	test T_{amb} (°	C):			-	-	—
Maximum measured temperature T of part/at:				T(°C)				Allowed T _{max} (°C)
PCB near U1				39.9	1p	41.1		130
PCB near U2			1/18	38.2 39.5			9.5	130
Internal wire				29.2 29.7			9.7	80
Battery surface				30.6 31.4			1.4	Ref
Plastic enclosure	e inside			28.4		29	9.9	80
Plastic enclosure	e outside			26.5		27	7.2	77
Ambient				25.0		25	5.0	
Temperature T	of winding:	t ₁ (°C)	$R_1 (\Omega)$	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T_{max} (°C)	Insulatio n class

Supplementary information:

Supplementary information:

Note 1: The apparatus was submitted and evaluated for maximum manufacturer's ambient (Tma) of 25°C.

Note 2: The temperatures were measured under the worse case normal mode defined in clause B.2.1.

B.2.5		TABI	TABLE: Input test									
U (V)	H	Ηz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition	on/status		
5.0Vdc	TY	A位测 STest	0.12	0.5	0.61	A检测版份 STesting Lab			Charge empty battery(chargin current:	Battery g		
4.2Vdc			0.15		0.63					ged full working		
Supplem	enta	ary int	formation:	I			ı					

B.3, B.4	TABLE: Abnormal operating and fault condition tests	Р
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- 讯检测股小	ab o		一语检测	IEC	62368-1	一:田检测	S /2	上田位
Clause	Req	uirement + T	est	10	The state of the s	Result - R	emark	Verdict
Ambient ter	mpera	ature T _{amb} (°0	C)			. : See belo	W	_
Power sour	ce for	EUT: Manu	facturer, mod	del/type, o	utputrating.	.:		_
Component	t No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation	า
Charge con	ndition	, with empty						
Battery (B-~P- SC)	讯检 ^T CS Tes	OC	5.0Vdc	7hrs	引检测股份 S Testing Lat	-	Max continuous cha current was 0.12A. I product worked as n No chemicals leak, e molten metal emissi expulsion observed, obvious temperature	The ormal. explosion, on or no
R10		SC	5.0Vdc	10mins			BAT charging currer Unit shut down, reco After test, no damag hazard.	verable.
Discharging	g mod	el, supplied l	by fully batter	y.				
Battery (B-~P- SC)	da ab	ED	4.2Vdc	3hrs57 mins	-	。	Max continuous disc current was 0.15A. I product worked as n No chemicals leak, e molten metal emissi expulsion observed, obvious temperature	The ormal. explosion, on or
Battery		SC	4.2Vdc	10mins	//	I ICE I	Unit cannot be work normally, recoverabl test, no damage, no	e. After
C6		SC	4.2Vdc	10mins			BAT discharging cur 0.01A. Unit shut down, reco After test, no damag hazard.	overable.
Speaker	讯检节	Maximum undistortio n	4.2Vdc	3hrs10 mins	T拉测度份		The product worked normal. No damage hazard. Battery: 38.9°C; Plastic enclosure ou 33.6°C; Ambient: 25.0°C	, no
Speaker	Co 197	SC	4.2Vdc	3hrs30 mins			Unit shut down, reco After test, no damag hazard.	

Supplementary information:

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





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V				9 46 (060541258
识检测股初)	二四位刊	IEC	6236	68-1	_ :7	位河	IRE TO		L:AY
Clause	Requirement	+ Test	(III.3		Ne	Res	sult -	Remark		Verdic
M.3	TABLE: Pr	otection circu	its for bat	terie	s provid	ed w	ithin	the equ	ıipment	Р
Is it possible	to install the	battery in a rev	verse polar	ity po	osition?	:	No			_
					Cł	nargir	ng			
Equipment S	Specification		Voltage (V)					Current (A)	
			5							
					Battery	speci	ification	on		
		Non-recharge	able batter	ies			Rech	nargeabl	e batteries	
		Discharging Unintention			(Charg	ging		Discharging	Reverse
Manufact	turer/type	current (A)	charging current (A		Voltage (V)		Curr	ent (A)	current (A)	charging current (A
ENE	N JINGLIDA RGY LOGY Co., 602030				4.2 0.15		0.15			
Note: The tes	sts of M.3.2 a	re applicable o	nly when al	bove	appropri	ate d	ata is	not ava	ilable.	
Specified ba	ttery tempera	ture (°C)				:	0-45			
Component No.	Fault condition	Charge/ discharge mo	Tes ode time		Temp. (°C)		rent A)	Voltage (V)	e Obse	rvation
Li形检测股份 LCS Testing Lab	Normal	Charge mod	川股沙	6	30.6	- 17	14 (162) S Test	3.7	The produ as normal chemicals explosion, metal emi- expulsion	. No leak, molten ssion or
B-~P-	SC	Charge mod	de 7hrs	5	34.9	0.	15	3.7	The produ as normal chemicals explosion, metal emis	ct worked . No leak, molten ssion or
	Normal	Discharge mo	ode 3hrs52 ins		31.4	0.	15	4.2	The produ as normal chemicals explosion, metal emi- expulsion	leak, molten ssion or
B-~P-	SC	Discharge mo	ode 3hrss mins		35.6	0.	15	4.2	as normal chemicals explosion, metal emi	leak, molten



no explosion; NF= no emission of flame or expulsion of molten metal.

Abbreviation: SC= short circuit; OC= open circuit NL= no chemical leakage; NS= no spillage of liquid; NE=



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二四检测路	加度的	EC 62368-1	二二位第
Clause	Requirement + Test	Result - Remark	Verdict

_
_
_
_
_

Battery manufacturer/type	Operating		Measurement	Observation	
manufacturer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)	
SHENZHEN JINGLIDA ENERGY TECHNOLOGY Co.,	Normal	5Vdc	0	45.0°C	Battery charging current decrease to 0A when battery temp increase to 45.0°C.
LTD/ 602030	Normal	5Vdc	0.01	0°C	Battery charging current decrease to 0.01A when battery temp decrease to 0°C.

Supplementary information:

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

Q.1	TABLE: Circuits inte	TABLE: Circuits intended for interconnection with building wiring (LPS)								
Output Circuit	Condition	U _{oc} (V)	Time (s)	I _{sc}	/A)					
	Condition		Time (3)	Meas.	Limit	Meas.	Limit			
Lithium Battery	Normal condition	4.2	5s	1.01	8	4.24	100			
Lithium Battery	C4 SC	0	5s	0	8	0	100			

Supplementary Information:

Abbreviation: SC= short circuit

T.2, T.3, T.4, T.5	TABLE	E: Steady force test						Р
Part/Location	n	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Obse	rvation





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V 118		. ago .	0 01 70	•	(opon no	200/10000+12	-00
识检测股份	b上语意	IEC 62	2368-1	二语检测器	rap Di	ة ب <u>د</u>	A检
Clause	Requirement + Test	llia	NS.	Result - Re	mark	Ver	dict
Enclosure	Plastic	1.5		100	5	Enclosure remained inta no crack/ ope developed. No chemicals lea explosion, mo metal emission expulsion observed.	ning b k, olten
Internal parts	S 开检测设价 S Testing Lab	Ice	·····································	10	5	Enclosure remained inta no crack/ ope developed. No chemicals lea explosion, mo metal emission expulsion observed.	ning 5 k, olter
Supplement	ary information:						

T.6, T.9	TABLE: Impa	act test				N/A
Location/par	t	Material	Thickness (mm)	Height (mm)	Observation	on
.ar.44						
Supplement	ary informatior	n: 古语控测版 Lab				
LCSTest		LCS Test	1/9/	LCS Test	N.	LCS Tes

T.7	TABLE: Dro	o test				Р
Location/pa	rt	Material	Thickness (mm)	Height (mm)	Observation	on
Enc	losure	Plastic	1.5	1000	Enclosure remain no crack/ ope developed. No cl leak, explosion, metal emission or observed	ening nemicals molten expulsion
Supplement	ary information	n:	-n.#A			-n.4A

BVSATA	TABLE: Stress relief	test	STesting	IX.	SI CS Testing	Р
cation/Part	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observat	ion
nclosure	Plastic	1.5	70	7.0	Enclosure rer intact, no cra opening deve No chemicals explosion, mo metal emission expulsion obs	ck/ eloped. s leak, olten on or
ıpplementa	ry information:				expulsi	on obs





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一识检测版	th tab 言语检测股份	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict		

Х	TABLE: Alternative method for determining minimum clearances distances			N/A	
Clearance d between:	listanced	Peak of working voltage (V)	Required cl (mm)	Measure (mm)	
Supplement	ary information:				

LCS Testing Lab

TEL TH检测股份 Lob Los Testing Lab

Tin 拉河股份 LCS Tosting Lab



















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一识检测形	[17] Lab 二混检测股份	EC 62368-1	上讯检测
Clause	Requirement + Test	Result - Remark	Verdict

4.1.2	TAE	BLE: Critical comp	onents informati	on			Р
Object / par	t No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mar conf	k(s) of formity ¹⁾
Plastic enclosure		CHI MEI CORPORATION	PB-1201	V-0, 80°C, min. thickness:1.5mm	UL94,UL 746	UL E17	1666
PCB		Interchangeable	Interchangeable	V-0,130°C	UL 796	UL	
Internal wire		Interchangeable	Interchangeable	26AWG, 80°C, VW-1, 300V	UL 758	UL	则股份
Speaker	S Tes	Interchangeable	Interchangeable	3Ω3W	IEC /EN 62368- 1		ted with liance
Lithium ion Battery		SHENZHEN JINGLIDA ENERGY TECHNOLOGY Co., LTD	602030	3.7Vdc, 300mAh	EN 62133- 2:2017, EN 62133- 2:2017/AMD1:2 021		ort No.: 「2401007 I-1
LED		Taiwan Semiconductor Lighting Co, Ltd.	3535-IR	DC 700Ma	IEC 62471:2006	Tes No.:	by SGS, t Report OC- 6-90007

Supplementary information:



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



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Attachment No.1

ATTACHMENT TO TEST REPORT

IEC 62368-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

Differences according to: EN IEC 62368-1:2020+A11:2020

Attachment Form No. EU_GD_IEC62368_1E

Attachment Originator: UL(Demko)

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

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	CENELEC COMMON MODIFICATIONS (EN)	Р
	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.	Р
	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".	
	Add the following annexes:	Р
	Annex ZA (normative) Normative references to international publications with their corresponding European publications	- 1A T
	Annex ZB (normative) Special national conditions	立语和
	Annex ZC (informative) A-deviations	Los
	Annex ZD (informative) IEC and CENELEC code designations for flexible cords	
1	Modification to Clause 3.	N/A
3.3.19	Sound exposure	N/A
	Replace 3.3.19 of IEC 62368-1 with the following definitions:	

3.3.19.1	momentary exposure level, MEL		N/A
151	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.	TET LCS Testin	及份 g Lab
	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.		





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	Page 52 of 75 Attachment No.1	Report No.: LCSA0608	54125S
3.3.19.3	sound exposure, E	LCS Testing	N/A
	A-weighted sound pressure (<i>p</i>) squared and integrated over a stated period of time, <i>T</i>		IV/A
	Note 1 to entry: The SI unit is Pa^2 s.		
	$E = \int_{0}^{\infty} p(t)^{2} dt$		
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.	LCS Tosti	g Lab
	Note 1 to entry: <i>SEL</i> is measured as A-weighted levels in dB.		
	$SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$		
	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
立语检测胜力 LCS Testing Lah	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	LCS Testing Lab	立语检测的 LCS Testing
	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.		
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources	- 五检测	N/A
MST IC	Replace 10.6 of IEC 62368-1 with the following:	NST LCS Testil	9 -
10.6.1.1	Introduction Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that:		N/A
	– is designed to allow the user to listen to audio or	48	-73



Shenzhen LCS Compliance Testing Laboratory Ltd.

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Scan code to check authenticity



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Attachment No.1

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

within a few years it will no longer exist. This exemption will not be extended to other technologies.





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CP 1	 a player while connected to an external amplifier that does not allow the user to walk around while in use. 	Tees.	Cen .
	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.		
0.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	~ 檢測	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 Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn to EN 50360 and EN 50566.	LCS Testing	
0.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
0.6.2.1	General	. 人們股份	N/A
	Ting Lab	Ting Lab	世讯检测ng
	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.	rce 102	Cester
	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 Tosti	支份 J Lab
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term LAeq, T) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit.		
	For example, if the player is set with the	. 05	
	programme simulation noise to 85 dB, but the		



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Little Lab	Attachment No.1		
Fee.	average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85	Too.	
10.6.2.2	dB. RS1 limits (to be superseded, see 10.6.3.2)	N/A	
LOS LOS	RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	工 证 形 检测 反 的 Los Testing Lab	
- az (A)	- The RS1 limits will be updated for all devices as per 10.6.3.2.	- 073 (f)	
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	N/A	i illi
LCS 10-	RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized 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 Testing Lab	
10.6.2.4	RS3 limits	N/A	
	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.		
		<u> </u>	
10.6.3	Classification of devices (new)		





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Ling Lesting Lan	Attachment No.1	TOS Testing Lo	estir
	negative and false positive PMP sound level warnings. New limits, compliant with The	124	
	Commission Decision of 23 June 2009, are given		
	below.		
10.6.3.2	RS1 limits (new)	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. — 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)	工证报检测原份 LCS Testing Lab	
	interface) when playing the fixed "programme simulation noise" described in EN 50332-1.		
10.6.3.3	RS2 limits (new)	N/A	
T讯检测股份 LCS Testing Lab	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.	工研检测股份 Los Testing Lab Los T Los T Los T Los T Los Testing Lab	est i
10.6.4	Requirements for maximum sound exposure	N/A	
10.6.4.1	Measurement methods	N/A	
	All volume controls shall be turned to maximum during tests.		
	Measurements shall be made in accordance with		
	EN 50332-1 or EN 50332-2 as applicable.		J





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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 **safeguard.**

Between RS2 and an **ordinary person**, the **basic safeguard** may be replaced by an **instructional safeguard** in accordance with Clause F.5, except that the **instructional safeguard** shall be placed on the equipment, or on the packaging, or in the instruction manual.

Alternatively, the **instructional safeguard** may be given through the equipment display during use.

The elements of the **instructional safeguard** shall be as follows:

 element 1a: the symbol 4 (2011-01)



, IEC 60417-6044

element 2: "High sound pressure" or equivalent wording

– element 3: "Hearing damage risk" or equivalent wording

 – element 4: "Do not listen at high volume levels for long periods." or equivalent wording

An **equipment safeguard** shall prevent exposure of an **ordinary person** to an RS2 source without intentional physical action from the **ordinary person** and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off.

The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.

NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.

NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off.

A **skilled person** shall not be unintentionally exposed to RS3.





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10.6.5	Requirements for dose-based systems	res .	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. The manufacturer may offer optional settings to		
	allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical	四 绘 測	
	capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration.	LCS Testi	
	The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and		
	how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car	an Pi	
· 语检测版》	races, etc.	· A 拉测胶 / ab	一班拉河
10.6.5.2	Dose-based warning and requirements	LCS Testing	N/A
	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 listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.		
10.6.5.3	Exposure-based requirements		N/A
	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.	TST LCS Testi	
	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.		
	THE AS	- RE 45	



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EN 50332-3, using the equipment provided as listening device), the leshall be 100 dB or low with a standardized collevel integrated over 18	limits from this clause. For a package (player with its evel integrated over 180 ser. For equipment provided nector, the unweighted 30 s shall be no more than e interface and no more gital interface.	
NOTE In case the sour	ce is known not to be music may be disabled.	

10.6.6	Requirements for listening devices (headphones	s, earphones, etc.)	N/A
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.		N/A
	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	工讯位测股功 CS Tosting Lab	
10.6.6.2	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 <i>L</i> Aeq, <i>T</i> acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.		N/A
10.6.6.3	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 LAeq, T acoustic	上CS TOST	N/A



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		istening devical of -10 dBFS.		100 dB with	,0-		The state of the s
10.6.6.4	Measuremen	t method	1				N/A
	Measurement EN 50332-2 a	ts shall be mad as applicable.	de in accord	lance with			
3	Modification	to the whole	document				Р
	Delete all the list:	"country" note	es in the refe	erence docume	ent according	to the following	g P
	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	- 113
	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	III BZ 173
	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	
	5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	
	Table 13						
	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	
	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	LCS Testi
	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
	Y.4.5	Note					
4	Modification	to Clause 1					Р
1	Add the follow	wing note:					Р
	electrical and	e use of certain electronic equ : see Directive	iipment is re	estricted			测设份





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5	Modification to 4.Z1		N/A
4.Z1	Add the following new subclause after 4.9:		N/A
	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):		
TE IC	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	LCS Testi	设化 IS Lab
	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 type B		
	or permanently connected 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.		
立讯检测股份 LCS Testing Lal	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 of the wall socket outlet.	工讯检测股份 LCS Testing Lab	立讯检测 LCS Test
6	Modification to 5.4.2.3.2.4		N/A
5.4.2.3.2.4	Add the following to the end of this subclause:		N/A
	The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.		
7	Modification to 10.2.1		N/A
10.2.1	Add the following to c) and d) in table 39:	line .	N/A
	For additional requirements, see 10.5.1.		Lab

8 Modification to 10.5.1	N/A
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I Williams Lab	Attachment No.1	立语检测 Resting Lab	
10.5.1	Add the following after the first paragraph:	ICE 10	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.		
TEL TE	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	LCS Testi	
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.		
·····································	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.		
立语检测版 Lab	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	Ling Lab	
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.		
9	Modification to G.7.1		N/A
G.7.1	Add the following note:		N/A
	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.		





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10	Modification to Bibliography	N/A
	Add the following notes for the standards indicated:	N/A
TEG III	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 61643-1 NOTE Harmonized as EN 61568-2-8. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-311 NOTE Harmonized as EN 61643-311. IEC 61643-321 NOTE Harmonized as EN 61643-321. IEC 61643-331 NOTE Harmonized as EN 61643-331.	测设份 Stir g Lab
11	ADDITION OF ANNEXES	
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	
4.1.15	Denmark, Finland, Norway and Sweden	N/A
Till have Les Testing Les Test	To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples jordet stikkontakt" In Sweden: "Apparaten skall anslutas till jordat uttag"	文计 LCS Testi





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4.7.3	United Kingdom	18	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		
5.2.2.2	see Annex G.4.2 of this annex Denmark		N/A
<u>_</u>	After the 2nd paragraph add the following:		IN/A
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	立语检测 Testi	设价 g Lab
5.4.11.1	Finland and Sweden	13/1 (CS)	N/A
and			1 11/7
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	1990年	, -m/ F
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	CS Testing Lab	立语位测 LCS Testin
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition		
	 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), 	LCS Testi	g Lab
	and		
	 is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV. 		
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		
	A capacitor classified Y3 according to EN 60384-		





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Till Testing Lab	Attachment No.1		
-Cep , .	14:2005, may bridge this insulation under the following conditions:	log .	1,05
	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;		
	the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	- 10 To - 10 T	20份
	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the	TET LCS TOSTIS	gLab
5.5.2.1	sequence of tests as described in EN 60384-14. Norway		N/A
5.5.2.1			IN/A
	After the 3rd paragraph the following is added:		
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line		
	voltage (230 V). Finland, Norway and Sweden		N1/A
5.5.6	i iliana, Norway and Sweden		N/A
	To the end of the subclause the following is added:		
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	· 诺检测股份 CS Testing Lab	立讯检测段 LCS Testing
5.6.1	Denmark		N/A
	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:		
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	古讯检测	及(f) a Lab
5.6.4.2.1	Ireland and United Kingdom	15 LCS Testi	N/A
	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.		





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5.6.4.2.1	France		N/A
	After the indent for pluggable equipment type A	Α,	
	the following is added:		
	 in certain cases, the protective current rating 		
	the circuit supplied from the mains is taken as 20 instead of 16 A.	0 A	
5.6.5.1	To the second paragraph the following is added:		N/A
	The range of conductor sizes of flexible cords to	be	
	accepted by terminals for equipment with a rated		
	current over 10 A and up to and including 13 A is	::	
	1,25 mm ² to 1,5 mm ² in cross-sectional area.	lin: a.	是们
5.6.8	Norway	US Testin	N/A
	To the end of the subclause the following is adde		
	Equipment connected with an earthed mains plug		
	classified as class I equipment. See the Norway		
	marking requirement in 4.1.15. The symbol IEC		
	60417-6092, as specified in F.3.6.2, is accepted.		
5.7.6	Denmark		N/A
	To the end of the subclause the following is adde	ed:	
	The installation instruction shall be affixed to the		
	equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		

5.7.6.2	Denmark 155 Testillaria	LCS Testins	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
拉拉	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.	Ti形位测 LCS Testi	
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.		
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:		
	"Apparatus connected to the protective earthing of	113	





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the building installation through the mains connection or through other apparatus with a connection to protective earthing and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)" NOTE In Norway, due to regulation for CATVinstallations, 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. Translation to Norwegian (the Swedish text will also be accepted in Norway): "Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet." Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medfőra risk főr brand. Főr att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.". United Kingdom 8.5.4.2.3 N/A Add the following after the 2nd dash bullet in 3rd paragraph: 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.



Scan code to check authenticity



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CS Testing	1166 cs 105 1166 cs	Testins US CS Testin
3.3.1 and	Ireland and United Kingdom	N/A
B.4	The following is applicable:	
	To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes	

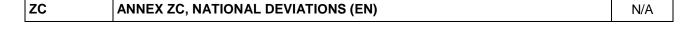
Denmark	N/A
Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. CLASS I EQUIPMENT provided with socket-outle with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with 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	ts t t t t cs Testing Lab ccs Testing
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 shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a <i>Justification:</i>	LCS Testi la Lab
	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. CLASS I EQUIPMENT provided with socket-outle with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with 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 shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a





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CS Testing La	Attachment No	1.1 I Washing Land	LOST
3.4.2	United Kingdom	12	N/A
	To the end of the subclause the following is ac	dded:	
	The plug part of direct plug-in equipment shall 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, e that the test of 12.17 is performed at not less t 125 °C. Where the metal earth pin is replaced an Insulated Shutter Opening Device (ISOD), requirements of clauses 22.2 and 23 also app	xcept han by the	
9.7.1	United Kingdom	LX.	N/A
15 工资	To the first paragraph the following is added:	Lab	ing Lab
	Equipment which is fitted with a flexible cable cord and is designed to be connected to a ma socket conforming to BS 1363 by means of the flexible cable or cord shall be fitted with a 'star plug' in accordance with the Plugs and Socket (Safety) Regulations 1994, Statutory Instrume 1994 No. 1768, unless exempted by those regulations.	ins at ndard s etc.	
冷测股份	NOTE "Standard plug" is defined in SI 1768:19 and essentially means an approved plug conforming to BS 1363 or an approved converplug.		
3.7.1 Single	Ireland Transing Lab	Little Lasting Lab	N/A
C2 ,	To the first paragraph the following is added:	Mag res	rcs ,
	Apparatus which is fitted with a flexible cable of cord shall be provided with a plug in accordant with Statutory Instrument 525: 1997, "13 A Plug and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member Standard is equivalent to the relevant Irish Standard	ce gs State	
G.7.2	Ireland and United Kingdom		N/A
	To the first paragraph the following is added:	份	证份
TE ILES	A power supply cord with a conductor of 1,25 is allowed for equipment which is rated over 1 and up to and including 13 A.		ina _{Fap}







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0.5.2	Germany	N/A N/A
	The following requirement applies:	
	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.	
	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	工活检测设份 LCS Testing Lab
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	



















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ZD	IEC and CENELEC CODE DESIGNATIONS F	OR FLEXIBLE C	ORDS (EN)	N/A
	Type of flexible cord	Code designations		N/A
		IEC	CENELEC	
	PVC insulated cords			
	Flat twin tinsel cord	60227 IEC 41	H03VH-Y	
	Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	股份
AST ICE	Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	ng Lab
	Rubber insulated cords			
	Braided cord	60245 IEC 51	H03RT-F	
	Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	
	Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	
	Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
	Cords having high flexibility	•	·	
	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	10
	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H	立语和
	Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	
	Cords insulated and sheathed with halogen- free thermoplastic compounds			
	Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F	
	Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F	



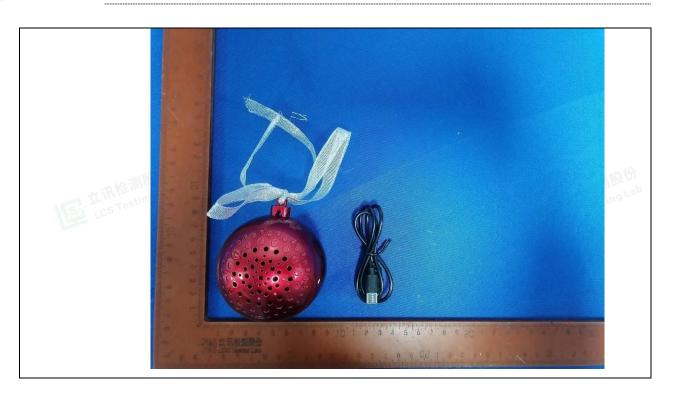


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Details of: External view



Details of: External view





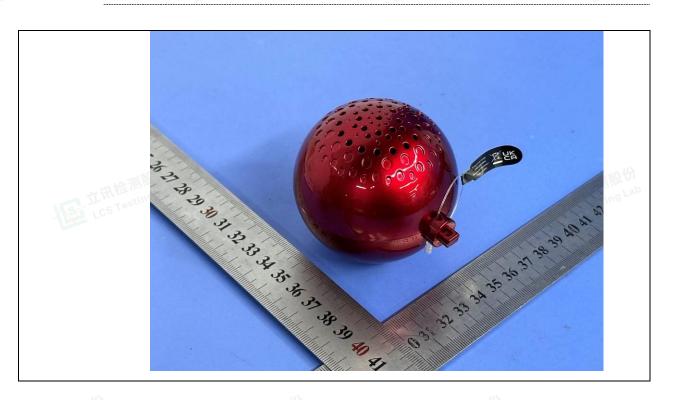


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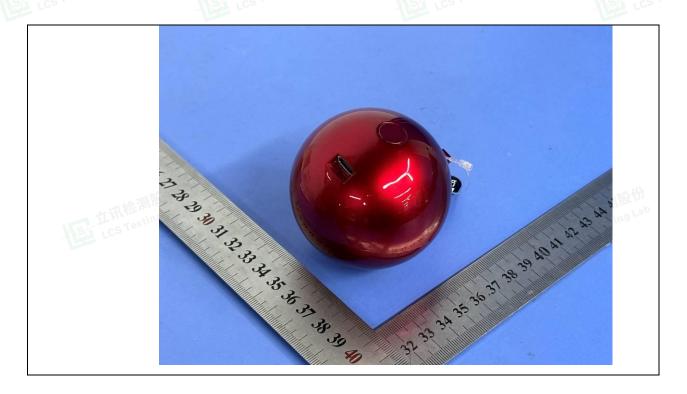
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Details of: External view



Details of: External view





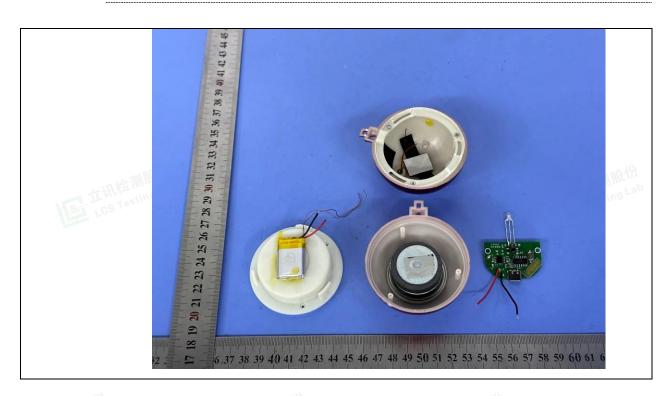


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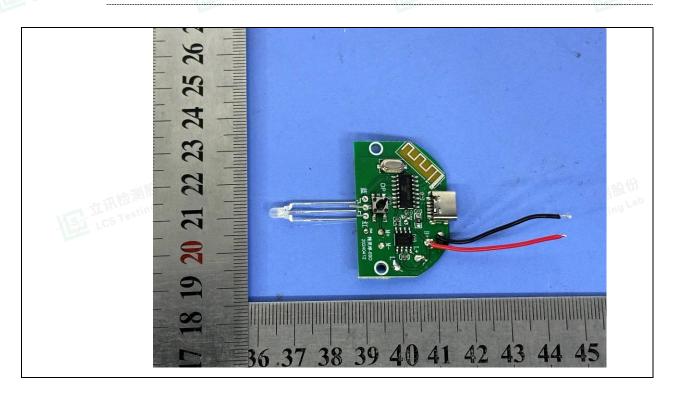
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Details of: Internal view



PCB view Details of:



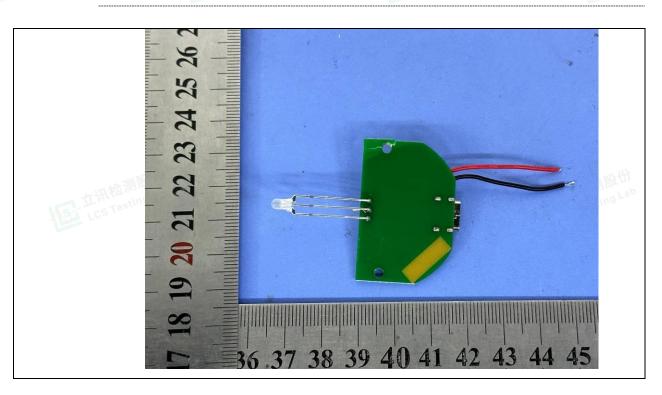




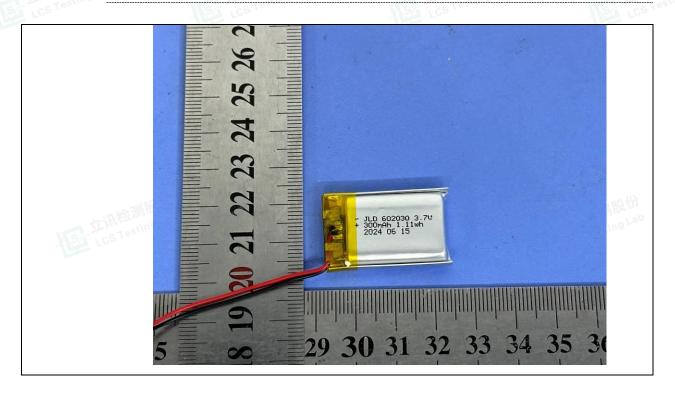
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PCB view Details of:



Details of: Battery view



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

