



## TEST REPORT EN 62368-1

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

Report Number....: LCSA07194067S

**Date of issue** .....: 2024-08-02

Total number of pages .....: 77

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

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

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

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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Test item description ...... Table light wireless charger

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

Manufacturer...... Same as the Applicant

Model/Type reference .....: MO6349

**Ratings** .....: | Input: 5V===2A, 9V===2A

Wireless output: 5W, 10W

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

$\boxtimes$	Testing Laboratory:	Shenzhen LCS Complia	ance Testing Laboratory Ltd.
Testing location/ address:		Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China	
Pre	pared by:	David Ma Project Handler	David Ma
Che	ecked by:	Benson Kuai Reviewer	Benson Know
App	proved by	Hart Qiu Technical Director	Hur Vi









ent):	
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List of Attachments (including a total number of p	ages 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	C, Juji Industrial Park, Yabianxueziwei, Shajing
立洲 <sup>拉</sup> Assing Lab	China
Summary of compliance with National Differences	(List of countries addressed):
List of countries addressed: National Differences No. 1.	and Group Differences as refer to Attachment
$oxed{\boxtimes}$ The product fulfils the requirements of <u>EN IEC</u>	62368-1:2020+A11:2020
Use of uncertainty of measurement for decisions	on conformity (decision rule) :
applicable limit according to the specification in tha	t standard. The decisions on conformity are made
All and the second of the seco	
Other: (to be specified, for example when require accreditation requirements apply)	reformed (name of test and test clause):  al safety:  EC 62368-1:2020+A11:2020  Testing location:  Shenzhen LCS Compliance Testing Laboratory Ltd.  Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China  Try of compliance with National Differences (List of countries addressed):  Countries addressed: National Differences and Group Differences as refer to Attachment  Product fulfils the requirements of EN IEC 62368-1:2020+A11:2020  Uncertainty of measurement for decisions on conformity (decision rule):  Decision rule is specified by the IEC standard, when comparing the measurement result with the ole limit according to the specification in that standard. The decisions on conformity are made applying the measurement uncertainty ("simple acceptance" decision rule, previously known as comparing the measurement are calculated by the standard or client, or if national ation requirements apply)  Intion on uncertainty of measurement:  Description of measurement are calculated by the laboratory based on application of criteria given sold for test equipment and application of test methods, decision sheets and operational res of IECEE.  Dide 115 provides guidance on the application of measurement uncertainty principles and applying ision rule when reporting test results within IECEE scheme, noting that the reporting of the general uncertainty for measurements is not necessary unless required by the test standard or each of the standard or the provides guidance on the specification of measurement uncertainty for measurements is not necessary unless required by the test standard or each of the specification of the standard or each of the specification of the standard or element uncertainty for measurements is not necessary unless required by the test standard or each of the specification
Information on uncertainty of measurement:	
The uncertainties of measurement are calculated by	
the decision rule when reporting test results within measurement uncertainty for measurements is not	n IECEE scheme, noting that the reporting of the
customer. Calculations leading to the reported values are on file	with the NCB and testing laboratory that conducted



the testing.





### Copy of marking plate:

The artwork below may be only a draft.

Table light wireless charger

Model: MO6349

Input: 5V===2A, 9V===2A Wireless output: 5W, 10W





Mid Ocean Brands B.V.

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

Kowloon, HongKong.

Made in China

#### Note:

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

2. The model no. on above marking plate may be replaced by other ones listed in the report.







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Product group	Test item particulars:	184 10		169 100
Skilled person   Skilled person   Skilled person   Children likely to be present   Children	Product group	□ end product	built-in compone	ent
Skilled person    Children likely to be present	Classification of use by:	⊠Ordinary person	ı	
Children likely to be present   Children likely to be presen		⊠Instructed perso	n	
AC mains		⊠Skilled person		
Not mains connected:   SEST   ESS   ESS     Supply tolerance		⊠Children likely to	o be present	
Supply tolerance   Supply tolerance   +10%/-10%   +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   permanent connection   mating connector   Other: Not directly connected to the mains   Nother mating connector   Stationary   for building-in   wall/ceiling-mounted   SRME/rack-mounted   other:   Overvoltage category (OVC)   OVC   OV	Supply connection:	_	<del></del>	ains
Supply tolerance       +10%/-10%   +20%/-15%   + %/ - %   None       None				
+20%/-15%   + %/ - %   None   None   Power systems   None   + 20%/-15%   + %/ - %   None   None   Power systems   None   None   None   Power systems   None   Non	Supply tolorance	- WILL DICK IN-	☐ ES2 ☐ ES3	
Supply connection – type   None   None   Diggable equipment type A -	Supply tolerance	1 <del>31</del> '		
Supply connection – type		L <del>o_</del>	%	
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 IIII   OVC IIII   OVC IIII   OVC IIII   OVC IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				
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   M/A   Equipment mobility   Milest plug-in   stationary   for building-in wall/ceilling-mounted   SRME/rack-mounted   other:   OVC II   OVC II   OVC III   OVC III   OVC III   OVC III   OVC III   OVC III   OVC IIV   other: Supplied by Max. DC 9V   Class of equipment   M/A   restricted access area   outdoor location   PD 1   PD 2   PD 3   PD 3   Manufacturer's specified T <sub>ma</sub>   25 °C   Outdoor: minimum   °C   Protection class     IV   IV   IV   IV   IV   IV   IV	Supply connection – type:	pluggable equip	pment type A -	
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    Equipment mobility				ord
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 II   OVC III   OVC I			•	
non-detachable supply cord   appliance coupler   permanent connection   mating connector   dother: Not directly connected to the mains   A;   Location:   building   equipment   N/A   Equipment mobility   Manual   Man				
appliance coupler   permanent connection   mating connector   other: Not directly connected to the mains   A;   Location:   building   equipment   M/A    Equipment mobility		· · · · · ·		ord
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 II   OV				ла
mating connector   other: Not directly connected to the mains   A;   Location:   building   equipment   N/A			•	
the mains  Considered current rating of protective device		•		ectly connected to
Location:   building   equipment   N/A				立讯检
Equipment mobility			S <sup>Tess</sup>	LCS TO
Equipment mobility : Movable   hand-held   transportable   direct plug-in   stationary   for building-in   wall/ceiling-mounted   SRME/rack-mounted   other:  Overvoltage category (OVC) : OVC   O	device:		■ building	□ equipment
direct plug-in	Equipment mobility :		☐ hand-held	☐ transportable
Wall/ceiling-mounted SRME/rack-mounted   Overvoltage category (OVC) : OVC I OVC II OVC III   OVC IV Other: Supplied by Max. DC 9V   Class of equipment : Class I Class II Class III   Not classified restricted access area outdoor location   Pollution degree (PD) : PD 1 PD 2 PD 3    Manufacturer's specified T <sub>ma</sub> : 25 °C Outdoor: minimum °C   IP protection class : IPX0 IP   Power systems : TN TT 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	Equipment mobility	=		
Overvoltage category (OVC)       : OVC I       OVC II       OVC III         OVC IV       other: Supplied by Max. DC 9V         Class of equipment       : Class I       Class III         Not classified       Special installation location       : N/A       restricted access area         outdoor location       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 LL         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 :: Class I Class II Class III  Not classified :: N/A restricted access area  outdoor location :: PD 1 PD 2 PD 3  Manufacturer's specified T <sub>ma</sub> 25 °C Outdoor: minimum °C  IP protection class :: IPX0 IP  Power systems :: TN TT IT IT V_LL  not AC mains  Altitude during operation (m) :: 500 m or less m  OVC IV other: Supplied by Max. DC 9V  Class II Class III  Not classified outdoor location PD 2  PD 3  PD 2 PD 3  PD 3  Altitude during operation (m) :: 500 m or less m		other:		
Class of equipment :: Class I Class II Class III  Not classified restricted access area outdoor location  Pollution degree (PD) :: PD 1 PD 2 PD 3  Manufacturer's specified T <sub>ma</sub> :: 25 °C Outdoor: minimum °C  IP protection class :: IPX0 IP  Power systems :: TN TT IT IT V <sub>L-L</sub> not AC mains  Altitude during operation (m) :: 2000 m or less m  Altitude of test laboratory (m) :: 500 m or less m	Overvoltage category (OVC):	_		
Special installation location				
Special installation location :  N/A	Class of equipment:		☐ Class II	⊠ Class III
Pollution degree (PD)	Special installation location	_ 11>	☐ restricted access	es area
Pollution degree (PD) : □ PD 1 □ PD 2 □ PD 3   Manufacturer's specified T <sub>ma</sub> : 25 °C □ Outdoor: minimum °C   IP protection class : □ IPX0 □ IP   Power systems : □ TN □ TT □ 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	100 PG		is area
IP protection class:   IPX0   IP  Power systems:   TN   TT   IT - V   L-L	Pollution degree (PD):	7 62		☐ PD 3
Power systems: TN TT TT TT VL-L  in not AC mains  Altitude during operation (m): 2000 m or less m  Altitude of test laboratory (m): 500 m or less m	Manufacturer's specified T <sub>ma</sub> :	25 °C	r: minimum	°C
	IP protection class:	⊠ IPX0	☐ IP	
	Power systems:	□ TN □ TT	☐ IT - V <sub>1-1</sub>	
Altitude of test laboratory (m):  500 m or less  m	•	= -		
	Altitude during operation (m)::	≥ 2000 m or less	☐ m	
Mass of equipment (kg): Approx. 0.530kg	Altitude of test laboratory (m):	$\boxtimes$ 500 m or less	☐ m	
	Mass of equipment (kg):	Approx. 0.530kg		



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Possible test case verdicts:				
- test case does not apply to the test object:	N/A			
- test object does meet the requirement:	P (Pass)			
- test object does not meet the requirement:	F (Fail)			
Testing:				
Date of receipt of test item:	2024-07-23			
Date (s) of performance of tests:	From 2024-07-23 to 2024-08-02			
General remarks:	(A) 测股份			
	is used as the decimal separator. roduct name, model, trademark and other information and this laboratory is not responsible for verifying its not the scope of CNAS recognition.			
includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided				
When differences exist; they shall be identified	in the General product information section.			
Name and address of factory (ies):	Same as the Manufacturer			
General product information and other remark				









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**OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS** Clause **Possible Hazard** 5 Electrically-caused injury Safeguards Class and Energy Source **Body Part** (e.g. ES3: Primary circuit) (e.g. Ordinary) В S R N/A N/A ES1: All circuits (9Vdc) N/A Ordinary Electrically-caused fire Safeguards Class and Energy Source Material part (e.g. PS2: 100 Watt circuit) (e.g. Printed board) 1<sup>st</sup> S 2<sup>nd</sup> S В V-0 PS2: <100 Watt circuit (Internal **PCB** Equipment N/A circuit) safeguards (no ignition) Equipment PS2: <100 Watt circuit (Internal Combustible materials V-1 or better N/A circuit) within equipment safeguards (no ignition) Injury caused by hazardous substances Safeguards Class and Energy Source **Body Part** (e.g., Skilled) (e.g. Ozone) В S R N/A N/A N/A N/A N/A Mechanically-caused injury Safeguards Class and Energy Source **Body Part** (e.g. Ordinary) (e.g. MS3: Plastic fan blades) В S R N/A MS1: Edges and corners N/A N/A Ordinary MS1: less than 7kg Mass of the unit N/A N/A N/A 9 Thermal burn Safeguards Class and Energy Source **Body Part** (e.g. TS1: Keyboard caps) (e.g., Ordinary) В S R N/A N/A TS1: Enclosure N/A Ordinary 10 Radiation Safeguards Class and Energy Source **Body Part** (e.g. RS1: PMP sound output) (e.g., Ordinary) В S R N/A N/A N/A Ordinary RS1: LED light Supplementary Information: "B" - Basic Safeguard; "S" - Supplementary Safeguard; "R" - Reinforced Safeguard



Shenzhen LCS Compliance Testing Laboratory Ltd.

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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

立洲檢測版 LCS Testing Lab 上CS Testing Lab

上CS Testing Lab

Report No.: LCSA07194067S

区 ICS Testing Lab

NST LCS Testing Lab

上CS Testing Lab











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一话检测时	n ab 计讯位测度的	EC 62368-1	一台讯检》
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)		N/A
4.1.5	Constructions and components not specifically covered	- 115 (f)	N/A
4.1.8	Liquids and liquid filled components (LFC)	工讯位 [Ang Lab	N/A
4.1.15	Markings and instructions	(See Annex F)	P
4.4.3	Safeguard robustness		N/A
4.4.3.1	General		N/A
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	m thi	N/A
MS	Glass impact test (1J)	VST ICS Test	N/A
	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness		N/A
4.4.4	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks		N/A
4.5	Explosion		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdict
4.5.1	General		N/A
4.5.2	No explosion during normal/abnormal operating condition		N/A
	No harm by explosion during single fault conditions		N/A
4.6	Fixing of conductors		N/A
	Fix conductors not to defeat a safeguard		N/A
	Compliance is checked by test		N/A
4.7	Equipment for direct insertion into mains socker	t-outlets	N/A
4.7.2	Mains plug part complies with relevant standard:	No such apparatus	N/A
4.7.3	Torque (Nm)	100	N/A
4.8	Equipment containing coin/button cell batteries	•	N/A
4.8.1	General		N/A
4.8.2	Instructional safeguard:		N/A
4.8.3	Battery compartment door/cover construction		N/A
	Open torque test		N/A
4.8.4.2	Stress relief test		N/A
4.8.4.3	Battery replacement test	ar 4A	N/A
4.8.4.4	Drop test	古河拉河 Rab	N/A
4.8.4.5	Impact test	LCS Testing	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	ictive object	N/A
4.10	Component requirements		N/A
4.10.1	Disconnect Device		N/A
4.10.2	Switches and relays		N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	assification 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
5.2.2.4	Single pulse limits	No such single pulses generated in the EUT or applied to it.	N/A



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Clause	Doguiroment L Test CS Test	Docult Domort	\/o=d:c+
Clause	Requirement + Test	Result - Remark	Verdict
5.2.2.5	Limits for repetitive pulses:	No such repetitive pulses within the EUT	N/A
5.2.2.6	Ringing signals	No such ringing signals within the EUT	N/A
5.2.2.7	Audio signals		N/A
5.3	Protection against electrical energy sources		N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	Only ES1 circuits within the equipment.	N/A
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	_::A检测	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	LCS Test	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)		N/A
5.3.2.2 b)	Air gap – distance (mm)		N/A
5.3.2.3	Compliance	7. 地形形	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
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



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LYN Testing L	IEC 62368-1	TIME TANDE	世洲型
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
	Clearances in circuits connected to AC Mains, Alternative method		N/A
5.4.2.2	Procedure 1 for determining clearance	<b>大评位</b> 测	N/A
Wal r	Temporary overvoltage	151 LCS TES	_
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:	. mr. 444	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	世讯位测 Lab	N/A
CS Test		LCS Test	I LCS T
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	0 1	Illa&IIIb	_
5.4.3.4	Creepage distances measurement		N/A
5.4.4	Solid insulation		N/A
5.4.4.1	General requirements		N/A
5.4.4.2	Minimum distance through insulation	-71	N/A
5.4.4.3	Insulating compound forming solid insulation	Till Tost	N/A
5.4.4.4	Solid insulation in semiconductor devices	192	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
5.4.4.6.3	Non-separable thin sheet material	No such insulation used within the EUT	N/A



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Clause	IEC 62368-1	Booult Bornout	Manelie (
Clause	Requirement + Test	Result - Remark	Verdict
	Number of layers (pcs):		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material		N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, $E_P$ , $K_R$ , $d$ , $V_{PW}$ (V)		N/A
· ·	Alternative by electric strength test, tested voltage (V), $K_R$	上海检测	N/A
5.4.5	Antenna terminal insulation	LCS Test	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		N/A
5.4.8	Humidity conditioning	工语和 Lab	N/A
Ce ,	Relative humidity (%), temperature (°C), duration (h):	Tog The	_
5.4.9	Electric strength test		N/A
5.4.9.1	Test procedure for type test of solid insulation:		N/A
5.4.9.2	Test procedure for routine test		N/A
5.4.10	Safeguards against transient voltages from external circuits		N/A
5.4.10.1	Parts and circuits separated from external circuits		N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General	古语检测	N/A
☆ 5.4.10.2.2	Impulse test:	13T LCS TOS	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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Clause	Requirement + Test	Result - Remark	Verdict	
5.4.11.1	Exceptions to separation between external circuits and earth	No such connections to external circuit as above.	N/A	
5.4.11.2	Requirements		N/A	
	SPDs bridge separation between external circuit and earth		N/A	
	Rated operating voltage U <sub>op</sub> (V):		_	
	Nominal voltage U <sub>peak</sub> (V):		_	
	Max increase due to variation $\Delta U_{sp}$ :	- 41	_	
1	Max increase due to ageing $\Delta U_{sa}$ :	立洲位为	_	
5.4.11.3	Test method and compliance:	Tos , c	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	上: 其於測段73	N/A	
5.5.2.1	General requirement	LCS Testing	N/A	
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:		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	TIME TO TEST	N/A	
1	RCD rated residual operating current (mA):	1	_	
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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Lywing L	IEC 62368-1	TL Programs	1100.78
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
一一立	Protective bonding conductor size (mm²):	立讯检测	_
5.6.4.2	Protective current rating (A):	Top res	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	an Hà	N/A
5.6.6.2	Test Method:	方讯检测版 Lab	N/A
5.6.6.3	Resistance ( $\Omega$ ) or voltage drop:	LCSTest	N/A
5.6.7	Reliable connection of a protective earthing conductor		N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm²):		N/A
	Class II with functional earthing marking:		N/A
	Appliance inlet cl & cr (mm):		N/A
5.7	Prospective touch voltage, touch current and pro	otective conductor current	N/A
5.7.2	Measuring devices and networks		N/A
5.7.2.1	Measurement of touch current	女讯检测	N/A
5.7.2.2	Measurement of voltage	LCS 1	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):	二油检测	N/A
1/5/1	b) Equipment connected to unearthed external circuits, current (mA):	LCS Test	N/A
5.8	Backfeed safeguard in battery backed up supplie	es	N/A
	Mains terminal ES:		N/A
	Air gap (mm):		N/A

ELECTRICALLY- CAUSED FIRE		Р
Classification of PS and PIS		Р
Power source circuit classifications	(See appended table 6.2.2)	Р
Classification of potential ignition sources	古讯检测版(In	· RM
Arcing PIS	LCS Testino	N/A
Resistive PIS		Р
Safeguards against fire under normal operating a conditions	nd abnormal operating	Р
No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table 5.4.1.4, 6.3.2, 9.0, B.2.6)	Р
Combustible materials outside fire enclosure:		N/A
Safeguards against fire under single fault condition	ons	股伊
Safeguard method	USO CSTest	ua Fan
Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		Р
Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		Р
Supplementary safeguards		Р
Single Fault Conditions		Р
Special conditions for temperature limited by fuse		N/A
Control of fire spread in PS1 circuits		Р
	Classification of PS and PIS  Power source circuit classifications	Classification of PS and PIS  Power source circuit classifications



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Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Tresuit - Tremain	Verdict
6.4.5	Control of fire spread in PS2 circuits		Р
6.4.5.2	Supplementary safeguards	-	Р
6.4.6	Control of fire spread in PS3 circuits	No PS3 circuits.	N/A
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.2	Separation by distance		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		Р
6.4.8.2	Fire enclosure and fire barrier material properties	共 讯 检测	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		Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		N/A
6.4.8.3.1	Fire enclosure and fire barrier openings		N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top openings and properties	No openings.	N/A
	Openings dimensions (mm):		N/A
6.4.8.3.4	Bottom openings and properties	No openings.	N/A
TH拉河ME	Openings dimensions (mm):	Less than 1mm	N/A
LCS Test	Flammability tests for the bottom of a fire enclosure	LCS Test	N/A
	Instructional Safeguard:		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	15 I CS Test	N/A
6.5.2	Requirements for interconnection to building wiring		N/A
6.5.3	Internal wiring size (mm²) for socket-outlets:		N/A
6.6	Safeguards against fire due to the connection to	additional equipment	Р

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

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EC 62368-1			
Clause	Requirement + Test Result - Remark	Verdict	
7.3	Ozone exposure	N/A	
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		
	Instructional safeguard (ISO 7010):	_	
7.6	Batteries and their protection circuits	N/A	

8	MECHANICALLY-CAUSED INJURY		P
8.2	Mechanical energy source classifications	VST TCSTES	Р
8.3	Safeguards against mechanical energy sources		N/A
8.4	Safeguards against parts with sharp edges and corners		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.	N/A
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	2.用检测股份	N/A
LCS Testing	MS2 or MS3 part required to be accessible for the function of the equipment	LCS Testins	N/A
	Moving MS3 parts only accessible to skilled person		N/A
8.5.2	Instructional safeguard		N/A
8.5.4	Special categories of equipment containing moving parts		N/A
☆8.5.4.1	General		N/A
8.5.4.2	Equipment containing work cells with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work cell		N/A
8.5.4.2.2	Access protection override	· 1 徐平	N/A
8.5.4.2.2.1	Override system	VIST LCS Test	N/A
8.5.4.2.2.2	Visual indicator		N/A
8.5.4.2.3	Emergency stop system		N/A
	Maximum stopping distance from the point of activation (m)		N/A
	Space between end point and nearest fixed mechanical part (mm):		N/A
8.5.4.2.4	Endurance requirements		N/A





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Clause	Requirement + Test	Result - Remark	Verdict
	Mechanical system subjected to 100 000 cycles of operation		N/A
	- Mechanical function check and visual inspection		N/A
	- Cable assembly:		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media		N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:	- ~11	N/A
8.5.4.3.3	Disconnection from the supply	工训制证的	N/A
8.5.4.3.4	Cut type and test force (N)	Top I've	N/A
8.5.4.3.5	Compliance		N/A
☆8.5.5	High pressure lamps		N/A
	Explosion test:		N/A
8.5.5.3	Glass particles dimensions (mm):		N/A
8.6	Stability of equipment		N/A
8.6.1	General		N/A
. are l	Instructional safeguard:	an th	N/A
8.6.2	Static stability	古语位 ing Lab	N/A
8.6.2.2	Static stability test:	LCSTOOM	N/A
8.6.2.3	Downward force test	-	N/A
8.6.3	Relocation stability		N/A
	Wheels diameter (mm)		_
	Tilt test		N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test		N/A
8.7	Equipment mounted to wall, ceiling or other struc	ture	N/A
8.7.1	Mount means type	Not such equipment.	N/A
8.7.2	Test methods	1 LCS Test	N/A
	Test 1, additional downwards force (N)		N/A
	Test 2, number of attachment points and test force (N)		N/A
	Test 3 Nominal diameter (mm) and applied torque (Nm)		N/A
8.8	Handles strength		N/A
8.8.1	General	No handles provided.	N/A



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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
8.8.2	Handle strength test		N/A	
	Number of handles		_	
	Force applied (N)		_	
8.9	Wheels or casters attachment requirements		N/A	
8.9.2	Pull test	No wheels or casters.	N/A	
8.10	Carts, stands and similar carriers		N/A	
8.10.1	General	No carts, stands or similar carriers.	N/A	
8.10.2	Marking and instructions	VST LCS Test	N/A	
8.10.3	Cart, stand or carrier loading test	1	N/A	
	Loading force applied (N)		N/A	
8.10.4	Cart, stand or carrier impact test		N/A	
8.10.5	Mechanical stability		N/A	
	Force applied (N)			
8.10.6	Thermoplastic temperature stability		N/A	
8.11	Mounting means for slide-rail mounted equipmen	nt (SRME)	N/A	
8.11.1	General	Not such equipment.	N/A	
8.11.2	Requirements for slide rails	立语 Testing Lab	N/A	
LCS 13	Instructional Safeguard:	rca .	N/A	
8.11.3	Mechanical strength test		N/A	
8.11.3.1	Downward force test, force (N) applied:		N/A	
8.11.3.2	Lateral push force test		N/A	
8.11.3.3	Integrity of slide rail end stops		N/A	
8.11.4	Compliance		N/A	
8.12	Telescoping or rod antennas		N/A	
	Button/ball diameter (mm)	No such parts.	_	

9	THERMAL BURN INJURY	THERMAL BURN INJURY	
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



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话检测的	IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
9.5.1	Equipment safeguard		Р		
9.5.2	Instructional safeguard		N/A		
9.6	Requirements for wireless power transmitters	•	Р		
9.6.1	General		Р		
9.6.2	Specification of the foreign objects		Р		
9.6.3	Test method and compliance		Р		

10	RADIATION		P
10.2	Radiation energy source classification	LCSTest	Р
10.2.1	General classification		Р
	Lasers:	No laser radiation	_
	Lamps and lamp systems:		_
	Image projectors:		_
	X-Ray:		_
	Personal music player:		_
10.3	Safeguards against laser radiation		N/A
识检测股份	The standard(s) equipment containing laser(s) comply:	立讯检测股份	N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)		P
10.4.1	General requirements		Р
	Instructional safeguard provided for accessible radiation level needs to exceed		Р
	Risk group marking and location		Р
	Information for safe operation and installation		Р
10.4.2	Requirements for enclosures		N/A
	UV radiation exposure:		N/A
10.4.3	Instructional safeguard:	古· 田位河	N/A
10.5	Safeguards against X-radiation	LCS Test	N/A
10.5.1	Requirements	No such x-radiation generated from the equipment	N/A
	Instructional safeguard for skilled persons:		_
10.5.3	Maximum radiation (pA/kg)		
10.6	Safeguards against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification		N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Acoustic output L <sub>Aeq,T</sub> , dB(A):		N/A
	Unweighted RMS output voltage (mV)		N/A
	Digital output signal (dBFS)		N/A
10.6.3	Requirements for dose-based systems		N/A
10.6.3.1	General requirements		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
د	30 s integrated exposure level (MEL30):	上 讯俭 <sup>训</sup>	N/A
NST.	Warning for MEL ≥ 100 dB(A)	LCS Tes	N/A
10.6.4	Measurement methods		N/A
10.6.5	Protection of persons		N/A
	Instructional safeguards:		N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)		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	-alla	N/A
话检测版	Max. acoustic output L <sub>Aeq,T</sub> , dB(A)		N/A
10.6.6.3	Cordless listening devices	LCS Testima	N/A
	Max. acoustic output L <sub>Aeq,T</sub> , dB(A)		N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS  General		Р
B.1			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)	股份P
1/8/	Audio Amplifiers and equipment with audio amplifiers:	LCS Test	N/A
B.2.3	Supply voltage and tolerances	Rated voltage	Р
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	•	Р
B.3.1	General	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings		N/A
	Instructional safeguard:		N/A



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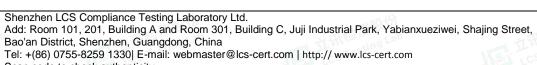


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Clause	Requirement + Test	Result - Remark	Verdict
B.3.3	DC mains polarity test	The EUT is not connected to a D.C. mains	N/A
B.3.4	Setting of voltage selector	No voltage selector was used.	N/A
B.3.5	Maximum load at output terminals		N/A
B.3.6	Reverse battery polarity		N/A
B.3.7	Audio amplifier abnormal operating conditions		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions:	All safeguards remain effective.	P
B.4	Simulated single fault conditions	立语位为	ng LP
B.4.1	General	- Por res	Р
B.4.2	Temperature controlling device		N/A
B.4.3	Blocked motor test		N/A
B.4.4	Functional insulation	See below.	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards used.	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	立语位测量Lab	N/A
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	767	N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV rac	diation	N/A
C.1.2	Requirements	No such UV generated from the equipment.	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus:		N/A
C.2.2	Mounting of test samples		N/A









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Liff Fing Li	IEC 62368-1	THE PRING Lab	世讯和
Clause	Requirement + Test	Result - Remark	Verdict
C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINI	NG AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio	signals	N/A
1190	Maximum non-clipped output power (W):	1 LCS Test	_
	Rated load impedance (Ω):		
	Open-circuit output voltage (V):		
	Instructional safeguard:		
E.2	Audio amplifier normal operating conditions	1	N/A
	Audio signal source type:		
	Audio output power (W):		_
	Audio output voltage (V):		_
五块测股份	Rated load impedance (Ω):	<b>工长测股份</b>	_
CS Testing L	Requirements for temperature measurement	T. Managing Land	N/A
E.3	Audio amplifier abnormal operating conditions	12	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	Р
F.1	General		Р
	Language:	English version provided and checked.	_
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	P 股份
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.	P
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	The required marking is located on the product is easily visible.	Р
F.3.2	Equipment identification markings	See copy of marking plate.	Р
		1	1







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LYN Testing L	IEC 62368-1	TI Washing Lan	工艺
Clause	Requirement + Test	Result - Remark	Verdict
F.3.2.1	Manufacturer identification:	See copy of marking plate.	_
F.3.2.2	Model identification:	See page 2 for details.	
F.3.3	Equipment rating markings	See the following details.	Р
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains		Р
F.3.3.3	Nature of the supply voltage:	See copy of marking plate.	_
F.3.3.4	Rated voltage:	See copy of marking plate.	an 147
F.3.3.5	Rated frequency:	女话检测	ua r <del>ap</del>
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		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
CS Testing L	Instructional safeguards for neutral fuse:	Tiffesting Lab	N/A
F.3.5.4	Replacement battery identification marking:	10	N/A
F.3.5.5	Neutral conductor terminal	See below.	N/A
F.3.5.6	Terminal marking location	Class III equipment	N/A
F.3.6	Equipment markings related to equipment classification		N/A
F.3.6.1	Class I equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal:		N/A
F.3.6.1.2	Protective bonding conductor terminals:		N/A
F.3.6.2	Equipment class marking:	n AT	N/A
F.3.6.3	Functional earthing terminal marking:	VIST ICS TEST	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



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Clause	Requirement + Test	Result - Remark	Verdict
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.	P 股份
1 Si L	STEST LCS Test	After each test, the marking remained legible.	
F.4	Instructions		Р
	a).Information prior to installation and initial use		N/A
	b).Equipment for use in locations where children not likely to be present		N/A
	c). Instructions for installation and interconnection		Р
	d). Equipment intended for use only in restricted access area		N/A
· · · · · · · · · · · · · · · · · · ·	e). Equipment intended to be fastened in place	~ 测度份	N/A
识形型 Resting La	f). Instructions for audio equipment terminals	立语 Testing Lab	N/A
Ca.	g). Protective earthing used as a safeguard	res.	N/A
	h) Protective conductor current exceeding ES2 limits		N/A
	i). Graphic symbols used on equipment	No such symbols used as a safeguard considered.	N/A
	j). Permanently connected equipment not provided with all-pole mains switch	Not permanently connected equipment.	N/A
	k) Replaceable components or modules providing safeguard function	No such markings.	N/A
	l). Equipment containing insulating liquid		N/A
	m) Installation instructions for outdoor equipment	- 1位刊	N/A
F.5	Instructional safeguards	IST ICS Test	P
G	COMPONENTS		Р
<b>☆G.1</b>	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
<b>☆G.2</b>	Relays		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
G.2.1	Requirements	No such relay provided within the equipment.	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance		N/A
<b>☆G.3</b>	Protective devices	,	N/A
G.3.1	Thermal cut-offs	No thermal cut-offs provided within the equipment.	N/A
1/ST L	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	15T LCS TOS	N/A
	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Test method and compliance		N/A
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics	No thermal link provided within the equipment.	N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance	一加股份	N/A
G.3.3	PTC thermistors	No PTC thermistor used.	N/A
G.3.4	Overcurrent protection devices	rcs	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions:		N/A
G.4	Connectors		N/A
G.4.1	Spacings		N/A
☆G.4.2	Mains connector configuration:		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	ISA 立語機能	N/A
G.5	Wound components		N/A
G.5.1	Wire insulation in wound components		N/A
G.5.1.2	Protection against mechanical stress		N/A
☆G.5.2	Endurance test	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):		_
	•	<u> </u>	



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Little ting L	ab IEC 62368-1	Till Taxing Lab	江洲和
Clause	Requirement + Test	Result - Remark	Verdict
	Test temperature (°C):		_
G.5.2.3	Wound components supplied from the mains		N/A
G.5.2.4	No insulation breakdown		N/A
G.5.3	Transformers		N/A
G.5.3.1	Compliance method:		N/A
	Position:		N/A
	Method of protection:		N/A
G.5.3.2	Insulation	- 讯检测	N/A
1/5/	Protection from displacement of windings:	1 ST LCS Test	_
G.5.3.3	Transformer overload tests		N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding temperatures		N/A
G.5.3.3.3	Winding temperatures - alternative test method		N/A
G.5.3.4	Transformers using FIW	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	人而股份	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	LCS Testing Land	N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core		N/A
G.5.3.4.5	Thermal cycling test and compliance		N/A
G.5.3.4.6	Partial discharge test		N/A
G.5.3.4.7	Routine test		Р
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	立讯恒"	N/A
G.5.4.4.2	Locked-rotor overload test	Top res	N/A
	Test duration (days):		
G.5.4.5	Running overload test for DC motors		N/A
G.5.4.5.2	Tested in the unit		N/A
G.5.4.5.3	Alternative method		N/A
G.5.4.6	Locked-rotor overload test for DC motors		N/A
G.5.4.6.2	Tested in the unit		N/A



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Testing L	lEC 62368-1	Till Tasting Lab	T 11/12
Clause	Requirement + Test	Result - Remark	Verdict
	Maximum Temperature		N/A
G.5.4.6.3	Alternative method		N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
	Operating voltage:		_
G.6	Wire Insulation		N/A
G.6.1	General	<b>五祖位</b> 》	N/A
G.6.2	Enamelled winding wire insulation	LCS Tes	N/A
G.7	Mains supply cords		N/A
☆G.7.1	General requirements		N/A
	Туре:		_
G.7.2	Cross sectional area (mm <sup>2</sup> or AWG):		N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
识检测的L	Strain relief test force (N):	古语位 ming Lab	N/A
G.7.3.2.2	Strain relief mechanism failure	rcs to	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material		N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Test method and compliance		N/A
	Overall diameter or minor overall dimension, <i>D</i> (mm):		_
过过	Radius of curvature after test (mm):	工证证证	_
G.7.6	Supply wiring space	- I Con I Co	N/A
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements		N/A
G.7.6.2.2	Test with 8 mm strand		N/A
<b>☆G.8</b>	Varistors		N/A
G.8.1	General requirements		N/A



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Lylland La	IEC 62368-1	Tittle ing Lar	Title
Clause	Requirement + Test	Result - Remark	Verdict
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
<b>☆G.9</b>	Integrated circuit (IC) current limiters		N/A
G.9.1	Requirements	No IC current limiter provided within the equipment.	N/A
	IC limiter output current (max. 5A):	n the T	_
MSI I	Manufacturers' defined drift:	VS LCS Test	_
G.9.2	Test Program		N/A
G.9.3	Compliance		N/A
☆G.10	Resistors		N/A
G.10.1	General	No such resistor as safeguard used	N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test	No such resistors	N/A
G.10.4	Voltage surge test	- 113	N/A
G.10.5	Impulse test	古语检测版/	N/A
G.10.6	Overload test	LCS Testino	N/A
<b>☆G.11</b>	Capacitors and RC units		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
☆G.12	Optocouplers		N/A
	Optocouplers comply with IEC 60747-5-5 with specifics		N/A
	Type test voltage V <sub>ini,a</sub> :		_
一丁	Routine test voltage, V <sub>ini, b</sub> :	工讯位派	_
G.13	Printed boards	Top res	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	Р







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Lylvi eing !	IEC 62368-1	TIME single	TIME
Clause	Requirement + Test	Result - Remark	Verdict
☆G.13.3	Coated printed boards	No coated printed board or multilayer board applied for within the equipment.	N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation:		N/A
	Number of insulation layers (pcs):		_
☆G.13.6	Tests on coated printed boards	· 讯检河	N/A
G.13.6.1	Sample preparation and preliminary inspection	MST LCS Test	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	14 河股份	N/A
G.15.2.1	Hydrostatic pressure test	Till Esting Lab	N/A
G.15.2.2	Creep resistance test	1	N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test		N/A
G.15.2.5	Thermal cycling test		N/A
G.15.2.6	Force test		N/A
G.15.3	Compliance		N/A
☆G.16	IC including capacitor discharge function (ICX)		N/A
G.16.1	Condition for fault tested is not required		N/A
_ +	ICX with associated circuitry tested in equipment	女讯检测	N/A
1/54	ICX tested separately	VST LCS Tes	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:		_



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	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdict
G.16.3	Capacitor discharge test:		N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General		N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz)	立语检查	
H.3.1.2	Voltage (V)	TCS 10	
H.3.1.3	Cadence; time (s) and voltage (V):		
H.3.1.4	Single fault current (mA)::		
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V):		N/A
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		N/A
J.1	General	LCSTON	N/A
	Winding wire insulation:		—
	Solid round winding wire, diameter (mm):		N/A
	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):		N/A
J.2/J.3	Tests and Manufacturing		
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
	Instructional safeguard:	No safety interlock provided within the equipment.	N/A
K.2	Components of safety interlock safeguard mechanic	anism	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
K.5.1	Under single fault condition		N/A
			NI/A
K.6	Mechanically operated safety interlocks		N/A
<b>K.6</b> K.6.1	Mechanically operated safety interlocks  Endurance requirement		N/A N/A



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Clause	Requirement + Test	Result - Remark	Verdict
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements		N/A
	In circuit connected to mains, separation distance for contact gaps (mm):		N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):		N/A
	Electric strength test before and after the test of K.7.2:		N/A
☆K.7.2	Overload test, Current (A):		N/A
☆K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A
L	DISCONNECT DEVICES		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 TH	EIR PROTECTION CIRCUITS	N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Batteries and their cells comply with relevant IEC standards:		N/A
M.3	Protection circuits for batteries provided within the equipment	上田检测	N/A
M.3.1	Requirements		N/A
M.3.2	Test method		N/A
	Overcharging of a rechargeable battery		N/A
	Excessive discharging		N/A
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A
M.3.3	Compliance		N/A



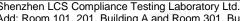
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Lith Testing	IEC 62368-1	Titha sing Lab	Tille
Clause	Requirement + Test	Result - Remark	Verdict
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Requirements		N/A
M.4.2.2	Compliance		N/A
M.4.3	Fire enclosure		N/A
M.4.4	Drop test of equipment containing a secondary lithium battery	立讯检测	N/A
M.4.4.2	Preparation and procedure for the drop test		N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::		N/A
M.4.4.4	Check of the charge/discharge function		N/A
M.4.4.5	Charge / discharge cycle test		N/A
M.4.4.6	Compliance		N/A
M.5	Risk of burn due to short-circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Test method and compliance		N/A
M.6	Safeguards against short-circuits		N/A
M.6.1	External and internal faults		N/A
M.6.2	Compliance		N/A
☆M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration	No NiCd battery	N/A
	Calculated hydrogen generation rate:		N/A
M.7.2	Test method and compliance		N/A
	Minimum air flow rate, Q (m³/h):		N/A
M.7.3	Ventilation tests		N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A
	Hydrogen gas concentration (%):		N/A
M.7.3.3	Ventilation test – alternative 2		N/A
	Obtained hydrogen generation rate:		N/A
M.7.3.4	Ventilation test – alternative 3		N/A
	Hydrogen gas concentration (%):		N/A
M.7.4	Marking		N/A











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Lift Pasting	IEC 62368-1	Till Maring Lab	工识型
Clause	Requirement + Test	Result - Remark	Verdict
<b>☆M.8</b>	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte		N/A
M.8.1	General	No lead acid battery	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 <sup>3</sup> /s):		_
M.8.2.3	Correction factors		_
M.8.2.4	Calculation of distance d (mm):		_
M.9	Preventing electrolyte spillage	UST CS Test	N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse		N/A
	Instructional safeguard:		N/A
N	ELECTROCHEMICAL POTENTIALS		N/A
	Material(s) used:		_
0	MEASUREMENT OF CREEPAGE DISTANCES A	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	
	Value of X (mm):		_
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	тѕ	N/A
P.1	General	No PS3 circuits	N/A
P.2	Safeguards against entry or consequences of entry of a foreign object		N/A
P.2.1	General		N/A
P.2.2	Safeguards against entry of a foreign object		N/A
	Location and Dimensions (mm):		
P.2.3	Safeguards against the consequences of entry of a foreign object		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









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Lylv. sing	IEC 62368-1	TITITI
Clause	Requirement + Test Result - Remark	Verdic
P.3.4	Compliance	N/A
☆P.4	Metallized coatings and adhesives securing parts	N/A
P.4.1	General	N/A
P.4.2	Tests	N/A
	Conditioning, T <sub>C</sub> (°C):	_
	Duration (weeks):	_
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING	N/A
Q.1	Limited power sources	N/A
Q.1.1	Requirements	N/A
	a) Inherently limited output	N/A
	b) Impedance limited output	N/A
	c) Regulating network limited output	N/A
	d) Overcurrent protective device limited output	N/A
	e) IC current limiter complying with G.9	N/A
Q.1.2	Test method and compliance:	N/A
	Current rating of overcurrent protective device (A)	N/A
Q.2	Test for external circuits – paired conductor cable	N/A
	Maximum output current (A):	N/A
	Current limiting method:	_
R	LIMITED SHORT CIRCUIT TEST	N/A
R.1	General No such consideration.	N/A
R.2	Test setup	N/A
	Overcurrent protective device for test:	_
R.3	Test method	N/A
	Cord/cable used for test:	_
R.4	Compliance	N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	
	Samples, material: Certified fire enclosure used	. —
	Wall thickness (mm):	_
	Conditioning (°C):	_
	Test flame according to IEC 60695-11-5 with conditions as set out	N/A



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i if The sing	IEC 62368-1	古讯和
Clause	Requirement + Test Result - Remark	Verdict
	- Material not consumed completely	N/A
	- Material extinguishes within 30s	N/A
	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A
	Samples, material:	_
	Wall thickness (mm):	_
	Conditioning (°C)	_
S.3	Flammability test for the bottom of a fire enclosure	N/A
S.3.1	Mounting of samples	N/A
S.3.2	Test method and compliance	N/A
	Mounting of samples:	
	Wall thickness (mm):	_
S.4	Flammability classification of materials	N/A
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:	Р
T.3	Steady force test, 30 N:	N/A
T.4	Steady force test, 100 N:	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:	Р
T.8	Stress relief test:	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



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Little	IEC 62368-1	Till Tassing Lab	世洲和			
Clause	Requirement + Test	Result - Remark	Verdict			
U	MECHANICAL STRENGTH OF CATHODE RAY T AGAINST THE EFFECTS OF IMPLOSION	UBES (CRT) AND PROTECTION	N/A			
U.1	General		N/A			
	Instructional safeguard:		N/A			
U.2	Test method and compliance for non-intrinsicall	y protected CRTs	N/A			
U.3	Protective screen		N/A			
V	DETERMINATION OF ACCESSIBLE PARTS					
V.1	Accessible parts of equipment		N/A			
V.1.1	General		N/A			
V.1.2	Surfaces and openings tested with jointed test probes		N/A			
V.1.3	Openings tested with straight unjointed test probes		N/A			
V.1.4	Plugs, jacks, connectors tested with blunt probe		N/A			
V.1.5	Slot openings tested with wedge probe		N/A			
V.1.6	Terminals tested with rigid test wire		N/A			
V.2	Accessible part criterion		N/A			
Х	ALTERNATIVE METHOD FOR DETERMINING CL IN CIRCUITS CONNECTED TO AN AC MAINS NO (300 V RMS)		N/A			
	Clearance		N/A			
Y	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A			
Y.1	General		N/A			
Y.2	Resistance to UV radiation		N/A			
Y.3	Resistance to corrosion		N/A			
Y.3	Resistance to corrosion		N/A			
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by		N/A			
Y.3.2	Test apparatus		N/A			
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A			
Y.3.4	Test procedure		N/A			
Y.3.5	Compliance		N/A			
Y.4	Gaskets		N/A			
Y.4.1	General		N/A			
Y.4.2	Gasket tests		N/A			
Y.4.3	Tensile strength and elongation tests		N/A			
	Alternative test methods:		N/A			



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	lab IEC 6	2368-1	古话检测
Clause	Requirement + Test	Result - Remark	Verdict
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 outo	door enclosure	N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		N/A
	Relevant tests of IEC 60529 or Y.5.3	:	N/A
Y.5.3	Water spray test		N/A
Y.5.4	Protection from plants and vermin		N/A
Y.5.5	Protection from excessive dust		N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment		N/A
Y.6	Mechanical strength of enclosures		N/A
Y.6.1	General		N/A
Y.6.2	Impact test	:	N/A
i形检测股 CS Testing	份 Lab Los Testing Lab	TEL 工活检测股份 LCS Testing Lab	TH拉测 LOS TOSHIN







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5.2	TABLE: Classification of electrical energy sources						P
Supply Voltage	Location (e.g.	Test conditions		F	Parameters		ES Class
voltage	designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info 2)	Olass
9Vdc Max	Internal circuits	Normal	9Vdc Max				ES1

Supplementary information:

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

5.4.1.8 TABI	TABLE: Working voltage measurement						
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comm	ents	
Supplementary inf	ormation:						

5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics					
Method			:	ISO 306 / B50		_
Object/ Part No./Material Manufacturer/trademark Thickness (mm) T softening						ng (°C)
			1		12	
Supplement	ary information:					

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics						
Allowed impression diameter (mm) ≤ 2 mm							_
Object/Part No./Material		Manufacturer/trademark	Thickness				ression ter (mm)
	n 检测程物		立测股约			四检测	股切
Supplementa	ary information:	MST LCS	esting -		VSA 3	CS Test	lua -

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance							N/A	
Clearance (cl) and creepage distance (cr) at/of/between:	U <sub>p</sub> (V)	U <sub>rms</sub> (V)	Freq 1) (Hz)	Required cl (mm)	cl (mm)	E.S. <sup>2)</sup> (V)	Required cr (mm)	cr (mm)
Supplementary information:								



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

5.4.4.2	TABLE: Minimum distance through insulation						
Distance thr (DTI) at/of	ough insulation	Peak voltage (V)	Insulation	Required DTI (mm)	Mea	sured DTI (mm)	
Supplement	ary information:						
	(本) ] ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [	. 0	测股份		LA:T	服份	

Medica	G 700		Mar cal	6-7		Maria ag	100
5.4.4.9	TABLE: Solid in	nsulation at	frequencies	>30 kHz			N/A
Insulation ma	aterial	$E_{P}$	Frequency (kHz)	<b>K</b> <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)
Supplementa	ary information:						
Supplementa	ary information:						

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

5.5.2.2 TABLE: Stored discharge on capacitors						N/A
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class
	可检测股	73	一位测股份			会测胜价

Supplementary information:

X-capacitors installed for testing:

[ ]bleeding resistor rating:

[ ]ICX:

Normal operating condition (e.g., normal operation, or open fuse), SC= short circuit, OC= open circuit

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



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1			Page 42	2 01 77	кероп но.	: LCSAU/	1940675
ree , c		Med Ico.		1 FOR			I Les 1
Supplement	ary infor	mation:				•	
5.7.4	TABLE	E: Unearthed acce	ssible parts				N/A
Location		Operating and	Supply		Parameters		ES
		fault conditions	Voltage (V)	Voltage	Current	Freq.	class

 $(V_{rms} or V_{pk})$ 

(Hz)

 $(A_{rms} \text{ or } A_{pk})$ 

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed access	ible conductive part			N/A
Supply volta	age (V):				_
Phase(s)	······:	[] Single Phase; [] Three F	Phase: [] Delta [	] Wye	
Power Distr	ibution System:	□TN □TT [	☐ IT		
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comm	ent
- 11检测股份	が、一切物	则股份	加拉灣股份		n to
Supplement	tary Information:	sting L	I CS Testing	V.	ST CS Tes
				T	

5.8	TABLE:	Backfeed sa	afeguard in battery l	backed up s	upplies		N/A
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class
Supplemen	tary inforr	nation:					
Abbreviatio	n: SC= sh	ort circuit, O	C= open circuit				
	SA IIII:	份		調股份			加股份

6.2.2 TA	ABLE: Power source	circuit classificat	tions		- Texa Io	Р
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class
Internal circuit	Normal condition			<100W	5s	PS2
Supplementary	information:					
Abbreviation: S	C= short circuit; OC=	open circuit				
1) Measured a	fter 3 s for PS1 and m	neasured after 5 s f	for PS2 and F	PS3.		





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6.2.3.1	TABLE: Determi	nation of Arcing PIS		N/A	
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
Supplement	ary information:				
Supplement	ary information.				

6.2.3.2	TABLE: Determin	nation of resistive PIS		Р
Location		Operating and fault condition	Dissipate power (W)	Resistive PIS? Yes / No
All primar	y circuits / parts			Yes (declaration)

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.

A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, or (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

All conductors and devices are considered as PIS.

8.5.5	TABLE: High pre	ssure lamp				N/A
Lamp manu	facturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	be	ticle found yond 1 m es / No
Supplement	ary information:					
	一侧段份		~ 测股份			服役份

9.6	TABLE	: Tempera	ture meas	urem	ents	for wireles	s power t	ransmitter	s	Р
Supply volta	age (V)			:	9VDC					_
Max. transmit power of transmitter (W)					10W					
1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2				receiver and with receiver and at ect contact distance of 2 mm		with receiver and distance of 5 mr				
Foreign ol	bjects	Object (°C)	Ambient (°C)		ject C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Steel d	isc	28.3	25.0	28	3.5	24.9	28.9	25.0	28.1	25.0
Aluminum	n ring	27.9	24.8	2	7.6	25.0	28.5	24.9	27.9	24.7



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Aluminium foil	28.1	24.9	27.9	24.7	27.6	24.8	28.2	24.9
Supplementary inforr	nation:							

5.4.1.4, TABL	E: Tempe	rature mea	asurem	ents				Р
9.3, B.1.5, B.2.6								
Supply voltage (V).			:	5V	_			
Ambient temperatu	re during	test $T_{amb}$ (°	C):		-	_	-	_
Maximum measure	ed tempera	ature <i>T</i> of p	art/at:		T	(°C)		Allowed T <sub>max</sub> (°C)
PCB near U1			115	41.3		42.1	SI-TCST	130
PCB near U2				40.5		41.2		130
PCB near U3				42.3		43.3		130
L1 winding				39.4		41.1		130
Plastic enclosure in	nside			31.2		32.6		115
Plastic enclosure o	utside			30.4		31.1		77
Ambient				25.0		25.0		
Temperature T of v	vinding:	t <sub>1</sub> (°C)	$R_1 (\Omega)$	t <sub>2</sub> (°C)	$R_2(\Omega)$	T (°C)	Allowed $T_{\text{max}}$ (°C)	Insulation class
可控测 Lab		工工 在 不 位 1	ina rap		证形	Aing Lab		一 世田位

#### 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	1	TABLE: Input test							
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition	/status
5Vdc		1.64	2	8.2				Normal operation	u\
9Vdc	江州	1.6	2	14.4	A校测版力			Normal operation	rap [Ju

B.3, B.4	TABLE: Abnori	nal operating	g and fau	It conditio	1 tests		Р	
Ambient temperature T <sub>amb</sub> (°C): See below								
Power source	Power source for EUT: Manufacturer, model/type, outputrating :							
Component N	Component No. Condition Supply time Fuse no. Fuse current (A)							



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R31	sc	12Vdc	10mins	42	 Unit shut down, recoverable, no damage, no hazard.
C41	SC	12Vdc	10mins		 Unit shut down, recoverable, no damage, no hazard.
Q1 Pin 1-3	SC	12Vdc	10mins	1	 Unit shut down, recoverable, no damage, no hazard.

### Supplementary information:

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

M.3	TABLE: Pro	otection circu	its f	or batteri	es provid	ed w	vithin	the equ	uipment	N/A
Is it possible t	o install the	battery in a rev	/ers	e polarity p	osition?	:	No			
		Charging								
Equipment S	pecification	Voltage (V)						Current (A)		
					Battery	spec	cificati	on		
		Non-recharge	able	batteries			Rech	nargeabl	e batteries	
	Discharging	Unintentional		Charging				Discharging	Reverse	
Manufactu	ırer/type	current (A)	A) charging current (A)		Voltage (	(V)	V) Current (A		current (A)	charging current (A)
					1.				1	
Note: The tes	ts of M.3.2 a	e applicable o	nly v	vhen above	e appropri	ate c	lata is	not ava	ilable.	
Specified batt	ery tempera	ture (°C)				:				
Component Fault Charge/ No. condition discharge mode			Test time	Temp. (°C)		urrent Volta (A) (V)		e Obse	rvation	
Supplemental	ry informatior	n:								

M.4.2	TABLE: Charging sa battery	feguards for equipment con	taining a s	econdary lithium	N/A			
Maximum specified charging voltage (V):								
Maximum specified charging current (A):								
Highest spe	cified charging tempera	ture (°C):						
Lowest specified charging temperature (°C):								
Battery	Operating	Operating Measurement Observat						

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



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



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manufacturer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)	
	Normal				
	Normal				

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 intended for interconnection with building wiring (LPS)  N/A							
Output Circuit	Condition	U <sub>oc</sub> (V)	Time (s)	I <sub>sc</sub> (A)		S (VA)		
	Condition			Meas.	Limit	Meas.	Limit	
					8		100	
					8		100	

Supplementary Information:

Abbreviation: SC= short circuit

T.2, T.3, T.4, T.5	TABLI	E: Steady force test	n lld			n.llà		Р	
Part/Location	า	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Obse	rvation	
Internal parts					10	5	No dama	ige, no	
Enclosure Plastic		Min. 1.5		100	5	5 No damage, hazard			
Supplementa	Supplementary information:								

T.6, T.9	TABLE: Imp	ABLE: Impact test						
Location/part Material		Thickness (mm)	Height (mm)	Observation				
	Testing		resting		III	ting		
Supplementary information:								

T.7	TABLE: Drop	o test				Р		
Location/part		Material	Thickness (mm)	Height (mm)	Observation	on		
Enclosure		Plastic	Min. 1.5	1000	No damage, no ha	zard		
Supplementary information:								

T.8	TABLE: Stress relief test	Р
- 1 TE 17	RL: 77) RL: 77	



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-6765		762	110		110	
Location/Part	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation	
Enclosure	Plastic	Min. 1.5	70	7	No damage, no hazard	
Supplementary infor	mation:					

4.1.2	TABLE:	Critical componer	its information			Р
Object / p	oart No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>
Plastic enclosure	e立语位 LCS Tes	SABIC INNOVATIVE PLASTICS US L L C	EXL9112(GG)(X)	V-0, min. 1.5 mm, 115°C	UL 94, UL 746	UL E121562
PCB		DONGGUAN HUATUO ELECTRONIC CO LTD	AF-001	V-0, 130°C	UL 796	UL E347659
Internal v	wire	Shenzhen Dingyu Electrical Technology Co Ltd	1007, 1571	300VAC; VW-1; 80°C; Min 30AWG	UL 758	UL E365423
LED chip	DS 及份 g Lab	Shenzhen jingrui photoelectric Co.,LTD	SMD2835	IF=60 mA; VF=2,9-3,3 V; Size: 2,8×3,5×0,7mm;	IEC/ EN 62471; IEC/ EN 62031	Report No.: LCSB0614 23008S

Supplementary information:





<sup>1)</sup> Provided evidence ensures the agreed level of compliance.



Clause

## Page 48 of 77

# Attachment No.1

IEC62368_		
Requirement + Test	Result - Remark	Verdict

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#### ATTACHMENT TO TEST REPORT

# IEC 62368-1

#### **EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES**

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

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

Attachment Form No. ..... EU\_GD\_IEC62368\_1E

Attachment Originator....: UL(Demko)

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

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	CENELEC COMMON MOD	DIFICATIONS (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 those in IEC 62368-1:2018	s, tables, figures and annexes which are additional to are prefixed "Z".	
an th	Add the following annexes:	THE STATE OF THE S	Р
立语检测版》 Lics Testing Lab	Annex ZA (normative) with their con	Normative references to international publications responding European publications	立语检测的 LCS Testin
	Annex ZB (normative)	Special national conditions	
	Annex ZC (informative)	A-deviations	
	Annex ZD (informative) cords	IEC and CENELEC code designations for flexible	
1	Modification to Clause 3.		
3.3.19	Sound exposure		Р
	Replace 3.3.19 of IEC 62368-1 with the following definitions:		







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#### **Attachment No.1**

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

3.3.19.1 momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 SZ test signal applied to both channels, based on EN 50332-1:2013, 4.2.  Note 1 to entry: MEL is measured as A-weighted levels in dB.  Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.  3.3.19.3 sound exposure, $E$ A-weighted sound pressure ( $\rho$ ) squared and integrated over a stated period of time, $T$ Note 1 to entry: The SI unit is $Pa^2$ s. $E = \int_{0}^{T} p(t)^2 dt$ 3.3.19.4 sound exposure level, $SEL$ logarithmic measure of sound exposure relative to a reference value, $E0$ , typically the 1 kHz threshold of hearing in humans.  Note 1 to entry: SEL is measured as A-weighted levels in dB. $SEL = 10 \lg \left(\frac{E}{E_0}\right)_{\text{dB}}$ 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 levels reported in dBFS are always r.m.s, Full scale level, o 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, leaving the code corresponding to negative digital full scale unused 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 creat factor lower than that of a sine wave wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	Clause	Requirement + Test	Result - Remark	Verdict
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.  Note 1 to entry: MEL is measured as A-weighted levels in dB.  Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.  3.3.19.3 sound exposure, $E$ A-weighted sound pressure $(p)$ squared and integrated over a stated period of time, $T$ Note 1 to entry: The SI unit is $P^2$ s. $T$ $E = \int_{0}^{T} p(t)^2 dt$ 3.3.19.4 sound exposure level, $SEL$ logarithmic measure of sound exposure relative to a reference value, $ED$ , typically the 1 kHz threshold of hearing in humans.  Note 1 to entry: $SEL$ 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 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  Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale unused  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.	Los	The last the second sec	Lus	100
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2 Modification to Clause 10		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		
	2	Modification to Clause 10		



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#### **Attachment No.1**

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

10.6	Safeguards against acoustic energy sources	N/A
	Replace 10.6 of IEC 62368-1 with the following:	
10.6.1.1	Introduction	N/A
	Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that:  — is designed to allow the user to listen to audio or	工活放测设份 LCS Testing Lab
	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.	th Lab LCS To
	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.	工活检测 提份 LCS Tosting Lab
	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;	VST CSTOS.
	NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be	



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#### **Attachment No.1**

	Attachment No.1				
- mi AQ Y	IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
Los	The second second	100	Les		
	professional equipment.				
	<ul> <li>hearing aid equipment and other devices for assistive listening;</li> <li>the following type of analogue personal music players:</li> <li>long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and</li> <li>cassette player/recorder;</li> </ul>				
	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.	Les Tost	设价 ng Lab		
	<ul> <li>a player while connected to an external amplifier that does not allow the user to walk around while in use.</li> </ul>				
	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.				
	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	立语检测股份 LCS Testing Lab	立语检测 LCS Test		
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz		N/A		
立立	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.	立形检测	股份 ng Lab		
10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A		
10.6.2.1	General		N/A		
	This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3.				
	For classifying the acoustic output LAeq, T,				



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#### **Attachment No.1**

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
res ,	-102 108	Tos	I Les
	measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.  For music where the average sound pressure (long term <i>L</i> Aeq, <i>T</i> ) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song.  NOTE Classical music, acoustic music and broadcast typically has an average sound pressure.		股份
	broadcast typically has an average sound pressure (long term <i>L</i> Aeq, <i>T</i> ) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit.  For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.	Tirk the little of the little	ng Lab
0.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)	11 位 测度 fri	N/A
LCS Testing Lo	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 $L$ Aeq, $T$ acoustic output shall be $\leq$ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1.	LCS Testing Lab	LCSTO
	<ul> <li>for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.</li> <li>The RS1 limits will be updated for all devices as</li> </ul>	LCS Test	股份 ng Lab
10000	per 10.6.3.2.  RS2 limits (to be superseded, see 10.6.3.3)		h 1 / 5
10.6.2.3	RS2 is a class 2 acoustic energy source that does not exceed the following:  – for equipment provided as a package (player with its listening device), and with a proprietary		N/A



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#### **Attachment No.1**

- ar 4	IEC 62368-1	- 1872 (f)	
Clause Requirement + Test Result - Remark			Verdict
LCSTEST	(E) Tuo Test	LCO Test	LUSTE
NEG T	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.	TEATICS TOST	股份 ng Lab
10.6.2.4	RS3 limits  RS3 is a class 3 acoustic energy source that exceeds RS2 limits.		N/A
10.6.3	Classification of devices (new)		N/A
10.6.3.1	General		N/A
	Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	<b>工绘测股份</b>	7
10.6.3.2	RS1 limits (new)  RS1 is a class 1 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <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 interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	LCS Testines  LCS Testines  LCS Testines	N/A
10.6.3.3	RS2 limits (new)		N/A
	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		



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THE H	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
Los	The state of the s	100	100	
10.6.4	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.	T T T T T T LCS Test	股份 19 Lab	
10.6.4	Requirements for maximum sound exposure		N/A	
10.6.4.1	Measurement methods  All volume controls shall be turned to maximum during tests.  Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.		N/A	
10.6.4.2	Protection of persons		N/A	
	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.		立 Tindi LCS Tes	
	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 (2011-01) - 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 follong periods." or equivalent wording	LCS Test	股份 ng Lab	



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#### **Attachment No.1**

A TILL RE	IEC 62368-1	Samuel 19	III: A
Clause	Requirement + Test	Result - Remark	Verdict
100	TES ICO	LCo	Too Too
	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.	TET LOST	im 股份 est hg Lab
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.		
	NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off.		
	A <b>skilled person</b> shall not be unintentionally exposed to RS3.	立语检测股份	立讯检测
10.6.5	Requirements for dose-based systems	LCS,	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 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.		元列 技价 esting Lab
	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		



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#### **Attachment No.1**

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

	work, transportation, concerts, clubs, cine	ema, car	
	races, etc.		
10.6.5.2	Dose-based warning and requirements	5	N/A
	When a dose of 100 % CSD is reached, a	and at	
	least at every 100 % further increase of C		
	device shall warn the user and require an		
	acknowledgement. In case the user does		
	acknowledge, the output level shall auton		
	decrease to compliance with class RS1.		
	The warning shall at least clearly indicate	that	~ 测 股份
	listening above 100 % CSD leads to the r		古语 <sup>加</sup> agLab
	hearing damage or loss.	ISK OF	CS Testing
10.6.5.3	Exposure-based requirements	1	N/A
			14/7
	With only dose-based requirements, caus		
	effect could be far separated in time, defy		
	purpose of educating users about safe lis		
	practice. In addition to dose-based require		
	a PMP shall therefore also put a limit to the	ne snort-	
	term sound level a user can listen at.		
	The exposure-based limiter (EL) shall aut	omatically	
	reduce the sound level not to exceed 100	dB(A) or	
	150 mV integrated over the past 180 s, ba	ased on	
	methodology defined in EN 50332-3.	是	上田位
	The EL settling time (time from starting le		MS TO TO
	reduction to reaching target output) shall	be 10 s or	183 100
	faster.		
	Test of EL functionality is conducted acco	ording to	
	EN 50332-3, using the limits from this cla		
	equipment provided as a package (player	with its	
	listening device), the level integrated over	r 180 s	
	shall be 100 dB or lower. For equipment p	provided	
	with a standardized connector, the unweight	<u> </u>	
	level integrated over 180 s shall be no mo		
	150 mV for an analogue interface and no	more	
	than -10 dBFS for a digital interface.	- 05	- 115
	NOTE In case the source is known not to	be music	上:用检测胶门
W61 7	(or test signal), the EL may be disabled.	esting	I Viviesting
10.6.6	Requirements for listening devices (he		N/A
10.6.6.1	Corded listening devices with analogu	e input	N/A
	With 94 dB LAeq acoustic pressure output	ut of the	
	listening device, and with the volume and		
	settings in the listening device (for examp		
	volume level control, additional sound fea		
	equalization, etc.) set to the combination		
	that maximize the measured acoustic out		
	voltage of the listening device when playi		



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可限份	·····································	62368-1	- TIII
Clause	Requirement + Test	Result - Remark	Verdict

	50332-1 shall be ≥ 75 mV.		
l	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.		
10.6.6.2	Corded listening devices with digital input		N/A
100	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $LAeq$ , $T$ acoustic output of the listening device shall be $\leq$ 100 dB with an input signal of -10 dBFS.	上ST LCS Tost	
10.6.6.3	Cordless listening devices		N/A
立讯检测股份 LCS Testing Lar	In cordless mode,  — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and  — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and  — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the $L$ Aeq, $T$ acoustic output of the listening device shall be $\leq$ 100 dB with an input signal of -10 dBFS.	N位测度份 STesting Lab	立 記 LCS Testi
10.6.6.4	Measurement method		N/A
	Measurements shall be made in accordance with EN 50332-2 as applicable.		
3	Modification to the whole document		







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The state of the s	
Clause Requirement + Test Result - Remark	Verdict

	De lis		"country" note	es in the refe	erence docume	ent according	to the following		Р
		0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2		
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2		
		5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3		
	4	5.4.2.3.2.4 Table 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	则股份	
	β." 6."	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	ting La	
		0.4.10.2.1	Note	5.4.10.2.2	Note	0.4.10.2.3	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		
		10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note		
	)	Y.4.5	Note					51 I	
4	M	odification	to Clause 1		1		,		
1	A	<b>dd</b> the follov	ving note:					ı	N/A
	ar	nd electronic	use of certain equipment is 2011/65/EU.						

5	Modification to 4.Z1	
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#### **Attachment No.1**

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

Clause	Requirement + 163t	Nesuit - Nemaik	Verdict
Les	The state of the s	100	100
4.Z1	Add the following new subclause after 4.9:  To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either		N/A
TEA IIV	as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):  a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment 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.	LCS Testi	股份 19 Lab
立讯检测股份 LCS Testing Lat	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for <b>pluggable equipment type</b> A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	立讯检测股份 LCS Testing Lab	立讯检测 LCS Test
6	Modification to 5.4.2.3.2.4		
5.4.2.3.2.4	Add the following to the end of this subclause:		N/A
	The requirement for interconnection with <b>external circuit</b> is in addition given in EN 50491-3:2009.		
7	Modification to 10.2.1		
10.2.1	Add the following to c) and d) in table 39:		N/A
	For additional requirements, see 10.5.1.		

8	Modification to 10.5.1	
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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict

Clause	Requirement + rest	Result - Remark	verdict
Cost	100	100,0	LUS
10.5.1	Add the following after the first paragraph:		N/A
	For RS 1 compliance is checked by measuremen under the following conditions:	t	
	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.  NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	LCS TOS	MB份 ii 19 Lab
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm <sup>2</sup> , at any point 10 cm from the outer surface of the apparatus.		
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	· 在检测度份	立張检測
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	Les Testins	LCS Test
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.		
9	Modification to G.7.1		
G.7.1	Add the following note:		N/A
	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.		

1	10	Modification to Bibliography	





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	份 LEC	62368-1	
Clause	Requirement + Test	Result - Remark	Verdict

	Add the following notes for the standards indicated:	N/A		
	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 60684-5. IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 61508-1 NOTE Harmonized as EN 61558-2-1. 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 61658-2-6. 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.	则支付 sira Lab		
11	ADDITION OF ANNEXES			
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)			
4.1.15	Denmark, Finland, Norway and Sweden	N/A		
立讯检测股份 LCS Testing Lal	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.	立洲協利 LCS TOS		
	The marking text in the applicable countries shall be as follows:			



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#### **Attachment No.1**

IEC 62368-1			- 14-T
Clause	Requirement + Test	Result - Remark	Verdict

Clause	rrequirement + rest	Result - Remark
4.7.3	United Kingdom	N/A
	To the end of the subclause the following is adde	ed:
	The torque test is performed using a socket-outle complying with BS 1363, and the plug part shall assessed to the relevant clauses of BS 1363. Als see Annex G.4.2 of this annex	be
5.2.2.2	Denmark	N/A
	After the 2nd paragraph add the following:	3
West in	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.	he Les Testing Lab
5.4.11.1	Finland and Sweden	N/A
and Annex G	To the end of the subclause the following is adde	ed:
	For separation of the telecommunication network from earth the following is applicable:	<b>(</b>
	If this insulation is solid, including insulation form part of a component, it shall at least consist of either	ning
立讯检测股份	two layers of thin sheet material, each of whic shall pass the electric strength test below, or	ti形位测股份
I LCS 10	one layer having a distance through insulation at least 0,4 mm, which shall pass the electric strength test below.	
	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 a creepage distances do not exist, if the componer passes the electric strength test in accordance with compliance clause below and in addition	nt vith
TE T	<ul> <li>passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplie by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),</li> </ul>	ed VST 105 Testil
	and	
	is subject to routine testing for electric strengt during manufacturing, using a test voltage of kV.	
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005,	



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

Clause	Requirement + Test	Result - Remark	Verdict
	122	1	
	subclass Y2.		
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:		
	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;		
LCS LCS	the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	LCS Testi	
	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.		
5.5.2.1	Norway		N/A
	After the 3rd paragraph the following is added:		
ar (f)	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	- 02 H)	
5.5.6	Finland, Norway and Sweden	上记述 July Lab	N/A
LCSTESS	To the end of the subclause the following is added:	CS Tes	
	Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable equipment type A</b> shall comply with G.10.1 and the test of G.10.2.		
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		
TET TOS	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:	LCS Testin	
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.		
5.6.4.2.1	Ireland and United Kingdom		N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:  — the <b>protective current rating</b> is taken to be 13 A, this being the largest rating of fuse used in the <b>mains</b> plug.		



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Clause	Requirement + Test	Result - Remark	Verdict

	152 100	
	-	
5.6.4.2.1	France	N/A
	After the indent for pluggable equipment type A,	
	the following is added:	
	- in certain cases, the <b>protective current rating</b> of	
	the circuit supplied from the mains is taken as 20 A	
	instead of 16 A.	
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	172 VB
	current over 10 A and up to and including 13 A is:	大河 (A)
We II'	1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.	The section of the se
5.6.8	Norway	N/A
	To the end of the subclause the following is added:	
	Equipment connected with an earthed mains plug is classified as <b>class I equipment</b> . See the Norway	
	marking requirement in 4.1.15. The symbol IEC	
	60417-6092, as specified in F.3.6.2, is accepted.	
5.7.6	Denmark	N/A
	To the end of the subclause the following is added:	
	The installation in struction shall be affined to the	
	The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b>	an HA
上:开始·测报 lab	exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	上田检测 <sup>版区</sup> 。
5.7.6.2	Denmark	N/A
5.7.0.2	183 100	IV/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 .  Norway and Sweden	1
5.7.7.1	Norway and Sweden	N/A
	To the end of the subclause the following is added:	
	The screen of the television distribution system is	
	normally not earthed at the entrance of the building	
	and there is normally no equipotential bonding	
	system within the building.	~ HX
	Therefore the protective earthing of the building	Tirk控测度的 LCS Testive Lab
	installation needs to be isolated from the screen of	II William I Land
	a cable distribution system.	1/3/2 rcs .
	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 manufacture of the second	
	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:	
	assume the equipment is interface to be assume.	
(21369-7)E1	Shenzhen LCS Compliance Testing Laboratory Ltd	



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#### **Attachment No.1**

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
- 竹研	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxis 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 certair frequency range (galvanic isolator, see EN 60728-11)"	al n	Me th
	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. Th insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	e Los Test	All A
	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."	上语检测股份 LCS Testing Lab	立讯位 LCSTe
	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jorda vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fa medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".		
3.5.4.2.3	United Kingdom		N/A
	Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:  An emergency stop system complying with the	LCS Test	设价 ing Lab
	requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.		



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#### **Attachment No.1**

IEC 62368-1			- 14-T
Clause	Requirement + Test	Result - Remark	Verdict

Olause	rtequirement 1 Test	Tesuit Temaik	Verdict
B.3.1 and	Ireland and United Kingdom		N/A
B.4			,
	The following is applicable:		
	_		
	To protect against excessive curre		
	circuits in the primary circuit of dire		
	<b>equipment</b> , tests according to Anr B.4 shall be conducted using an ex		
	circuit breaker complying with EN		
	rated 32A. If the equipment does n		
	tests, suitable protective devices s		- 12 H
	as an integral part of the direct plu		Lab Lab
Wel	<b>equipment</b> , until the requirements	of Annexes	I restill
- 1	B.3.1 and B.4 are met		100
G.4.2	Denmark		N/A
	To the end of the subalgues the fol	lowing is added:	
	To the end of the subclause the fol	lowing is added.	
	Supply cords of single phase applic	ances having a	
i	rated current not exceeding 13 A s		
	with a plug according to DS 60884	-2-D1:2011.	
	CLASS I EQUIPMENT provided wi		
	with earth contacts or which are int		
	used in locations where protection contact is required according to the		
	shall be provided with a plug in acc		可怜那
	standard sheet DK 2-1a or DK 2-5a		II Testi
	100	TC2	TOS.
	If a single-phase equipment having		
	CURRENT exceeding 13 A or if a p		
	equipment is provided with a suppl		
	plug, this plug shall be in accordan		
	standard sheets DK 6-1a in DS 608 60309-2.	884-2-D1 OF EN	
	00309-2.		
	Mains socket outlets intended for p	providing power	
	to Class II apparatus with a rated of		
	shall be in accordance DS 60884-2	2-D1:2011	
	standard sheet DKA 1-4a.	105	115
	会测报· <sup>77</sup>	11 11 11 11 11 11 11 11 11 11 11 11 11	立讯检测设份 LCS Testing Lab
	Other current rating socket outlets	Shall be in	Till Tasting Lab
	compliance with Standard Sheet D or DKA 1-1c.	KA 1-3a	LCS
	OF BIXA 1 16.		
	Mains socket-outlets with earth sha	all be in	
	compliance with DS 60884-2-D1:20		
	Standard Sheet DK 1-3a, DK 1-1c,	DK1-1d, DK 1-	
	5a or DK 1-7a		
	Justification:		
		2 62	
	Heavy Current Regulations, Section	III OC	



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#### **Attachment No.1**

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

G.4.2	United Kingdom		N/A
	To the end of the subclause the following is added:		
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the		
	requirements of clauses 22.2 and 23 also apply.		正份
G.7.1	United Kingdom	IS TH位海	N/A
	To the first paragraph the following is added:	TEA ICO	
	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.		
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	上讯检测股份	立讯检测
G.7.1	Ireland	CS 1	N/A
<b>G</b>	To the first paragraph the following is added:  Apparatus which is fitted with a flexible cable or		
	cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the		
	recognition of a standard of another Member State which is equivalent to the relevant Irish Standard		
	Iroland and Huitad Kinadam		N/A
G.7.2	Ireland and United Kingdom	A lines	
G.7.2	To the first paragraph the following is added:  A power supply cord with a conductor of 1,25 mm <sup>2</sup>	LCS TOST	
G.7.2	To the first paragraph the following is added:	LCS Tosti	





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#### **Attachment No.1**

IEC 62368-1			- to 31
Clause	Requirement + Test	Result - Remark	Verdict

10.5.2	Germany	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.	TST TESTI G 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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### **Attachment No.1**

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I CS Testing L	IEC 62368-1		I CS Test
Clause	Requirement + Test	Result - Remark	Verdict

Type of flexible cord	Code designation		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	是(fi
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	
Rubber insulated cords			-
Braided cord	60245 IEC 51	H03RT-F	
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
Cords having high flexibility			7 16
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	LCS Te
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H	
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	
Cords insulated and sheathed with halogen- free thermoplastic compounds			
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F	
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F	



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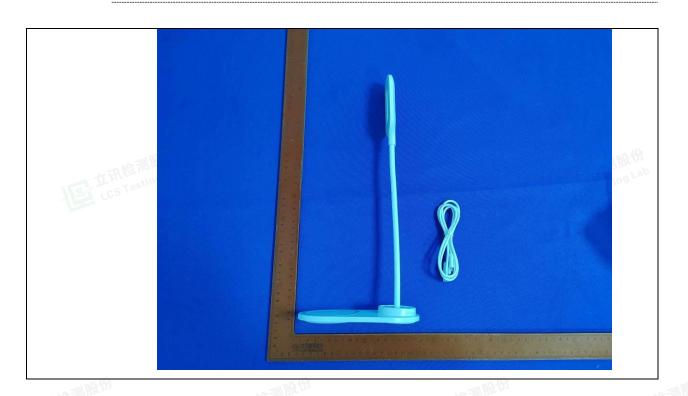


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**Attachment No.2** 

**External View** Details of:



**External View** Details of:





Shenzhen LCS Compliance Testing Laboratory Ltd.

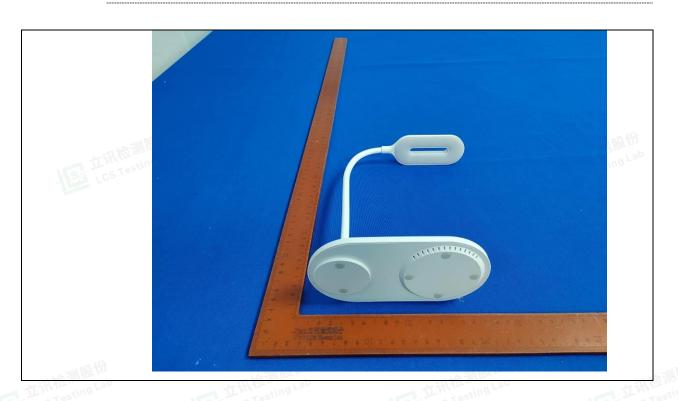
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China



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Details of: External View



Details of: External View





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Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

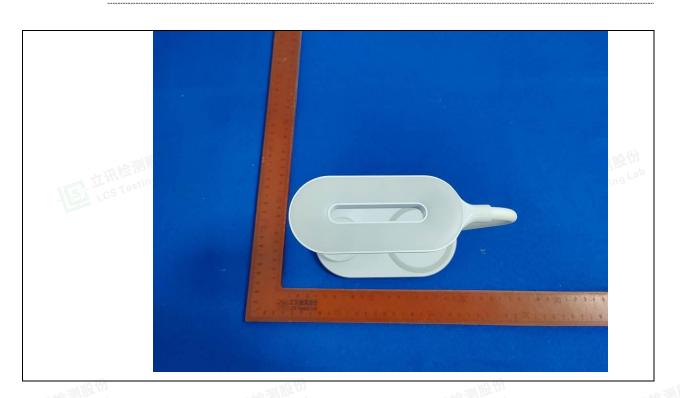


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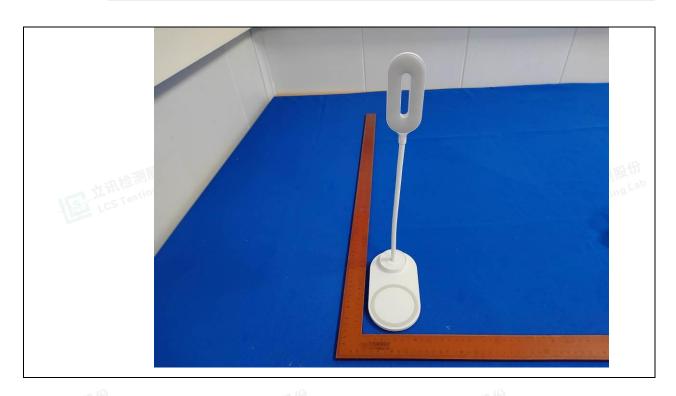
Report No.: LCSA07194067S

**Attachment No.2** 

Details of: External View



Details of: External View





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**Attachment No.2** 

Details of: External View



Details of: External View









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Attachment No.2

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Details of: External View



Details of: External View





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Details of: Internal view



Details of: Internal view





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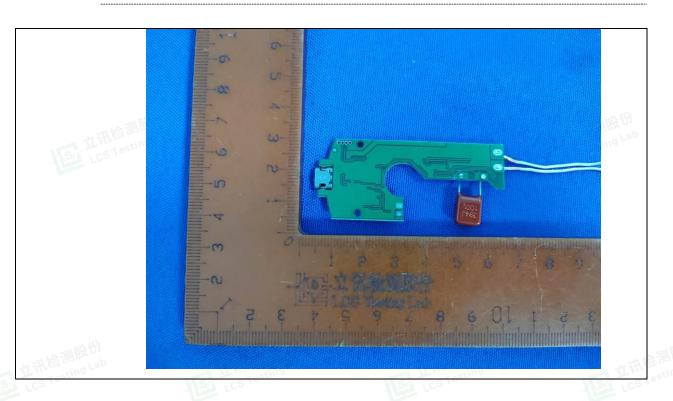
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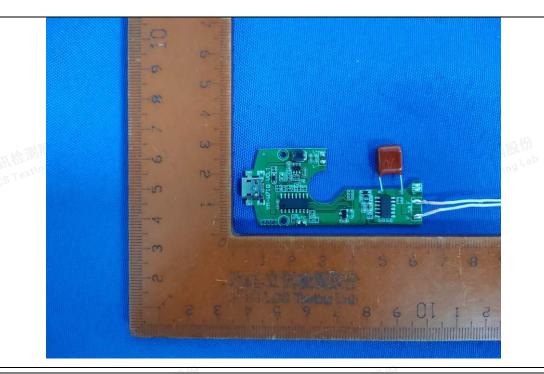
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Details of: PCB view



Details of: PCB view





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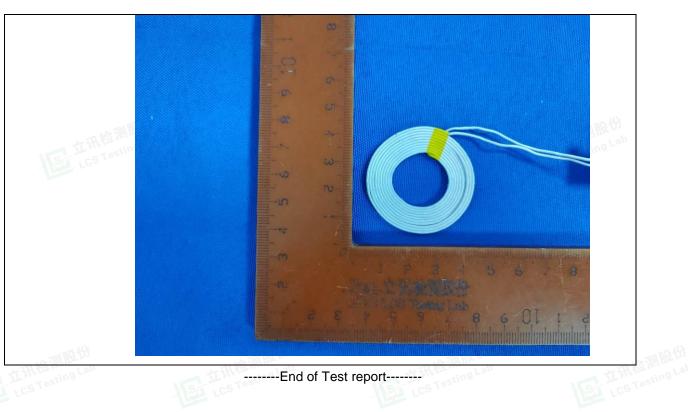
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**Attachment No.2** 

Winding view Details of:



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









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