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TEST REPORT EN 62368-1

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

Report Number....: LCSA040323264S001

Date of issue: 2023-06-06

Total number of pages: 78

preparing the Report::

Name of Testing Laboratory Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

Kowloon, Hong Kong

Test specification:

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

Test procedure.....: Type test

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

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

Test Report Form No.....: IEC62368_1E

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

Master TRF: Dated 2022-04-14

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

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

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Test item description:	Hand warmer power bank
------------------------	------------------------

 Trade Mark(s)
 N/A

 Manufacturer
 114628

Model/Type reference: MO6949

Ratings Type-C input: 5V=2A

Type-C output: 5V==2A; USB-A output: 5V==2A

Battery: 3.7VDC, 4000mAh, 14.8Wh

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

1- 141 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L 44 1 L 1 2 L	1- 441,122 - 1 200
☐ Testing Laboratory:	Shenzhen LCS Compliance Testing Laboratory Ltd.	
Testing location/ address:	Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China	
Prepared by:	Michael Feng Project Handler	Michael Forg
Checked by:	Terry Zhu Reviewer	Jemy Vm
Approved by:	Hart Qiu Technical Director	Hut Vi











List of Attachments (including a total number of pages in each attachment): Attachment No. 1: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES. - Attachment No. 2: Photo Documentation Summary of testing: **Testing location:** Tests performed (name of test and test clause): Shenzhen LCS Compliance Testing Laboratory Ltd. **Electrical safety:** Room 101, 201, Building A and Room 301, Building EN IEC 62368-1:2020+A11:2020 C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China Summary of compliance with National Differences (List of countries addressed): ☐ The product fulfils the requirements of EN IEC 62368-1:2020+A11:2020 (insert standard number and edition and delete the text in parenthesis, leave it blank or delete the whole sentence, if not applicable) Use of uncertainty of measurement for decisions on conformity (decision rule): No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method"). Other:... (to be specified, for example when required by the standard or client, or if national accreditation requirements apply) Information on uncertainty of measurement: The uncertainties of measurement are calculated by the laboratory based on application of criteria given

by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.

IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer.

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



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Copy of marking plate:

The artwork below may be only a draft.

Type-C input: DC 5V === 2A
Type-C output: DC 5V === 2A
USB-A output: DC 5V === 2A
Capacity:4000mAh/14.8Wh
PO4100111709
Made in China

MOB/MO6949 PO BOX 644 6710 BP(NL)





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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. Since similar label used, only label for models above listed to represent other similar ones.

五式用检测股份 LCS Testing Lab YST 立讯检测股份 LCS Testing Lab













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Test item particulars:	四 拾 测	股份
Product group:		ouilt-in component
Classification of use by:	☑ Ordinary person☑ Instructed person☑ Skilled person	Children likely present
Supply connection::	☐ AC mains ☐ not mains connected ☐ ES1 ☐ E	
Supply tolerance:	+10%/-10% +20%/-15%	ES2 ☐ ES3
Supply connection – type:		t type A - nable supply cord
	appliance of direct plug- pluggable equipmen non-detach appliance of	-in t type B - nable supply cord
	permanent connection mating connector other: Not directly co	on .
Considered current rating of protective device:		ouilding
Equipment mobility:	☐ direct plug-in ☐ s ☐ wall/ceiling-mounted	and-held ⊠ transportable tationary ☐ for building-in ☐ SRME/rack-mounted
Overvoltage category (OVC)::		OVC II OVC III other: Not directly connected to
Class of equipment:	☐ Class I ☐ C	Class II
Special installation location:	N/A□ re□ outdoor location	estricted access area
Pollution degree (PD):	☐ PD 1 ☐ P	PD 2 PD 3
$\label{eq:manufacturer} \textbf{Manufacturer's specified T}_{ma}:$	25 °C	imum °C
IP protection class:		P
Power systems:	☐ TN ☐ TT ☐ IT ☐ IT ☐ IT	T - V L-L
Altitude during operation (m):	\boxtimes 2000 m or less \square	m
Altitude of test laboratory (m):	\boxtimes 500 m or less \square	m
Mass of equipment (kg)	Approx 0.13 kg	



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Pos	ssible test case verdicts:	Title Tracting Lab	立河和
- tes	st case does not apply to the test object:	N/A	
- tes	st object does meet the requirement:	P (Pass)	
- tes	st object does not meet the requirement:	F (Fail)	
Tes	ting:		
Date	e of receipt of test item	2023-05-31	
Date	e (s) of performance of tests:	2023-05-31 to 2023-06-06	
Ger	neral remarks:	-mREM	一加股份
	ee Enclosure #)" refers to additional informatio ee appended table)" refers to a table appended		识的 Lab CS Testing Lab
Thr	oughout this report a ☐ comma / ⊠ point	is used as the decimal separator.	
Mar	nufacturer's Declaration per sub-clause 4.2.	5 of IECEE 02:	
included sam repr	application for obtaining a CB Test Certificate udes more than one factory location and a laration from the Manufacturer stating that the hple(s) submitted for evaluation is (are) resentative of the products from each factory been provided	☐ Yes ☐ Not applicable	
Who	en differences exist; they shall be identified	in the General product information sec	tion.
Nan	ne and address of factory (ies):	Same as manufacturer	100
Ger	neral product information and other remark	s:	
1.	The product was submitted and tested for use temperature (Tma) of 25°C.	e at the manufacturer's recommended an	nbient
2.	Instructions and equipment marking related to the country in which the equipment is to be so		acceptable in
3.	Battery call is already IEC 62133-2: 2017 app	roved.	
4.	The product input were conform to PS2 and I	ES1. Till he sting Lab	

Remark: This report is based on LCS report LCSA040323264S to issue a new test report and certificate. only changes as below:

1. Add one optional main board, details see attachment 2 photo documentation.





Clause	Possible Hazard			
 5	Electrically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R
ES1: Max. +5VDC input	Ordinary	N/A	N/A	N/A
ES1: Battery (4.2V)	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire			
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S
PS2: <100 Watt circuit (All circuit and battery)	Plastic enclosure	Equipment safeguards (no ignition)	V-0 or better	N/A
PS2: <100 Watt circuit (All circuit and battery)	PCB	Equipment safeguards (no ignition)	V-1 or better	N/A
PS2: <100 Watt circuit (All circuit and battery)	Combustible materials within equipment	Equipment safeguards (no ignition)	V-2 or better	N/A
7	Injury caused by hazardous s	substances		
Class and Energy Source	Body Part	Safeguards		
(e.g. Ozone)	(e.g., Skilled)	В	S	R
Ordinary	Internal Lithium Battery	Comply	N/A	N/A
		with Clause		
		Annex M		
3	Mechanically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Edges and corners	Ordinary	N/A	N/A	N/A
MS1: Mass of the unit (<7kg)	Ordinary	N/A	N/A	N/A
9	Thermal burn			
Class and Energy Source	Body Part		Safeguards	
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R
ΓS1: Enclosure	Ordinary	N/A	N/A	N/A
10	Radiation			
Class and Energy Source	Body Part	Safeguards		
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R
RS1: Indicating light (LED)	Ordinary	N/A	N/A	N/A



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

ENERGY SOURCE DIAGRAM

Optional. Manufacturers are to provide the energy sources diagram identify declared energy sources and identifying the demarcations are between power sources. Recommend diagram be provided included in power supply and multipart systems.

Insert diagram below. Example diagram designs are; Block diagrams; image(s) with layered data; mechanical drawings

⊠ ES ⋈ PS ⋈ MS ⋈ TS ⋈ RS

IST 工资检测股份 LCS Testing Lab

IST 立洲股份 LCS Testing Lab LCS Testing Lab











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	IEC 623	368-1	
Clause	Requirement + Test	Result - Remark	Verdict
Liff Ting	Lab Tiff Ting Lab	立语型 sing Lab	立讯和
TASI		TASTILL	11054

4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	Р
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	P 服份 ng Lab
4.1.3	Equipment design and construction	Evaluation of safeguards regarding limiting the outputs to fulfill ES1 and protection in regard to risk of spread of fire, mechanical and thermal burn injury considered.	Р
4.1.4	Specified ambient temperature for outdoor use (°C)	Indoor use only	N/A
4.1.5	Constructions and components not specifically covered	-11 EG (f)	N/A
4.1.8	Liquids and liquid filled components (LFC)	立语 Washing Lab	N/A
4.1.15	Markings and instructions	(See Annex F)	P
4.4.3	Safeguard robustness		Р
4.4.3.1	General		Р
4.4.3.2	Steady force tests	(See Annex T.4, T.5)	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	VIST LCS Test	N/A
	Glass impact test (1J)		N/A
	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness		N/A
4.4.4	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks	- ac 43	N/A
4.5	Explosion	大洲拉洲 Lab	P



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions.	Р
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	Р
	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	Fixing of conductors		Р
	Fix conductors not to defeat a safeguard	Only ES1 for internal circuits, no safeguard affected by conductor displacement.	P 服份
一二工工	Compliance is checked by test:	立语标识	N/A
4.7	Equipment for direct insertion into mains socket	-outlets	N/A
4.7.2	Mains plug part complies with relevant standard:	No such apparatus	N/A
4.7.3	Torque (Nm):		N/A
4.8	Equipment containing coin/button cell batteries		N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard:		N/A
4.8.3	Battery compartment door/cover construction	加股份	N/A
Liff Testing La	Open torque test	工讯型 Asting Lab	N/A
4.8.4.2	Stress relief test	I res .	N/A
4.8.4.3	Battery replacement test		N/A
4.8.4.4	Drop test		N/A
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test		N/A
4.8.5	Compliance		N/A
	30N force test with test probe		N/A
	20N force test with test hook	n tail	N/A
4.9	Likelihood of fire or shock due to entry of condu	ctive object	Р
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	Classification and limits of electrical energy sources		Р
5.2.2	ES1, ES2 and ES3 limits	ES1	Р
5.2.2.2	Steady-state voltage and current limits	(See appended table 5.2)	- Partie



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.2.2.3	Capacitance limits:	Tilling Lab	N/A
5.2.2.4	Single pulse limits:	No such single pulses generated in the EUT or applied to it.	N/A
5.2.2.5	Limits for repetitive pulses:	No such repetitive pulses within the EUT	N/A
5.2.2.6	Ringing signals	No such ringing signals within the EUT	N/A
5.2.2.7	Audio signals		N/A
5.3	Protection against electrical energy sources	二岭 测	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	Only ES1 circuits within the equipment.	N/A
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits		N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors		N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	Only ES1 circuit can be accessed for this product	N/A
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2	Contact requirements	- 113	N/A
识检测度的	Test with test probe from Annex V	一· · · · · · · · · · · · · · · · · · ·	-
5.3.2.2 a)	Air gap – electric strength test potential (V)	LCS Testing L	N/A
5.3.2.2 b)	Air gap – distance (mm):		N/A
5.3.2.3	Compliance		N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements		Р
5.4.1.2	Properties of insulating material	No insulation as a safeguard.	Р
5.4.1.3	Material is non-hygroscopic	No hygroscopic material used.	Р
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	股份P ng Lab
5.4.1.5	Pollution degrees	2 IST LCS Test	Р
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2 is applied. No insulating compound applied (however see 5.5.4).	N/A
5.4.1.5.3	Thermal cycling test	See above	N/A
5.4.1.6	Insulation in transformers with varying dimensions	No such transformer within the EUT	N/A
5.4.1.7	Insulation in circuits generating starting pulses	No such starting pulses within the EUT	N/A
5.4.1.8	Determination of working voltage:	上语检测度 Dab	N/A



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Olavia	IEC 62368-1	Decult Deviced	Marine
Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.9	Insulating surfaces	ICS Testing L	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	1	N/A
5.4.1.10.2	Vicat test		N/A
5.4.1.10.3	Ball pressure test		N/A
5.4.2	Clearances	Class III equipment, only functional insulations were considered. See also Annex B.4.4 for short circuit of functional insulation.	N/A
5.4.2.1	General requirements	立语称	N/A
1/20	Clearances in circuits connected to AC Mains, Alternative method	130 reg	N/A
5.4.2.2	Procedure 1 for determining clearance		N/A
	Temporary overvoltage:		_
5.4.2.3	Procedure 2 for determining clearance		N/A
5.4.2.3.2.2	a.c. mains transient voltage:		_
5.4.2.3.2.3	d.c. mains transient voltage		_
5.4.2.3.2.4	External circuit transient voltage	公测股份	_
5.4.2.3.2.5	Transient voltage determined by measurement:	II illianing Lab	_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	1/2	N/A
5.4.2.5	Multiplication factors for clearances and test voltages		N/A
5.4.2.6	Clearance measurement		N/A
5.4.3	Creepage distances		N/A
5.4.3.1	General		N/A
5.4.3.3	Material group:	IIIa&IIIb	_
5.4.3.4	Creepage distances measurement:	立语检测	N/A
5.4.4	Solid insulation	131 rcs ,	N/A
5.4.4.1	General requirements		N/A
5.4.4.2	Minimum distance through insulation:		N/A
5.4.4.3	Insulating compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices		N/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	拉测股价	N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.6.2	Separable thin sheet material	I Tillian Len	N/A
	Number of layers (pcs):	7	N/A
5.4.4.6.3	Non-separable thin sheet material	No such insulation used within the EUT	N/A
	Number of layers (pcs):		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:		N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components	- 111	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)	Titles Tost	N/A
	Alternative by electric strength test, tested voltage (V), K_R		N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
5.4.5.3	Insulation resistance (MΩ)		N/A
are Hi	Electric strength test	an th	N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard	No such insulation of internal wire as part of supplementary safeguard.	N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning		N/A
	Relative humidity (%), temperature (°C), duration (h):		_
5.4.9	Electric strength test		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	一 女讯检测	N/A
5.4.10	Safeguards against transient voltages from external circuits	-UST LCS TO	N/A
5.4.10.1	Parts and circuits separated from external circuits		N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test:		N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test:	四檢測股份	N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.11	Separation between external circuits and earth	No such connections for external circuit applied within the EUT	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	No such connections to external circuit as above.	N/A
5.4.11.2	Requirements		N/A
	SPDs bridge separation between external circuit and earth		N/A
	Rated operating voltage U _{op} (V):		_
	Nominal voltage U _{peak} (V):		_
Ne I	Max increase due to variation ΔU _{sp} :	IST ICS Test	_
	Max increase due to ageing ΔUsa:	150	_
5.4.11.3	Test method and compliance:		N/A
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid:		N/A
5.4.12.3	Compatibility of an insulating liquid:		N/A
5.4.12.4	Container for insulating liquid:		N/A
5.5	Components as safeguards	立语位 Wing Lab	N/A
5.5.1	General	rcs to	N/A
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:		N/A
5.5.3	Transformers		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		N/A
	RCD rated residual operating current (mA):		_
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors		N/A
5.6	Protective conductor	Class III equipment	N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.6.2	Requirement for protective conductors	Till Tosting Lab	N/A
5.6.2.1	General requirements	12	N/A
5.6.2.2	Colour of insulation		N/A
5.6.3	Requirement for protective earthing conductors		N/A
	Protective earthing conductor size (mm²):		_
	Protective earthing conductor serving as a reinforced safeguard		N/A
	Protective earthing conductor serving as a double safeguard		N/A
5.6.4	Requirements for protective bonding conductors	THAN	N/A
5.6.4.1	Protective bonding conductors	100	N/A
	Protective bonding conductor size (mm²):		_
5.6.4.2	Protective current rating (A):		N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm):		N/A
ar d	Terminal size for connecting protective bonding conductors (mm):	an (4)	N/A
5.6.5.2	Corrosion	古讯检测 Lab	N/A
5.6.6	Resistance of the protective bonding system	Los Tes	N/A
5.6.6.1	Requirements		N/A
5.6.6.2	Test Method:		N/A
5.6.6.3	Resistance (Ω) or voltage drop:		N/A
5.6.7	Reliable connection of a protective earthing conductor		N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm²):		N/A
4 7	Class II with functional earthing marking:	女讯检测	N/A
1/20	Appliance inlet cl & cr (mm):	LCS 1CS	N/A
5.7	Prospective touch voltage, touch current and pro	otective conductor current	N/A
5.7.2	Measuring devices and networks		N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections		N/A
5.7.4	Unearthed accessible parts:	and the	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.7.5	Earthed accessible conductive parts:	Tilling Leb	N/A
5.7.6	Requirements when touch current exceeds ES2 limits		N/A
	Protective conductor current (mA):		N/A
	Instructional Safeguard:		N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits		N/A
5.7.7.1	Touch current from coaxial cables		N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	古田位制	N/A
5.7.8	Summation of touch currents from external circuits	LCS Tess	N/A
	a) Equipment connected to earthed external circuits, current (mA):		N/A
	b) Equipment connected to unearthed external circuits, current (mA):		N/A
5.8	Backfeed safeguard in battery backed up supplie	es	N/A
	Mains terminal ES		N/A
	Air gap (mm):		N/A
可於測股	力	元於測股份	7.45
2.44 E326 C	AU ELECT L'AU	- 1 A B 1 A V	- 47 TH P

6	ELECTRICALLY- CAUSED FIRE		Ps Tes
6.2	Classification of PS and PIS		Р
6.2.2	Power source circuit classifications	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources		Р
6.2.3.1	Arcing PIS		N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	Р
6.3	Safeguards against fire under normal operating and abnormal operating conditions		Р
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	No ignition and no such temperature attained within the equipment. (See appended table 5.4.1.4, 6.3.2, 9.0, B.2.6)	RE P
	Combustible materials outside fire enclosure:		N/A
6.4	Safeguards against fire under single fault condition	ons	Р
6.4.1	Safeguard method	Method of "control of fire spread" is used.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	an Mili	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	LCS Testing La	N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions:		N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits		Р
6.4.5.2	Supplementary safeguards	Compliance detailed as follows: - Printed board: rated min. V-1 - All other components: at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g).	P 股份 ng Lab
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	V-0 fire enclosure material used.	N/A
6.4.7.2	Separation by distance	V-0 fire enclosure material used.	N/A
6.4.7.3	Separation by a fire barrier	No specific barrier provided.	N/A
6.4.8	Fire enclosures and fire barriers	See below	Р
6.4.8.2	Fire enclosure and fire barrier material properties	V-0 material is used for the fire enclosure	Р
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	V-0 material is used for the fire enclosure	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	n to W	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	MST CS Test	N/A
6.4.8.3.2	Fire barrier dimensions	1	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
	Openings dimensions (mm):		N/A
	Flammability tests for the bottom of a fire enclosure		N/A
ar H	Instructional Safeguard:	art 44	N/A
6.4.8.3.5	Side openings and properties	· 语意测 Lab	N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
LY Testing	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):	1	N/A	
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:	V-0 material is used for the fire enclosure	Р	
6.4.9	Flammability of insulating liquid:		N/A	
6.5	Internal and external wiring		Р	
6.5.1	General requirements	Certified lead wires used. (see appended table 4.1.2)	P	
6.5.2	Requirements for interconnection to building wiring	VST IR检测	N/A	
6.5.3	Internal wiring size (mm²) for socket-outlets:	122	N/A	
6.6	Safeguards against fire due to the connection to	additional equipment	Р	

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	
7.2	Reduction of exposure to hazardous substances	Р
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	
识检测	Personal safeguards and instructions:	_
7.5	Use of instructional safeguards and instructions	N/A
	Instructional safeguard (ISO 7010):	_
7.6	Batteries and their protection circuits	Р

8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classifications		Р
8.3	Safeguards against mechanical energy sources		N/A
8.4	Safeguards against parts with sharp edges and c	orners	服(P
8.4.1	Safeguards	Titles of Test	N/A
1	Instructional Safeguard:		N/A
8.4.2	Sharp edges or corners	Edges and corners of the enclosure are rounded.	Р
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts		N/A
	MS2 or MS3 part required to be accessible for the function of the equipment	115	N/A
温检测	Moving MS3 parts only accessible to skilled person	上面检测股 ⁷⁷	N/A



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
8.5.2	Instructional safeguard:	Tillian Lab	N/A
8.5.4	Special categories of equipment containing moving parts	12	N/A
8.5.4.1	General		N/A
8.5.4.2	Equipment containing work cells with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work cell		N/A
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system		N/A
8.5.4.2.2.2	Visual indicator	上语位 ^训	N/A
8.5.4.2.3	Emergency stop system	15 LCS Test	N/A
	Maximum stopping distance from the point of activation (m):		N/A
	Space between end point and nearest fixed mechanical part (mm):		N/A
8.5.4.2.4	Endurance requirements		N/A
	Mechanical system subjected to 100 000 cycles of operation		N/A
-mi 88 4	- Mechanical function check and visual inspection	TO THE HA	N/A
Liff Tasting L	- Cable assembly	工语位 Lab	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media	Les	N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:		N/A
8.5.4.3.3	Disconnection from the supply		N/A
8.5.4.3.4	Cut type and test force (N):		N/A
8.5.4.3.5	Compliance		N/A
8.5.5	High pressure lamps	Tr. As -	N/A
VS! I	Explosion test	US TIME	N/A
8.5.5.3	Glass particles dimensions (mm):	1	N/A
8.6	Stability of equipment		N/A
8.6.1	General		N/A
	Instructional safeguard:		N/A
8.6.2	Static stability		N/A
8.6.2.2	Static stability test:		N/A
8.6.2.3	Downward force test	an 199	N/A





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
8.6.3	Relocation stability	Till Testing Lab	N/A
	Wheels diameter (mm):	1	_
	Tilt test		N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test:		N/A
8.7	Equipment mounted to wall, ceiling or other struc	eture	N/A
8.7.1	Mount means type:	Not such equipment.	N/A
8.7.2	Test methods		N/A
	Test 1, additional downwards force (N):	女话检测	N/A
1/80	Test 2, number of attachment points and test force (N)	- Isa res	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
8.8.2	Handle strength test		N/A
-74	Number of handles	-a.llik	_
识检测限	Force applied (N)	大语意测度 Lab	かが
8.9	Wheels or casters attachment requirements	LCSTOSTIN	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		N/A
8.10.3	Cart, stand or carrier loading test		N/A
	Loading force applied (N)		N/A
8.10.4	Cart, stand or carrier impact test	女讯检测	N/A
8.10.5	Mechanical stability	LCS 100	N/A
	Force applied (N):		_
8.10.6	Thermoplastic temperature stability		N/A
8.11	Mounting means for slide-rail mounted equipmen	t (SRME)	N/A
8.11.1	General	Not such equipment.	N/A
8.11.2	Requirements for slide rails		N/A
	Instructional Safeguard:		N/A
8.11.3	Mechanical strength test	14 测度分	N/A



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	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
8.11.3.1	Downward force test, force (N) applied:	CS Testing Leb	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		Р
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits		Р
9.3.1	Touch temperatures of accessible parts:	(See appended table 5.4.1.4,	Р
		9.3, B.1.5, B.2.6)	
9.3.2	Test method and compliance		Р
9.4	Safeguards against thermal energy sources		Р
9.5	Requirements for safeguards		Р
9.5.1	Equipment safeguard		Р
9.5.2	Instructional safeguard:		N/A
9.6	Requirements for wireless power transmitters		N/A
9.6.1	General		N/A
9.6.2	Specification of the foreign objects		N/A
9.6.3	Test method and compliance:		N/A

10	RADIATION	Р
10.2	Radiation energy source classification	
10.2.1	General classification RS1	Р
	Lasers No laser radiation	检测 —
1/9/	Lamps and lamp systems:	Test
	Image projectors:	_
	X-Ray:	_
	Personal music player:	_
10.3	Safeguards against laser radiation	N/A
	The standard(s) equipment containing laser(s) comply:	N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (includ LED types)	ing P



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
10.4.1	General requirements	The LCD only used for indicating	I I P
	Instructional safeguard provided for accessible radiation level needs to exceed		N/A
	Risk group marking and location:		N/A
	Information for safe operation and installation		N/A
10.4.2	Requirements for enclosures		N/A
	UV radiation exposure:		N/A
10.4.3	Instructional safeguard:		N/A
10.5	Safeguards against X-radiation	立语位为	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	1	N/A
10.6.1	General	Size is not suitable to be carried in a clothing pocket.	N/A
10.6.2	Classification	. ar. 49	N/A
Ening ME	Acoustic output LAeq,T, dB(A)	古河拉河 ng Lab	N/A
CS Tes	Unweighted RMS output voltage (mV)	rca Jean	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
	30 s integrated exposure level (MEL30)		N/A
	Warning for MEL ≥ 100 dB(A)	The same	N/A
10.6.4	Measurement methods	Till Till Too Test	mg P
10.6.5	Protection of persons	100	Р
	Instructional safeguards:		Р
10.6.6	Requirements for listening devices (headphones, earphones, etc.)		N/A
10.6.6.1	Corded listening devices with analogue input		N/A
	Listening device input voltage (mV):		N/A
10.6.6.2	Corded listening devices with digital input		N/A
SA IIII:	Max. acoustic output L _{Aeq,T} , dB(A)	·····································	N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
10.6.6.3	Cordless listening devices	I CS Testing Lab	N/A
	Max. acoustic output L _{Aeq,T} , dB(A)		N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Р
B.1	General		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:	The man	N/A
184 L	Audio Amplifiers and equipment with audio amplifiers:	TEA LCS Tes	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
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	The construction of the connector makes it not likely happen to charge the battery reversely.	Р
B.3.7	Audio amplifier abnormal operating conditions		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	(See appended table B.3, B.4)	P 服份
B.4	Simulated single fault conditions	正洲位	ng LP
B.4.1	General	- 1ce is	Р
B.4.2	Temperature controlling device		N/A
B.4.3	Blocked motor test		Р
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



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B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4 for faults on electronic components)	P
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.	展作P ng Lab
B.4.9	Battery charging and discharging under single fault conditions	(See appended table B.4)	Р
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:	上讯检测度 ^[7]	N/A
C.2.2	Mounting of test samples	LCS Testino	N/A
C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINI	NG AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio	signals	N/A
184	Maximum non-clipped output power (W):	Por real	
	Rated load impedance (Ω):		_
	Open-circuit output voltage (V):		_
	Instructional safeguard:		_
E.2	Audio amplifier normal operating conditions		N/A
	Audio signal source type:		_
= 1	Audio output power (W):		_
可怜测股	Audio output voltage (V):	可於測股份	



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
CS Testing Lo	Rated load impedance (Ω):	Lilling Lab	- SAU 1897 I
	Requirements for temperature measurement	1	N/A
E.3	Audio amplifier abnormal operating conditions		N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND I SAFEGUARDS	NSTRUCTIONAL	Р
F.1	General		Р
	Language:	English version provided and checked.	_
F.2	Letter symbols and graphical symbols		股份P
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	₀∘ N/A
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	The required marking is located on the product is easily visible.	P
F.3.2	Equipment identification markings	See copy of marking plate.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate.	
F.3.2.2	Model identification:	See page 2 for details.	
F.3.3	Equipment rating markings	See the following details.	Р
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains		Р
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.	- 10
F.3.3.5	Rated frequency:	上羽检测	BE DI
F.3.3.6	Rated current or rated power:	See copy of marking plate.	
F.3.3.7	Equipment with multiple supply connections	Only one mains supply connection provided.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices	See copy of marking plate.	Р
F.3.5.1	Mains appliance outlet and socket-outlet markings	No such devices on the equipment	N/A
F.3.5.2	Switch position identification marking:	No switch used.	N/A





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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
F.3.5.3	Replacement fuse identification and rating markings	No such component used.	N/A
	Instructional safeguards for neutral fuse:		N/A
F.3.5.4	Replacement battery identification marking:		N/A
F.3.5.5	Neutral conductor terminal	See below.	N/A
F.3.5.6	Terminal marking location	Class III equipment	N/A
F.3.6	Equipment markings related to equipment classification		N/A
F.3.6.1	Class I equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal:	工计例	N/A
F.3.6.1.2	Protective bonding conductor terminals:	100	N/A
F.3.6.2	Equipment class marking:		N/A
F.3.6.3	Functional earthing terminal marking:		N/A
F.3.7	Equipment IP rating marking	IPX0.	
F.3.8	External power supply output marking:		N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec, with the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge.	P. M.
- 1	用检测股份 tinglab	After each test, the marking remained legible.	股份 ng Lab
F.4	Instructions	Teg Ice Je	Р
	a).Information prior to installation and initial use		Р
	b).Equipment for use in locations where children not likely to be present		N/A
	c). Instructions for installation and interconnection		N/A
	d). Equipment intended for use only in restricted access area		N/A
	e). Equipment intended to be fastened in place	100	N/A
~ 本河 股	f). Instructions for audio equipment terminals	A 3111 BG 177	N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
CS Testing L	g). Protective earthing used as a safeguard	Till Inglah	N/A
	h) Protective conductor current exceeding ES2 limits	1	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
	I). Equipment containing insulating liquid		N/A
- +1	m) Installation instructions for outdoor equipment	- 共飛检測	N/A
F.5	Instructional safeguards	LCS Tes	Р
G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General	No relay used.	N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.1.3	Test method and compliance		N/A
G.2	Relays		N/A
G.2.1	Requirements	No such relay provided within the equipment.	N/A
G.2.2	Overload test	LCS Test	N/A
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance		N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs	No thermal cut-offs provided within the equipment.	N/A
	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
15 T	Thermal cut-outs tested as part of the equipment as indicated in c)	IS LESTOST	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		N/A
G.3.3	PTC thermistors	No PTC thermistor used.	N/A
G.3.4	Overcurrent protection devices	上田位 ^{加加} Lab	N/A



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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	LCS Testing Len	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	· · · · · · · · · · · · · · · · · · ·	N/A
G.5	Wound components	15 LCS Tes	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):		
. A. STILL REE!	Test temperature (°C):	· 二侧股份	_
G.5.2.3	Wound components supplied from the mains	Till Testing Lab	N/A
G.5.2.4	No insulation breakdown	100	N/A
G.5.3	Transformers		N/A
G.5.3.1	Compliance method:		N/A
	Position:		N/A
	Method of protection:		N/A
G.5.3.2	Insulation		N/A
	Protection from displacement of windings:		
G.5.3.3	Transformer overload tests	古·王位 ^河	N/A
G.5.3.3.1	Test conditions	LCS Test	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		N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:	上河检测股份	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core	LCS Testing Lab	N/A
G.5.3.4.5	Thermal cycling test and compliance		N/A
G.5.3.4.6	Partial discharge test		N/A
G.5.3.4.7	Routine test		N/A
G.5.4	Motors		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	m At M	N/A
G.5.4.4.2	Locked-rotor overload test	MST CS Test	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
are the	Maximum Temperature:	an th	N/A
G.5.4.6.3	Alternative method	在讯检测图 Lab	N/A
G.5.4.7	Motors with capacitors	rcs 163	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		N/A
G.6.2	Enamelled winding wire insulation		N/A
G.7	Mains supply cords	The same	N/A
G.7.1	General requirements	US IIII	N/A
1000	Type:	122	_
G.7.2	Cross sectional area (mm² or AWG):		N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N):		N/A
G.7.3.2.2	Strain relief mechanism failure	公测股份	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
G.7.3.2.3	Cord sheath or jacket position, distance (mm):	Till Testing Leb	N/A
G.7.3.2.4	Strain relief and cord anchorage material	15	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):		_
	Radius of curvature after test (mm):	· 由於测	_
G.7.6	Supply wiring space	15 CS Test	N/A
G.7.6.1	General requirements	133	N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements		N/A
G.7.6.2.2	Test with 8 mm strand		N/A
G.8	Varistors	1	N/A
G.8.1	General requirements		N/A
G.8.2	Safeguards against fire	and the	N/A
G.8.2.1	General	TingLab	N/A
G.8.2.2	Varistor overload test	rca les	N/A
G.8.2.3	Temporary overvoltage test		N/A
G.9	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):		_
	Manufacturers' defined drift:		_
G.9.2	Test Program		N/A
G.9.3	Compliance	立语位为	N/A
G.10	Resistors	Val real	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		N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test	THE AT	N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.11	Capacitors and RC units	Till Resting Lab	N/A
G.11.1	General requirements	1	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 _{ini,a} :		
	Routine test voltage, V _{ini, b} :	10000000000000000000000000000000000000	
G.13	Printed boards	15 I CS Test	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
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	ICS Testing L	N/A
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation:		N/A
	Number of insulation layers (pcs):		_
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2	Test method and compliance		N/A
G.14	Coating on components terminals	この位列	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		N/A
G.15.2.1	Hydrostatic pressure test		N/A
G.15.2.2	Creep resistance test	107.4A	N/A
G.15.2.3	Tubing and fittings compatibility test	上 讯 拉 测 be Lab	N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.15.2.4	Vibration test	L'Allandrah	N/A
G.15.2.5	Thermal cycling test	12	N/A
G.15.2.6	Force test		N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	,	N/A
G.16.1	Condition for fault tested is not required		N/A
	ICX with associated circuitry tested in equipment		N/A
	ICX tested separately		N/A
G.16.2	Tests	古讯检测	N/A
180 L	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	- Teg res ion	_
	Mains voltage that impulses to be superimposed on:		_
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:		_
G.16.3	Capacitor discharge test:		N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	,	N/A
H.1	General	人间段价	N/A
H.2	Method A	Till Testing Lab	N/A
H.3	Method B	100	N/A
H.3.1	Ringing signal	No telephone ringing signal generated within the equipment.	N/A
H.3.1.1	Frequency (Hz):		_
H.3.1.2	Voltage (V):		_
H.3.1.3	Cadence; time (s) and voltage (V):		_
H.3.1.4	Single fault current (mA):		_
H.3.2	Tripping device and monitoring voltage	女话检测	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage	194 rcs	N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V):		N/A
J	INSULATED WINDING WIRES FOR USE WITHOU INSULATION	T INTERLEAVED	N/A
J.1	General		N/A
	Winding wire inculation		
	Winding wire insulation:	- 115	



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Clause	Requirement + Test	Result - Remark	Verdict
LCS Testing	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):	LCS Testing Lab	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 mechanisms	anism	N/A
K.3	Inadvertent change of operating mode	Inadvertent change of operating mode	
K.4	Interlock safeguard override		N/A
K.5	Fail-safe Fail-safe	100	N/A
K.5.1	Under single fault condition		N/A
K.6	Mechanically operated safety interlocks	1	N/A
K.6.1	Endurance requirement		N/A
K.6.2	Test method and compliance:		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements		N/A
	In circuit connected to mains, separation distance for contact gaps (mm):		N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):		N/A
	Electric strength test before and after the test of K.7.2		N/A
K.7.2	Overload test, Current (A):		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A
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



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Clause	Requirement + Test	Result - Remark	Verdict
M	EQUIPMENT CONTAINING BATTERIES AND THE	EIR PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		Р
M.2.1	Batteries and their cells comply with relevant IEC standards:	(See appended table 4.1.2)	Р
M.3	Protection circuits for batteries provided within the equipment		Р
M.3.1	Requirements		Р
M.3.2	Test method	According to Manufacturer's requirements	Р
	Overcharging of a rechargeable battery	(See table B.4 and table Annex M)	Р
	Excessive discharging	(See table B.4 and table Annex M)	Р
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A
M.3.3	Compliance	(See appended table M.3)	Р
		No chemical leakage, no liquid spillage, no explosion, no emission of flame or expulsion of molten metal	
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		Р
M.4.1	General		Р
M.4.2	Charging safeguards		Р
M.4.2.1	Requirements		Р
M.4.2.2	Compliance ::	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:	Fire enclosure used.	Р
M.4.4	Drop test of equipment containing a secondary lithium battery	Tirker LCS Tost	ng LP
M.4.4.2	Preparation and procedure for the drop test		Р
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	The voltage differences not exceed 5%.	Р
M.4.4.4	Check of the charge/discharge function		Р
M.4.4.5	Charge / discharge cycle test		Р



M.4.4.6

M.5

M.5.1

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Risk of burn due to short-circuit during carrying

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Scan code to check authenticity

Compliance

Requirement



Ρ

Ρ

Ρ

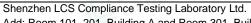


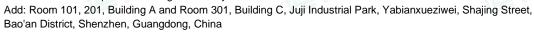
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Clause	Requirement + Test	Result - Remark	Verdict
M.5.2	Test method and compliance	THE PART OF THE PA	Р
M.6	Safeguards against short-circuits		Р
M.6.1	External and internal faults	Internal fault testing had been conducted on the cell as part of compliance with IEC62133-2: 2017	Р
M.6.2	Compliance		Р
M.7	Risk of explosion from lead acid and NiCd batter	ries	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 (m ³ /h):		N/A
M.7.3	Ventilation tests		N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A
	Hydrogen gas concentration (%):		N/A
M.7.3.3	Ventilation test – alternative 2		N/A
	Obtained hydrogen generation rate:		N/A
M.7.3.4	Ventilation test – alternative 3		N/A
	Hydrogen gas concentration (%):		N/A
M.7.4	Marking		N/A
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte		N/A
M.8.1	General	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 (m³/s):		_
M.8.2.3	Correction factors		_
M.8.2.4	Calculation of distance d (mm):		_
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse		N/A
	Instructional safeguard:		N/A











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Clause	Requirement + Test	Result - Remark	Verdic
N	ELECTROCHEMICAL POTENTIALS		N/A
	Material(s) used:		_
0	MEASUREMENT OF CREEPAGE DISTANCES AN	ID CLEARANCES	N/A
	Value of X (mm):		_
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	S	N/A
P.1	General	No PS3 circuits	N/A
P.2	Safeguards against entry or consequences of en	ntry 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	II Williams Lab	N/A
P.3.1	General		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Compliance		N/A
P.4	Metallized coatings and adhesives securing part	s	N/A
P.4.1	General		N/A
P.4.2	Tests		N/A
	Conditioning, T _C (°C):		_
	Duration (weeks)		_
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	Р
Q.1	Limited power sources		Р
Q.1.1	Requirements		Р
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	c) Regulating network limited output		Р
	d) Overcurrent protective device limited output		N/A



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V		<u> </u>				
	IEC 62368-1					
Clause	Requirement + Test	Result - Remark	Verdict			
STATE OF THE STATE	e) IC current limiter complying with G.9	- VIX 804 P** 1 aD	N/A			
Q.1.2	Test method and compliance:	(See appended table Q.1)	Р			
	Current rating of overcurrent protective device (A)		Р			
Q.2	Test for external circuits – paired conductor cable		N/A			
	Maximum output current (A):		N/A			
	Current limiting method:					
R	LIMITED SHORT CIRCUIT TEST		N/A			
R.1	General	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			
	- 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 barrie	er integrity	N/A			
	Samples, material:					
	Wall thickness (mm):		_			
	Conditioning (°C)					
S.3	Flammability test for the bottom of a fire enclosu	re	N/A			
S.3.1	Mounting of samples		N/A			
S.3.2	Test method and compliance		N/A			
	Mounting of samples:					
	Wall thickness (mm):					
a distance control or						



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IEO 00000 4	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Requirement + Test Result - Remark	Verdict
Flammability classification of materials	N/A
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):	
MECHANICAL STRENGTH TESTS	Р
General	Р
Steady force test, 10 N:	N/A
Steady force test, 30 N:	N/A
Steady force test, 100 N: (See appended table T.4)	Р
Steady force test, 250 N: (See appended table T.5)	Р
Enclosure impact test	N/A
Fall test	N/A
Swing test	N/A
Drop test: (See appended table T.7)	Р
Stress relief test: (See appended table T.8)	Р
Glass Impact Test:	N/A
Glass fragmentation test	N/A
Number of particles counted:	N/A
Test for telescoping or rod antennas	N/A
Torque value (Nm):	N/A
MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION	N/A
General	N/A
Instructional safeguard:	N/A
Test method and compliance for non-intrinsically protected CRTs	N/A
Protective screen	N/A
DETERMINATION OF ACCESSIBLE PARTS	N/A
Accessible parts of equipment	N/A
General	N/A
Surfaces and openings tested with jointed test probes	N/A
Openings tested with straight unjointed test probes	N/A
	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W Samples, material



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V	IEC 62368-1	
Clause	Requirement + Test Result - Remark	Verdict
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
X	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)	ON N/A
	Clearance	N/A
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES	N/A
Y.1	General	N/A
Y.2	Resistance to UV radiation	N/A
Y.3	Resistance to corrosion	N/A
Y.3	Resistance to corrosion	N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	N/A
Y.3.2	Test apparatus	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere	N/A
Y.3.4	Test procedure:	N/A
Y.3.5	Compliance	N/A
Y.4	Gaskets	N/A
Y.4.1	General	N/A
Y.4.2	Gasket tests	N/A
Y.4.3	Tensile strength and elongation tests	N/A
	Alternative test methods:	N/A
Y.4.4	Compression test	N/A
Y.4.5	Oil resistance	N/A
Y.4.6	Securing means	N/A
Y.5	Protection of equipment within an outdoor 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



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IEC 62368-1							
Clause	Requirement + Test	Result - Remark	Verdict				
Y.5.5.2	IP5X equipment	VILLEY OF	N/A				
Y.5.5.3	IP6X equipment		N/A				
Y.6	Mechanical strength of enclosures		N/A				
Y.6.1	General		N/A				
Y.6.2	Impact test		N/A				

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

5.2	TABLE: Classification of electrical energy sources							
Supply Voltage	Location (e.g.	Test conditions	tions Parameters					
	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info 2)	Class	
5Vdc	The EUT is designed to be supplied by 5Vdc	Normal	5Vdc				ES1	
4.2Vdc	Full battery	Normal	4.2Vdc				ES1	

Supplementary information:

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

5.4.1.8	TABLE: Working voltage measurement							
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comme	ents		
		-						
Supplementary information:								
mar 4	3	-1 RE (5)		-1 RE (5)				

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

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

5.4.2, 5.4.3	TABLE: Minimum Clearances/Creepage distance	N/A
--------------	---	-----



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				IEC 62	2368-1				
Clause Requirement + Test Result - Remark							Verdict		
Clearance (cl creepage dis (cr) at/of/betw	tance	U _p (V)	U _{rms} (V)	Freq 1) (Hz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)

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

5.4.4.2	TABLE: Minimum distance through insulation							
Distance through insulation (DTI) at/of		Peak voltage (V)	Insulation	Required DTI (mm)	Measured DTI (mm)			
Supplementary information:								

5.4.4.9 TABLE: Solid insulation at frequencies >30 kHz							N/A
Insulation m	aterial	Ep	Frequency (kHz)	K R	Thickness d (mm)	Insulation	V _{PW} (Vpk)
于开检测版	d _E	古话检测	Va Fap		元检测版		一一开村位
Supplement	ary information:	ST LCS Test		Medi	LCS Testin		LCS TO

5.4.9	TABLE: Electric strength	tests		N/A
Test voltage	e applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Supplemen	tary information:	可检测股份		g 绘测股份
WS I	rs Testing L	15 CS Testing	NS I	STesting L

5.5.2.2	TABLE:	Stored discharge o	ored discharge on capacitors						
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class			
Supplement	Supplementary information:								
X-capacitors	X-capacitors installed for testing:								



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			IEC 623	868-1			
Clause	Require	ment + Test			Result - Remark		Verdict
[]bleeding []ICX: Normal op		- IEA	normal operation, or o	open fuse),	SC= short circu	it, OC= ope	en circuit
5.6.6	TABLE:	Resistance of	of protective conduc	ctors and te	erminations		N/A
Location	Location		Test current (A)	Duration (min		ge drop (V)	Resistance (Ω)
							-
Supplemer	ntary inforn	nation:	nk	河服设计	·	-77	检测股份
MS I	CS Testing	Tan-	VIST CST	esting La		VIST ICS	Testing La
1							
5.7.4	TABLE:	Unearthed a	ccessible parts				N/A
Location	Location Operating and fault conditions				Parameters		ES
			ns Voltage (V)	Voltage Currer (V _{rms} or V _{pk}) (A _{rms} or V			•
Suppleme	ntary inforr	mation:					
Abbreviati	on: SC= sl	nort circuit; O	C= open circuit		可检测股份		n to
CS Testing		VIST I	CS Testing L	VISA	CS Testing L		MST ICST
5.7.5	TABLE	Earthed acc	essible conductive	part			N/A
Supply vol	tage (V)		:				
Phase(s)			: [] Single Phase	; [] Three F	hase: [] Delta	[] Wye	
Power Dis	tribution S	ystem	: 🗆 TN 🗀] TT [] IT		
Location			Fault Condition 60990 clause 6		Touch current (mA)	Сог	mment
				-15			
Suppleme	ntary Infor	mation:	i za i	立河 R支切		Tr.	检测股份
MS.	CS Testing		LCST	esting.		MST LCS	Lesting.
5.8	TABLE	: Backfeed sa	afeguard in battery	backed up	supplies		N/A
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A	ES Class
Suppleme	•		2— anon airavit	ı	•	1	1
Appreviation	on: SC= st	nort circuit, O	C= open circuit		- 115		





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		IEC 62368-1		
Clause	Requirement + Test	3	Result - Remark	Verdict

6.2.2	TABLE: Power source	circuit classificat	tions		-	P
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
Input circuit	Normal condition			>15W	5s	PS2 (declaration)
Battery cell	Normal	2.2	16.42	36.7	5s	PS2
Type-C output (load with 5VDC, 2A)	ut Normal	4.89	3.12	15.13	5s	PS2
Type-C output (load with 5VDC, 2A)	ut Q1 pin D to S SC	O LCS	0	0	3s	PS1
USB-A outpu (load with 5VDC, 2A)	t Normal	4.91	2.81	13.40	3s	PS1
USB-A outpu (load with 5VDC, 2A)	t Q1 pin D to S SC	0	0	0	3s	PS1

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

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

6.2.3.1	TABLE: Determi	nation of Arcing PIS			N/	Ά
Location		Open circuit voltage Measured r.m.s after 3 s (Vpk) current (A)		Calculated value	Arcing F Yes / I	
Supplement	ary information:					
	一侧股份		一加股份		加股份	

6.2.3.2	TABLE: Determi	TABLE: Determination of resistive PIS						
Location		Operating and fault condition	Dissipate power (W)		ing PIS? es / No			
Internal circuit				Yes				
				(de	efinition)			
Supplement	Supplementary information:							
Abbreviation	Abbreviation: SC= short circuit; OC= open circuit							



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

8.5.5	TABLE: High	n pressure lamp			N/A
Lamp manu	ıfacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
Supplemen	tary information):	•		

9.6	TABLE	: Tempera	ture meas	urem	ents	for wireles	s power t	ransmitter	s	N/A
Supply volta	Supply voltage (V)				立洲	Testing Lab		15	工工进行	_
Max. transm	Max. transmit power of transmitter (W):					_				
		w/o rece	eiver and contact			eiver and contact	with receiver and at distance of 2 mm		with receiver and at distance of 5 mm	
Foreign ol	bjects	Object (°C)	Ambient (°C)		ject C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Supplement	Supplementary information:									
-mes 43				计			- TII	昭份		

5.4.1.4,	TABLE: Temperature measurem	nents				Р
9.3, B.1.5, B.2.6						
Supply volta	Supply voltage (V)::		4.2VDC			_
Ambient temperature during test T _{amb} (°C):						_
Maximum m	neasured temperature <i>T</i> of part/at:	T (°C)				Allowed T _{max} (°C)
	······································	Condition 1	Condition 2			·····································
AST IC	R Maring Lab	立语 ^{形型/SS} LCS Testin	gLab		LCS T	esting Lab





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		IE	C 62368-1				
Clause Requirement + T	est	明股份		Resu	lt - Remark		Verdict
PCB near input Port	T TO Test	tiud rep	45.6	36.4	esting Lab	\	130
PCB near Q1			47.1	39.0			130
PCB near U1	44.9	40.3			130		
PCB near U2	46.9	42.4			130		
L1	51.3	41.3			130		
PCB near U3		47.0	41.6			130	
Battery wire			37.1	37.7			80
Battery body			32.6	32.0			Ref.
Plastic Enclosure inside nea	r battery		42.3	36.4		一节讯档	80
Plastic Enclosure outside ne	ar battery	1/2	35.9	33.5		SI-LCST	77
Ambient			25.0	25.0			
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class

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.

Note 3: Test condition specified as follows:

Condition 1: Only charged with empty battery.

Condition 2: Discharged with fully battery.

B.2.5	T.	ABLE: Inpu	ıt test						P
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition	on/status
5Vdc	立in	1.85	2.0	9.25	A检测磁份 STesting Lab			operati charg empty Battery	normal on, only ed with battery, charge it:1.94A
4.2 Vdc		2.67		11.21				oper dischar fully b Output	normal ation, ged with pattery, load with C, 2A





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

Clause	Requirement + 1	est	设份		Result - R	temark	Verdict
B.3, B.4	ABLE: Abnor	mal operatin	g and fau	ılt conditior	tests	ig Lab	PS TOS
Ambient temp	erature T _{amb} (°	C)		15	. : See belo	ow	_
Power source	for EUT: Manu	ufacturer, mod	del/type, c	utputrating.	.:		_
Component N	o. Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation	1
Only charged	with empty bat	tery					
Battery (B-~I	over charge	5Vdc	7hrs	孔位测度份 S Testing Lat		The product worked normal. Max continu charging current was No chemicals leak, emolten metal emissic expulsion observed. PCB near U1: 46.4°0 Battery body: 34.3°C Enclosure outside no battery: 37.1°C Ambient: 25.0°C	ous s 1.97A. explosion, on or
U1 pin D to	s sc	5Vdc	10mins			Unit shut down, reco After test, no damag hazards.	
R21	SC	5Vdc	10mins		工证 CS Testin	Normal working, no no hazardous	damage,
C8	SC	5Vdc	10mins	72		Normal working, no no hazardous	damage,
Discharged w	ith fully battery						
Battery (B-~I s-c)	Over discharge	4.2Vdc	7hrs	·····································		The product worked normal. Max continu discharging current value 2.43A. No chemicals explosion, molten memission or expulsion observed. PCB near U1: 43.0°C Battery body: 34.1°C Plastic Enclosure ou near battery: 35.0°C Ambient: 25.0°C	ous was s leak, etal n C tside
U1 pin D to	s sc	4.2Vdc	10mins			Unit shut down, reco After test, no damag hazards.	es, no
R21	SC	4.2Vdc	10mins			Normal working, no no hazardous	damage,
C8	SC	4.2Vdc	10mins		在 诺检测	Normal working, no no hazardous	damage,



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	IE	C 62368-1		
Clause	Requirement + Test		Result - Remark	Verdict

Supplementary information:

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

M.3	TABLE: Pr	otection circu	its for batterio	es provided v	vithin the eq	uipment	Р				
Is it possible	to install the	battery in a rev	verse polarity p	osition?:	No		—				
				Chargi	ng						
Equipment Specification			Voltage (V)			Current (A)					
			4.2	654.	4.0						
			Battery specification								
		Non-recharge	able batteries	Rechargeable batteries							
		Discharging	Unintentional	Char	ging	Discharging	Reverse				
Manufactu	urer/type	current (A)	charging current (A)	Voltage (V)	Current (A)	current (A)	charging current (A)				
Shenzhen Testing Tech Ltd / INR 2000r	nology Co., 18650P-		1股份	4.2	4.0	12.0					

Note: The tests of M.3.2 are applicable only when above appropriate data is not available.

Component No.	Fault condition	Charge/ discharge mode	Test time	Temp. (°C)	Current (A)	Voltage (V)	Observation
Battery	Normal	Charge mode	7h	32.6	1.94	2.75	The product worked as normal. No chemicals leak, explosion, molten metal emission or expulsion observed.
Battery	B- to P- SC	Charge mode	7h	34.3	1.94	2.75	The product worked as normal. No chemicals leak, explosion, molten metal emission or expulsion observed.
Battery	Normal	Discharge mode	7h	32.0	2.67	4.2	The product worked as normal. No chemicals leak, explosion, molten metal emission or expulsion observed.
Battery	B- to P-	Discharge mode	7h	34.1	2.67	4.2	The product worked as normal. No



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V		1 ago	10 01 10	Nopol	1110 200/101002	02010001
		IEC (62368-1			
Clause	Requiremen	t + Test		Result - Rem	ark	Verdict
Ce Lesting For	SC	LCS Testing ab	1/2	I CS Testing	chemicals le explosion, m metal emissi expulsion ob	olten on or
Supplement	arv information	on.				

Supplementary information:

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

	ABLE:	Charging sa	feguards for	equipment co	ontaining a	secondary lithium	P ont 43
Maximum spec	cified c	harging voltag	e (V)		. : 4.2	立讯检》	_
Maximum spec	cified c	harging currer	nt (A)	V.CS Tes	. : 4.0	ST FC2 In	_
Highest specific	ed cha	rging tempera	ture (°C)		. : 50		
Lowest specifie	ed chai	rging temperat	ure (°C)		. : 15		
Battery		Operating	Measurement		•	Observation	n
manufacturer/type		and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)		
Shenzhen Precise Testing Technology Co., Ltd / INR	ology NR	Normal	4.2	1.94	50.0°C	Battery normal char when cell temperate 50.0°C.	0 0
18650P-2000mAh		Normal	4.2	0	52.6°C	Battery normal charging, when cell temperature up 52.6°C, unit stop charging	
		Normal	4.2	0	0°C	Battery normal cha when cell temperat 0°C, unit stop charge	ure up to

Supplementary information:

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

Q.1	TABLE: Circuits inte	ended for inte	erconnectio	n with build	ding wiring	(LPS)	P
Output	Condition	11 (\)()	Time (a)	I _{sc}	(A)	S ('	VA)
Circuit	Condition	U _{oc} (V)	Time (s)	Meas.	Limit	Meas.	Limit
Type-C output (load with 5VDC, 2A)	Normal	4.92	5	3.21	8	15.78	100
Type-C output (load with 5VDC, 2A)	Q1 pin D to S SC	0	5	0	8	0	100



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	IEC 62368-1										
Clause	Requirement + Test	Result	Result - Remark								
USB-A output (load with 5VDC, 2A)	Normal	4.93	5	2.87	8	13.89	100				
USB-A output (load with 5VDC, 2A)	Q1 pin D to S SC	0	5	0	8	0	100				

Supplementary Information:

SC=short circuit; OC=open circuit

#Unit shut-down immediately, recoverable, no hazard.

			The seting			IL Months			
T.2, T.3, T.4, T.5			Tex res in			P			
Part/Locatio	on	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation		
Enclosu	ure	Plastic	2.5		100	5	Enclosure remained intact, no crack/opening developed.		
Enclosu	ure	Plastic	2.5	-	250	3 Lab	Enclosure remained intact, no crack/opening developed.		

T.6, T.9	TABLE: Imp	ΓABLE: Impact test			N/A	
Location/par	t	Material	Thickness (mm)	Height (mm)	Observation	on
Supplementary information:					ar 44	

T.7 TABLE: Drop	test 💛	LCSTest		Les Les	Р
Location/part	Material	Thickness (mm)	Height (mm)	Observation	n
Enclosure	Plastic	2.5	1000	Enclosure remained no crack/opening d	
Supplementary information	ı:	·			

T.8 TABLE: Stress relief test					Р		
Location/Part	t	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	vation



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		IEC 6	2368-1			
Clause	Requirement + Te	st		Result - Remark		Verdict
Enclosure	Plastic	2.5	70	7.0	Enclosure re intact, no crack/openin developed.	
Supplemen	ntary information:					

Х	TABLE: Alternative method for determining minimum clearances distances				
Clearance di between:	istanced	Peak of working voltage (V)	Required cl (mm)	Measure (mm)	
	一言		(t)		服份
Supplementa	ary information:	LCS TO	ting Lab	LCS Tes	ing Lab



















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	IEC 6230	68-1	
Clause	equirement + Test	Result - Remark	Verdict
THE ting Lab	世语 ting Lab	Till De sting Lab	世讯和

Litestins	1 11 11	Tasting	Tastil	19	TIL TO
4.1.2 TAB	LE: List of critical cor	nponents			P
Object / part N	No. Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity
PCB	HUIZHOU BOUNCING TECHNOLOGY ELECTRONIC CO LTD	M, M2, D	V-0, 130°C	UL 796	UL
(Alternative)	Interchangeable	Interchangeable	V-0, 130°C	UL 796	UL
Plastic	LG Chem	AF312C	V-0, 70°C, Min.	UL 94	UL 9 Lab
enclosure	Huizhou	MST LCST	thickness: 2.5mm	UL 746	35
	Petrochemical Co				
	Ltd				
Internal wire	Shenzhen	1007, 1015	Min. 80°C,	UL 758	UL
	Yixiantong Cable		Min.30 AWG		
	Co Ltd				
(Alternative)	Interchangeable	Interchangeable	Min. 80°C,	UL 758	UL
			Min.30 AWG		
Rechargeable	Jiangxi Cheng	INR 18650-	3.7Vdc, 2000mAh	IEC/EN 62133:	UL CB
Li-polymer	jiang new energy	2000mAh	7.40Wh	2017	report
Battery Cell	Co., Ltd	(京河) ho Lab	一话物	aLab	number: S-
CS Testing	V50 . C5	resting	MST ICS Testi	19	21086166
					A0

Supplementary information:

1) Provided evidence ensures the agreed level of compliance.







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Attachment No.1

一话检测技	IEC62368_1E - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict	

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

Attachment Form No. EU_GD_IEC62368_1E

Attachment Originator: UL(Demko)

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

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	CENELEC COMMON MODIFICATIONS (EN)			
	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018. Clauses, subclauses, notes, tables, figures and annexes which are additional to			
STILL BENT	those in IEC 62368-1:2018 are prefixed "Z".			
立洲短mgl	Add the following annexes:	TP		
rcs 182	Annex ZA (normative) Normative references to international publications with their corresponding European publications	Losie		
	Annex ZB (normative) Special national conditions			
	Annex ZC (informative) A-deviations			
	Annex ZD (informative) IEC and CENELEC code designations for flexible cords			
1	Modification to Clause 3 .			
3.3.19	Sound exposure	N/A		
	Replace 3.3.19 of IEC 62368-1 with the following definitions:	是你		

3.3.19.1	momentary exposure level, MEL	1	N/A
	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.		



*

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earphones that can be worn in or on or Shenzhen LCS Compliance Testing Laboratory Ltd.

audiovisual content / material; and

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

- uses a listening device, such as headphones or

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Report No.: LCSA040323264S001 Attachment No.1 around the ears: and - has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment. Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3. NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360. NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible. Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video mode only. The requirements do not apply to: professional equipment; NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment. hearing aid equipment and other devices for assistive listening; the following type of analogue personal music players: long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and cassette player/recorder; NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies. - a player while connected to an external amplifier that does not allow the user to walk around while in use. For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.



10.6.1.2

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The relevant requirements are given in

and measurement distances apply.

in the range 0 to 300 GHz

EN 71-1:2011, 4.20 and the related tests methods

Non-ionizing radiation from radio frequencies

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Attachment No.1

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立洲位测版以 LCS Testing Lab	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.	T·祝检测版 Los Testing Lab	立语检测 LCS Testi
10.6.2	Classification of devices without the capacity to e	estimate sound dose	P
10.6.2.1	General 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.	LCS Testin	S Lat P
an UK	For classifying the acoustic output L_{Aeq} , τ , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.		
立計检測股功 LCS Testing Lab	For music where the average sound pressure (long term L Aeq, τ) 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, T becomes the duration of the song.		立讯检测 LCS Testi
VSG TH	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{\text{Aeq},7}$) 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.	NSA 立语检测图	致价 a Lab
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)		N/A
立语检测股份	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.		立讯检测 cstesti



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Attachment No.1

- 415	Attachment No.1		
加热测路初	- for equipment provided with a standardized	可於測胜73	顺金加
IL Williams Land	connector (for example, a 3,5 phone jack) that	TWILE Testing La	TITTOSTI
rce,	allows connection to a listening device for general	rca ,	rce .
	use, the unweighted r.m.s. output voltage shall be		
	≤ 27 mV (analogue interface) or -25 dBFS (digital		
	interface) when playing the fixed "programme simulation noise" described in EN 50332-1.		
	- The RS1 limits will be updated for all devices as		
	per 10.6.3.2.		
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)		P
	RS2 is a class 2 acoustic energy source that does		
	not exceed the following:		c.UR
	- for equipment provided as a package (player with	「一」 「一	210
II II II	its listening device), and with a proprietary	Threstin	g La
TISA FC	connector between the player and its listening	1/3/1 rcs	
	device, or when the combination of player and		
	listening device is known by other means such as		
	setting or automatic 130 detection, the $L_{Aeq,T}$		
	acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as		
	described in EN 50332-1.		
	for equipment provided with a standardized		
	connector (for example, a 3,5 phone jack) that		
	allows connection to a listening device for general		
	use, the unweighted r.m.s. output voltage shall be		
一川段份	≤ 150 mV (analogue interface) or -10 dBFS (digital	一种股份	: : : : : : : : : : : : : : : : : :
古洲拉河 Lab	interface) when playing the fixed "programme	TiH 加加 Lab	古识验证
LCS Testins	simulation noise" as described in EN 50332-1.	CS Testins	CSTest
10.6.2.4	RS3 limits	12	N/A
	DC2 is a class 2 assuratio anargy source that		
	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.		
10.6.3	Classification of devices (new)	<u> </u>	N/A
10.6.3.1	General		N/A
			1,47.
	Previous limits (10.6.2) created abundant false		
	negative and false positive PMP sound level		
	warnings. New limits, compliant with The	9/1117-04	5417
立证	Commission Decision of 23 June 2009, are given below.	拉语 ^和	a rap
10.6.3.2	RS1 limits (new)	-1183 FCR 1	N/A
	PS1 is a class 1 acquetic aparay source that does		
	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} , τ acoustic		
-2112	output shall be ≤ 80 dB when playing the fixed	-2 HX	
加松测股功	"programme simulation noise" described in EN	可校测度73	THE SHAPE
Triting Lab	50332-1.	T. Testing La	工Masti
/C2 ,	 for equipment provided with a standardized 	Co .	rca,



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立语检测度以 LCS Testing Lab	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	T讲检测度Lab LCS Testing Lab	立语检测 LCS Testi
	interface) when playing the fixed "programme simulation noise" described in EN 50332-1.		
10.6.3.3	RS2 limits (new)		N/A
LCS LCS	RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN50332-1.	LCS Testin	Lab
10.6.4	Requirements for maximum sound exposure	Tin months	I Posti
10.6.4.1	Measurement methods	CS 10	P
	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.		r
10.6.4.2	Protection of persons		Р
TEL TEN	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.	LCS Testin	2份
	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.		
上海检测股份	The elements of the instructional safeguard shall be as follows:	· 和检测度份	上田检测



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Attachment No.1

	Attachment No.1		
立形检测股份 LCS Testing Lab	- element 1a: the symbol , IEC 60417-6044 (2011-01) - element 2: "High sound pressure" or equivalent	Lint检测程(A) Los Testing Lab	立讯检测 LCS Testi
VSI Tir	wording - element 3: "Hearing damage risk" or equivalent wording - element 4: "Do not listen at high volume levels for long periods." or equivalent wording An equipment safeguard shall prevent exposure of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off.	VST Ti形位测度	1263 1120
an 4A	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.	- TANKA	
立計位測版Lab LCS Testing Lab	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed. NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off. A skilled person shall not be unintentionally	T計檢測BC Lab CCS Testing Lab	立语检测 LCS Testi
10.6.5	exposed to RS3.		NI/A
10.6.5.1	Requirements for dose-based systems	T	N/A
10.6.5.1	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.	LEAT LCS Testin	N/A
五 ith Testing Lab	The percent music player shall be assembled with	Lithing Lab	Titl'Esti
rcs ,	The personal music player shall be supplied with	Co. Veni	rca,



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Attachment No.1

	Attachment No.1	- 11%	
立讯检测股功 LCS Testing Lab	easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.	LiH检测路口 Los Testing Lab	立讯检测 LCSTesti
10.6.5.2	When a dose of 100 % CSD is reached, and at		N/A
TE TOS	least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1. The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.	LCS Testiv	设计 19 Lab
10.6.5.3	Exposure-based requirements		N/A
立飛檢測股份 LCS Testing Lab	With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.	T讯检测股份 CS Testing Lab	立讯检测 LCS Testi
TE THE	Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface.	TSA TITATE	是份 B Lab

10.6.6	Requirements for listening devices (headphones, earphones, etc.)	
10.6.6.1	Corded listening devices with analogue input	N/A
	With 94 dB <i>L</i> Aeq acoustic pressure output of the listening device, and with the volume and sound	
	settings in the listening device (for example, built-in volume level control, additional sound features like	工语检测 Testiv



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	equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV.	用位测版以 STesting Lab	
40.000	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 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.	LCS Testing	N/A
10.6.6.3	Cordless listening devices 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	A检测股份	N/A
	— with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the $LAeq$, T acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	S Testing Lo	CST
10.6.6.4	Measurement method Measurements shall be made in accordance with EN 50332-2 as applicable.		N/A
3	Modification to the whole document		



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Attachment No.1

立讯检测股 ing	De		country" notes	in the refer	ence documer	nt according	to the following	9	Pail
	list	V							LCSTest
		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	1	
		5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3		
		5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	-	
		Table 13							
	-: A.*	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	MR	Lab
	LOST	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	- Gu	
		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		
	14) 130	Y.4.5	Note						古语检测
4	Мо	dification to	o Clause 1		1 Fair	A 7 182"			Test
1	Ad	ld the follow	ing note:						N/A
	an		use of certain equipment is r						

5	Modification to 4.Z1	
---	----------------------	--



Tin检测股份

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	Attachment No.1		
4.Z1	Add the following new subclause after 4.9:	· TA检测度型	N/A
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains , protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective	LCS Testing La	LCS Testi
	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 Tosting	份 Lab
立讯检测股份 LCS Testing La	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	立讯检测股份 LCS Testing Lab	立讯检测 LCS Testi
6	Modification to 5.4.2.3.2.4		
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external pirouit is in addition given in EN 50404 3:2000		N/A
7	circuit is in addition given in EN 50491-3:2009. 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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Attachment No.1

- 415	Attachment No.1	- 115	
10.5.1	Add the following after the first paragraph:	与讯检测股 ⁷⁷	N/A
LCS Testing	For RS 1 compliance is checked by measurement under the following conditions:	LCS Testing	LCS Testin
آذامه	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	上 : 开始:	则胜份
MSI ILV	examples of adequate locking.	IST LCS Tes	ting
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.		
~ 测股份	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.	· 一则股份	700
工记的Testing Lab	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	工語程 Manual Lab LCS Testing Lab	立语证》 LCS Testin
	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.		

10	Modification to Bibliography	
----	------------------------------	--



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Attachment No.1

- 115		Attachment No.1	- 115		
2.31检测股7	Add the following note	s for the standards indicate	ed:		N/A
I We Testing Lo	TIV			15-15	Lylor
1 100		NOTE Harmonized as EN 60		-17	100
		NOTE Harmonized as HD 60			
		NOTE Harmonized as EN 60			
			d in HD 384/HD 60364 series.		
		NOTE Harmonized as EN 60			
	IEC 60664-5	NOTE Harmonized as EN 60	664-5.		
	IEC 61032:1997 I	NOTE Harmonized as EN 61	032:1998 (not modified).		
		NOTE Harmonized as EN 61			
	IEC 61558-2-1	NOTE Harmonized as EN 61	558-2-1.		
	IEC 61558-2-4	NOTE Harmonized as EN 61	558-2-4.		
	IEC 61558-2-6	NOTE Harmonized as EN 61	558-2-6.	- REA	份
2-3	IEC 61643-1	NOTE Harmonized as EN 61	643-1.	金洲四	ds
Wel II	IEC 61643-21 I	NOTE Harmonized as EN 61	643-21.	resting	
- TEA LI	IEC 61643-311	NOTE Harmonized as EN 61	643-311.		
	IEC 61643-321 I	NOTE Harmonized as EN 61	643-321.		
	IEC 61643-331	NOTE Harmonized as EN 61	643-331.		
11	ADDITION OF ANNEX	(ES			
ZB	ANNEX ZB, SPECIAL	NATIONAL CONDITIONS	(EN)		
4.1.15	Denmark, Finland, No	orway and Sweden			N/A
	To the end of the subc	lause the following is			
	added:	lause the following is			
· · · · · · · · · · · · · · · · · · ·		uipment type A intended	10 TO THE 15T		MF-24
世界和 ting La	for connection to other		T LCS Testing Lab	1	I.H. PLIN
LCSTes		relies on connection to	LCS Tes	MSA	LCSTest
	reliable earthing or if s				
		n the network terminals			
	and accessible parts,	have a marking stating			
	that the equipment sha				
	earthed mains socket-	outlet.			
		P 11 (2 1 1 1			
	be as follows:	e applicable countries shall			
	De as follows.				
	In Denmark : "Apparate	ets stikprop skal tilsluttes			
		d som giver forbindelse til		-mil RE	份
- 21	stikproppens jord."	于 清 · · · · · · · · · · · · · · · · · ·	- +TŸ	日本测路。 STesting	Lab
VISA		itettävä suojakoskettimilla	VSCIC	STesting	
	varustettuun pistorasia	ian"	1		
	In Norway: "Apparatet				
	stikkontakt"				
	In Sweden : "Apparate	n skall anslutas till jordat			
	uttag"	-			
	1		1		



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Attachment No.1

	Attachment No.1		
4.7.3	United Kingdom	古语检测度/2	N/A
LCS Testins	To the end of the subclause the following is added:	LCS Testins	LCS Testing
	The torque test is performed using a socket-outlet		
	complying with BS 1363, and the plug part shall be		
	assessed to the relevant clauses of BS 1363. Also		
5000	see Annex G.4.2 of this annex		NI/A
5.2.2.2	Denmark		N/A
	After the 2nd paragraph add the following:		
	A warning (marking safeguard) for high touch		
	current is required if the touch current exceeds the	A 1107 = ~ ~	2份
F 4 4 4 4 1	limits of 3,5 mA a.c. or 10 mA d.c.	Till IV	Lab
5.4.11.1 and	Finland and Sweden	MST LCS TOST	N/A
Annex G	To the end of the subclause the following is added:		
	For separation of the telecommunication network from earth the following is applicable:		
	If this insulation is solid, including insulation forming		
	part of a component, it shall at least		
	consist of either		
	two layers of thin sheet material, each of which		
一川程份	shall pass the electric strength test below, or	10000000000000000000000000000000000000	· mil R
立记STesting La	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	工记 Testing Lab	LCS Testing
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition		, ux
TE IN	 passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), 	LCS Testin	l rap
	and		
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.		
女讯检测股份	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	在讯检测股份	女·开检测·B
I LCS Testing	A capacitor classified Y3 according to EN 60384-	LCS Testin	LCS Testill
	In capacitor classified 13 according to EN 00304-		W



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Attachment No.1

	Attachment No.1	- 115	
立语检测版》 LCS Testing La	14:2005, may bridge this insulation under the following conditions:	工活检测度以 LCS Testing Lab	立语检测器 LCS Testing
	the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;		
	the additional testing shall be performed on all the test specimens as described in EN 60384- 14;		
T I	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.	立河 Tin Testin	ith
5.5.2.1	Norway	Mag Ice	N/A
	After the 3rd paragraph the following is added:		
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).		
5.5.6	Finland, Norway and Sweden		N/A
	To the end of the subclause the following is added:		
立语检测股份 LCS Testing La	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	工讯检测股份 LCS Testing Lab	
5.6.1	Denmark		N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket- outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification:		份
VE T	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	LCS Testin	Lab
5.6.4.2.1	Ireland and United Kingdom		N/A
	After the indent for pluggable equipment type A , the following is added: — the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.		



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	Attachment No.1		
5.6.4.2.1	France	于讯检测版 Lab	N/A
	After the indent for pluggable equipment type A , the following is added: — in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A	LCS Testino	LCS Testin
F C F 4	instead of 16 A. To the second paragraph the following is added:		NI/A
5.6.5.1	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm² to 1,5 mm² in cross-sectional area.		N/A
5.6.8	Norway		N/A
TET LO	To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as class I equipment . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	LCS Testin	Lab
5.7.6	Denmark		N/A
	To the end of the subclause the following is added:		
د ا	The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	- 115	
5.7.6.2	Denmark	大讯检测版 Lab	N/A
LCS Testing	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.	LCS Testing	LCS Testin
5.7.7.1	Norway and Sweden		N/A
15 立	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	Tin 拉洲旗	设 J Lab
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.		
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:		
立语检测股份	"Apparatus connected to the protective earthing of the building installation through the mains	立语检测股份 Testing Lab	立语检测的



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Tel: +(86) 0755-8259 1330 | E-mail: webmaster@lcs-cert.com | www.lcs-cert.com

Scan code to check authenticity

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Attachment No.1

- 115	Attachment No.1	- 115		
立州位测能 LCS Testing Lat	connection or through other apparatus with a connection to protective earthing — and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	工活检测版以 LCS Testing Lab		立讯检测》 LCS Testing
TE IC	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will also be accepted in Norway):			设 J Lab
	"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."	The state of the s		- mal (1)
立河(松河) Da Lai	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."	工讯检测品Lab LCS Testing Lab		文讯检测原 LCS Testin
8.5.4.2.3	United Kingdom			N/A
	Add the following after the 2 nd dash bullet in 3 rd paragraph:			· 份
TE IN	An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.		LCS Testin	¹ Fap



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Attachment No.1

	Attachment	No.1	- 4/5	
B.3.1 and	Ireland and United Kingdom		15 (1)	N/A
B.4	The following is applicable:	LCS Testin		LCS Testing
	To protect against excessive currents and s circuits in the primary circuit of direct plug-iequipment , tests according to Annexes B.3 B.4 shall be conducted using an external micircuit breaker complying with EN 60898-1, rated 32A. If the equipment does not pass the tests, suitable protective devices shall be incas an integral part of the direct plug-inequipment , until the requirements of Annex B.3.1 and B.4 are met	n. .1 and niature Type B, nese cluded		9 W
G.4.2	Denmark	ing Lab		N/A
1 ST TO	To the end of the subclause the following is	added:		
	Supply cords of single phase appliances have rated current not exceeding 13 A shall be prewith a plug according to DS 60884-2-D1:201	ovided		
女用检测股份	CLASS I EQUIPMENT provided with socket with earth contacts or which are intended to used in locations where protection against in contact is required according to the wiring rushall be provided with a plug in accordance standard sheet DK 2-1a or DK 2-5a.	be ndirect iles		中语检测图
LCS Testing	If a single-phase equipment having a RATEI CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord wit plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 60309-2.	h a e		LCS Testin
	Mains socket outlets intended for providing processing to Class II apparatus with a rated current of shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	2,5 A		ux.
TE II	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	ng Lab		ul rap
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, 5a or DK 1-7a	DK 1-		
	Justification:			
	Heavy Current Regulations, Section 6c			



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Attachment No.1

	Attachment No.1	- 112	
G.4.2	United Kingdom	九·开检测股力。	N/A
LCS Testing	To the end of the subclause the following is added:	LCS Testing	LCS Testin
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than		
	125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.		
G.7.1	United Kingdom		N/A
43	To the first paragraph the following is added:	节节检测 器	设 Lab
Les Lo	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.	Les Testin	
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	工会测股份	
G.7.1	Ireland To the first paragraph the following is added:	LCS Testing Land	N/A
	Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard		
G.7.2	Ireland and United Kingdom	med Fil	N/A
TE LO	To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	LCS Testing	Lab
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		
	I .		·



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Attachment No.1

	1,1100011110111	- 112	
10.5.2	Germany	古讯位测度 ^D	N/A
LCS Testins	The following requirement applies:	LCS Testino	
	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.		
一立	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	工活检测图	
(Sá L	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	Los Tes.	

五 立形检测股份 LCS Testing Lab











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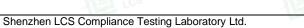
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Attachment No.1

ZD	IEC and CENELEC CODE DESIGNATIONS F	OR FLEXIBLE C	ORDS (EN)	上班检查
LCS Testing	Type of flexible cord	Code de	esignations	N/A
		IEC	CENELEC	
	PVC insulated cords			
	Flat twin tinsel cord	60227 IEC 41	H03VH-Y	
	Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	
	Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	设份
	Rubber insulated cords			ing Lab
	Braided cord	60245 IEC 51	H03RT-F	
	Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	
	Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	
	Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
	Cords having high flexibility	•		
	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	
	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H	上田位
	Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	LCSTE
	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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Attachment No.2

Details of:

Overall View-1



Details of: Overall View-2





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Attachment No.2

Details of: External View-1



Details of: External View-2





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Attachment No.2

Details of: Internal View-1



Details of: Internal View-2





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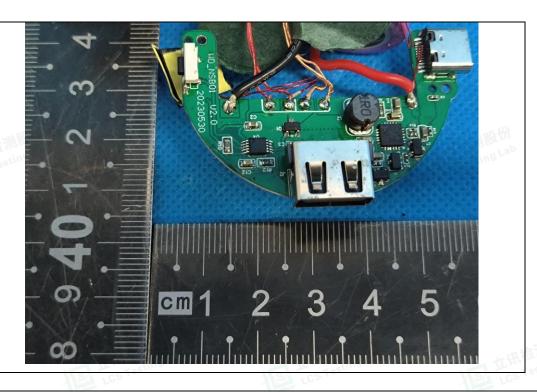
Report No.: LCSA040323264S001

Attachment No.2

Details of: Internal View-3



Details of: PCB View-1





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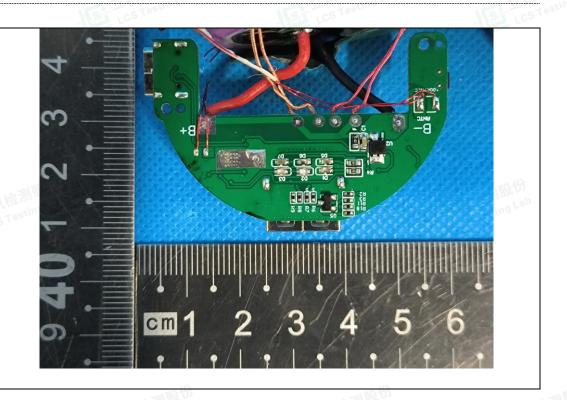
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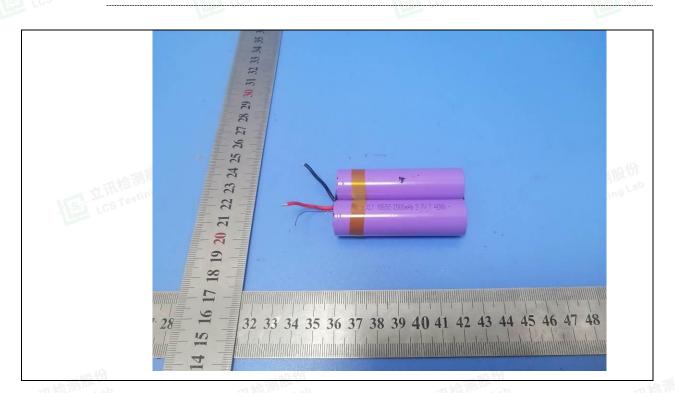
Attachment No.2

Details of: Po

PCB View-2



Details of: Battery View



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



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TEST REPORT EN 60335-1

Safety of household and similar electrical appliances

Report Number. LCSA040323267S001

Date of issue: June 05, 2023

Total number of pages.....: 111

Name of Testing Laboratory Shenzhen LCS Compliance Testing Laboratory Ltd.

Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District,

REPORT NO.: LCSA040323267S001

Shenzhen, Guangdong, China

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

Kowloon, Hong Kong

Test specification:

Standard EN 60335-1: 2012+A11: 2014+A13: 2017+A1: 2019+A2:

2019+A14:2019+A15:2021; EN 62233: 2008

Test procedure.....: CE-GPSD

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

Test Report Form No.....: IEC60335_1X

Test Report Form(s) Originator....: Nemko AS

Master TRF...... Dated 2016-10

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Hand warmer power bank

Trade Mark::

Test item description:

114628 Manufacturer....:

MO6949 Model/Type reference:

Type-C input: 5V== 2A Ratings::

Type-C output: 5V=== 2A; USB-A output: 5V 2A

Battery: 3.7VDC, 4000mAh, 14.8Wh

Testing procedure and testing location:

Testing Laboratory: Shenzhen LCS Compliance Testing Laboratory Ltd.

Room 101, 201, Building A and Room 301, Building C, Juji Testing location/ address.....:

Industrial Park, Yabianxueziwei, Shajing Street, Bao'an

District, Shenzhen, Guangdong, China

Betty Chen / Test Tested by..... Engineer

REPORT NO.: LCSA040323267S001

Caps Li / Project Reviewed by..... Engineer

Hart Qiu / Technical Approved by...... Manager

List of Attachments:

Attachment No.1:

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES.

Attachment No.2:

Product photos.

Summary of testing:

Tests performed (name of test and test clause):

The submitted samples were found to comply with the requirements of:

Electrical safety

IEC 60335-1:2010/COR1:2010/COR2:2010 /AMD1:2013/COR1:2014/AMD2:2016/COR1:2016

EN 60335-1: 2012+A11: 2014+A13: 2017+A1: 2019+A2: 2019+A14:2019+A15:2021; EN 62233:

Testing location:

Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

List of countries addressed: National Differences and Group Differences as per CB bulletin. See attachment of National and Group Differences for details

 ☐ The product fulfils the requirements of EN 60335-1: 2012+A11: 2014+A13: 2017+A1: 2019+A2: 2019+A14:2019+A15:2021; EN 62233: 2008

TRF No. IEC60335 1X



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Copy of marking plate:

The artwork below may be only a draft.

Type-C input: DC 5V == 2A Type-C output: DC 5V === 2A USB-A output: DC 5V== 2A Capacity:4000mAh/14.8Wh PO4100111709 Made in China

MOB/MO6949 PO BOX 644 6710 BP(NL)





Remarks:

- 1. The height dimension of WEEE symbol should not less than 7mm.
- 2. Importer information will be reflected in the final product.











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Test item pa	rticulars	:		
Classificatio	on of installation and u	se:	Handle appliance, Class III	
Supply Coni	nection	:	N/A	
Possible tes	t case verdicts:			
- test case d	oes not apply to the te	est object:	N/A	
- test object	does meet the require	ement:	P (Pass)	
- test object	does not meet the req	uirement:	F (Fail)	CH SAIME CO
Testing	/ Line Pap		Testing Lab	Till I los Testing Lab
Date of rece	ipt of test item	1/2/2 105	2023-04-03	Tos .
Date (s) of p	erformance of tests	:	From 2023-04-03 to2023-04	-25
			From 2023-06-01 to2023-06	-05
0	- ml			
General rem				
	sure #)" refers to addition ded table)" refers to a ta			
Throughout	this report a 🗌 com	ma / 🖂 point is u	sed as the decimal separat	tor.
			-	.~
These marke	ed "*" test clauses are no	-	•	
These marke	ed "*" test clauses are no	-	of CNAS recognition.	二 立讯位
These marke	ed "*" test clauses are no	ot within the scope Revision	of CNAS recognition.	Revised By
[清] 拉剂 how had	一直	ot within the scope Revision	of CNAS recognition. History	五立 Tree
Revision	Issue Date	Revision	of CNAS recognition. History	Revised By
Revision V1.0 V2.0	Issue Date April 14, 2023 June 05, 2023	Revision Re Original report. Updated	of CNAS recognition. History	Revised By Caps li Caps li
Revision V1.0 V2.0 This report re	Issue Date April 14, 2023 June 05, 2023	Revision Re Original report. Updated CSA040323267S	of CNAS recognition. History vision Content , and the original report is inv	Revised By Caps li Caps li
Revision V1.0 V2.0 This report re Manufacture The application includes more declaration free sample(s) surepresentative.	Issue Date April 14, 2023 June 05, 2023 eplaces the report No. I	Original report. Updated CSA040323267S b-clause 4.2.5 of lest Certificate on and a lating that the seach factory has	of CNAS recognition. History vision Content , and the original report is inv	Revised By Caps li Caps li
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Revision V1.0 V2.0 This report re Manufacture The application includes more declaration fresample(s) surepresentative been provide When different	Issue Date April 14, 2023 June 05, 2023 Explaces the report No. Let's Declaration per sure than one factory location the Manufacturer statement of the products from ed	Original report. Updated CSA040323267S b-clause 4.2.5 of lest Certificate on and a ating that the cach factory has be identified in the control of the control of the control of the cach factory has be identified in the control of the control o	of CNAS recognition. History Vision Content A and the original report is invited by the content of the conte	Revised By Caps li Caps li valid.





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	IEC 60335-1	18	
Clause	Requirement + Test	Result - Remark	Verdict
5	GENERAL CONDITIONS FOR THE TESTS		
	Tests performed according to clause 5, e.g. nature of supply, sequence of testing, etc.		Р
6	CLASSIFICATION		
6.1	Protection against electric shock: Class 0, 0I, I, II, III	Class III	Р
151 T	For a class III construction with a detachable power supply part the appliance is classified according to the detachable power supply part	THAT LCS Testi	N/A
6.2	Protection against harmful ingress of water		N/A
7	MARKING AND INSTRUCTIONS	•	
7.1	Rated voltage or voltage range (V)	Input: 5V	Р
	Symbol for nature of supply, or		Р
	Rated frequency (Hz)		N/A
	Rated power input (W), or		N/A
	Rated current (A)	2A	Р
讯检测股份	Manufacturer's or responsible vendor's name, trademark or identification mark	See label	P
CSTES	Model or type reference	See label	P
	Symbol IEC 60417-5172, for class II appliances		N/A
	IP number, other than IPX0	IPX0	N/A
	Symbol IEC 60417-5180, for class III appliances, unless		N/A
	the appliance is operated by batteries only, or		N/A
	for appliances powered by rechargeable batteries recharged in the appliance		Р
	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth	III. Ast	N/A
TEA T	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hosesets for connection of an appliance to the water mains, if the working voltage exceeds extra-low voltage	LCS Testi	N/A
7.2	Warning for stationary appliances for multiple supply		N/A
	Warning placed in vicinity of terminal cover		N/A

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	IEC 60335-1		
Clause	Requirement + Test Requirement	esult - Remark	Verdi
7.3	Range of rated values marked with the lower and upper limits separated by a hyphen		N/A
	Different rated values marked with the values separated by an oblique stroke		N/A
7.4	Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequency setting is clearly discernible		N/A
TE I	Requirement met if frequent changes are not required and the rated voltage or rated frequency to which the appliance is to be adjusted is determined from a wiring diagram	LCS Testi	N/A
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless		N/A
	the power input or current are related to the arithmetic mean value of the rated voltage range		N/A
, are life	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear	an Hi	N/A
7.6	Correct symbols used	讯检测 Lab	七折片
CS Testing	Symbol for nature of supply placed next to rated voltage	Ce In	P
	Symbol for class II appliances placed unlikely to be confused with other marking		N/A
	Units of physical quantities and their symbols according to international standardized system		Р
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless		N/A
	correct mode of connection is obvious		N/A
7.8	Except for type Z attachment, terminals for connection as follows:	to the supply mains indicated	报加 ng Lab
-102	- marking of terminals exclusively for the neutral conductor (letter N)	100	N/A
	- marking of protective earthing terminals (symbol IEC 60417-5019)		N/A
	- marking of functional earthing terminals (symbol IEC 60417-5018)		N/A
	- marking not placed on removable parts		N/A



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	IEC 60335-1	100	
Clause	Requirement + Test	Result - Remark	Verdict
7.9	Marking or placing of switches which may cause a hazard		N/A
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means		N/A
	This applies also to switches which are part of a control		N/A
以至其	If figures are used, the off position indicated by the figure 0	TT	N/A
182	The figure 0 indicates only OFF position, unless no confusion with the OFF position	122	N/A
7.11	Indication for direction of adjustment of controls		N/A
7.12	Instructions for safe use provided		Р
	Details concerning precautions during user maintenance		Р
	The instructions state that:	,	
·讯检测股份 CS Testing La	- the appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction	立讯检测股份 LCS Testing Lab	P (20)
	- children being supervised not to play with the appliance		P
	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided		N/A
	Instructions for class III appliances state that it must only be supplied at SELV, unless		Р
	it is a battery-operated appliance, the battery being charged outside the appliance		N/A
はい	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated	NSA 立语性测	N/A
	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only		N/A
7.12.1	Sufficient details for installation supplied		

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	IEC 60335-1	1	A Los
Clause	Requirement + Test	Result - Remark	Verdi
	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated		N/A
	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance		N/A
7.12.2	Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules	TST TITTE TO CEST CEST CEST CEST	N/A
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state that the fixed wiring must be protected		N/A
7.12.4	Instructions for built-in appliances:	1	
	- dimensions of space		N/A
	- dimensions and position of supporting and fixing		N/A
讯检测股份	- minimum distances between parts and surrounding structure	在讯检测股份	N/A
CS Tes	- minimum dimensions of ventilating openings and arrangement	rce ie.	N/A
	- connection to supply mains and interconnection of separate components		N/A
	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless		N/A
	a switch complying with 24.3		N/A
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord		N/A
- 3	Replacement cord instructions, type Y attachment	- 油检测	N/A
MSA LO	Replacement cord instructions, type Z attachment	VST LCS Test	N/A
7.12.6	Caution in the instructions for appliances incorporating a non-self-resetting thermal cut-out that is reset by disconnection of the supply mains, if this cut-out is required to comply with the standard		N/A
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed		N/A
7.12.8	Instructions for appliances connected to the water m	ains:	



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03	IEC 60335-1	The state of the s	LCs.
Clause	Requirement + Test	Result - Remark	Verdic
	- max. inlet water pressure (Pa)		N/A
	- min. inlet water pressure, if necessary (Pa):		N/A
	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets		N/A
7.12.9	Instructions specified in 7.12 and from 7.12.1 to 7.12.8 appear together before any other instructions supplied with the appliance	七田位 测	P 股份
181 LO	These instructions may be supplied with the appliance separately from any functional use booklet	LCS Test	N/A
	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches		N/A
	In addition, instructions are also available in an alternative format such as on a website or on request from the user in a format such as a DVD		Р
	In addition, instructions are also available in an alternative format such as on a website or in a format such as a DVD		Р
7.13	Instructions and other texts in an official language	English language	P
7.14	Markings clearly legible and durable:	LCS Testing	P
	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified		N/A
	Uppercase letter of the text explaining the signal word not smaller than 1,6 mm		N/A
	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless		N/A
	contrasting colours are used		N/A
	Markings checked by inspection, measurement and rubbing test as specified	IF o	P 股份
7.15	Markings on a main part	Title	og Pap
100	Marking clearly discernible from the outside, if necessary after removal of a cover	1	Р
	For portable appliances, cover can be removed or opened without a tool		N/A
	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation		N/A

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Non-sting La	I I'm asting La	II Ving La	TITU
CS 10	IEC 60335-1	rcs	LCS
Clause	Requirement + Test	Result - Remark	Verdi
	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions		N/A
	Indications for switches and controls placed on or near the components. Marking not on parts which can be positioned or repositioned in such a way that the marking is misleading		Р
_ ti	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180	立 形检测	N/A
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	Visit res	N/A
8	PROTECTION AGAINST ACCESS TO LIVE PARTS	S	
8.1	Adequate protection against accidental contact with live parts	Class III appliance	N/A
8.1.1	Requirement applies for all positions, detachable parts removed		N/A
118	Lamps behind a detachable cover not removed, if conditions met	100	N/A
·讯检测股初	Insertion or removal of lamps, protection against contact with live parts of the lamp cap	工语检测版社	N/A
,0-	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts		N/A
	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts		N/A
8.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, through openings in class 0 appliances and class II appliances/constructions: no contact with live parts		N/A
	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts		N/A
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements or supporting parts	LCS Testi	N/A
	For a single switching action obtained by a switching device, requirements as specified		N/A
	For appliances with a supply cord and without a switching device, the single switching action may be obtained by the withdrawal of the plug		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
8.1.4	Accessible part not considered live if:		
	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V		N/A
	- safety extra-low d.c. voltage: not exceeding 42.4 V	5V	Р
	- or separated from live parts by protective impedance		N/A
一工工	If protective impedance: d.c. current not exceeding 2 mA, and	立讯检测	N/A
1/80 ro	a.c. peak value not exceeding 0.7 mA	- FC2	N/A
	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0,1 μF		N/A
	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC		N/A
	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ		N/A
8.1.5	Live parts protected at least by basic insulation befor	re installation or assembly:	
	- built-in appliances		N/A
河检测股份	- fixed appliances	和校测度的	N/A
CS Testing	- appliances delivered in separate units	LCS Testing	N/A
8.2	Class II appliances and constructions constructed so that there is adequate protection against accidental contact with basic insulation and metal parts separated from live parts by basic insulation only		N/A
	Only possible to touch parts separated from live parts by double or reinforced insulation		N/A
9	STARTING OF MOTOR-OPERATED APPLIANCES	3	
	Requirements and tests are specified in part 2 when necessary		N/A
10	POWER INPUT AND CURRENT		
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1	(see appended table)	N/A

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Page 12 of 111 REPORT NO.: LCSA040323267S001 IEC 60335-1 Clause Requirement + Test Result - Remark Verdict If the power input varies throughout the operating N/A cycle and the maximum value of the power input exceeds, by a factor greater than two, the arithmetic mean value of the power input occurring during a representative period, the power input is the maximum value that is exceeded for more than 10 % of the representative period Otherwise the power input is the arithmetic mean N/A value Test carried out at upper and lower limits of the N/A ranges for appliances with one or more rated voltage ranges, unless the rated power input is related to the arithmetic N/A mean value 10.2 Current at normal operating temperature, rated Ρ (see appended table) voltage and normal operation not deviating from rated current by more than shown in table 2 N/A If the current varies throughout the operating cycle and the maximum value of the current exceeds, by a factor greater than two, the arithmetic mean value of the current occurring during a representative period, the current is the maximum value that is exceeded for more than 10 % of the representative period Otherwise the current is the arithmetic mean value N/A Test carried out at upper and lower limits of the N/A ranges for appliances with one or more rated voltage ranges, unless the rated current is related to the arithmetic mean N/A value of the range 11 **HEATING** 11.1 No excessive temperatures in normal use Ρ 11.2 Р The appliance is held, placed or fixed in position as described.....: Р 11.3 Temperature rises, other than of windings,

TRF No. IEC60335 1X



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Temperature rises of windings determined by

the windings are non-uniform or it is difficult to

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determined by thermocouples

make the necessary connections

resistance method, unless



N/A



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,-	IEC 60335-1	1	
Clause	Requirement + Test	Result - Remark	Verdi
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W):		N/A
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)	1.06x5V	Р
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)		N/A
11.7	Operation duration corresponding to the most unfavourable conditions of normal use	LCS Test	mg P
11.8	Temperature rises monitored continuously and not exceeding the values in table 3	(see appended table)	Р
	If the temperature rise of a motor winding exceeds the value of table 3, or		N/A
	if there is doubt with regard to classification of insulation,		N/A
	tests of Annex C are carried out		N/A
	Sealing compound does not flow out		N/A
一绘测股份	Protective devices do not operate, except	14.测度份	IN/A
CS Testing La	components in protective electronic circuits tested for the number of cycles specified in 24.1.4	LCS Testing Las	N7A
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH TEMPERATURE	AT OPERATING	,
13.1	Leakage current not excessive and electric strength adequate		N/A
	Heating appliances operated at 1.15 times the rated power input (W)		N/A
	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage (V)		N/A
以到立	Protective impedance and radio interference filters disconnected before carrying out the tests	VSC 立语检测	N/A
13.2	The leakage current is measured by means of the circuit described in Figure 4 of IEC 60990:1999	150	N/A
	For class 0I appliances and class I appliances, except parts of class II construction, C may be replaced by a low impedance ammeter		N/A
	Leakage current measurements	(see appended table)	N/A
13.3	The appliance is disconnected from the supply		N/A



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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
	Electric strength tests according to table 4	(see appended table)	N/A
	No breakdown during the tests		N/A
14	TRANSIENT OVERVOLTAGES	1	
	Appliances withstand the transient over-voltages to which they may be subjected		N/A
	Clearances having a value less than specified in table 16 subjected to an impulse voltage test, the test voltage specified in table 6	(see appended table)	N/A
100	No flashover during the test, unless	Tos .	N/A
	of functional insulation if the appliance complies with clause 19 with the clearance short-circuited		N/A
15	MOISTURE RESISTANCE		
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance	IPX0	N/A
-n.h	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3		N/A
·····································	No trace of water on insulation which can result in a reduction of clearances or creepage distances below values specified in clause 29	工活检测 Lab LCS Testing Lab	N/A
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529		N/A
	Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances		N/A
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test		N/A
	Built-in appliances installed according to the instructions		N/A
NE T	Appliances placed or used on the floor or table placed on a horizontal unperforated support	VSL 立语检测	N/A
1	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board		N/A
	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube		N/A

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	IEC 60335-1	1	
Clause	Requirement + Test	Result - Remark	Verdi
	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and		N/A
	for appliances normally used on the floor or table, the movement is limited to two times 90° for a period of 5 min, the support being placed at the level of the pivot axis of the oscillating tube		N/A
一工工	Wall-mounted appliances, take into account the distance to the floor stated in the instructions	立讯检测	N/A
182 1	Appliances normally fixed to a ceiling are mounted underneath a horizontal unperforated support, the pivot axis of the oscillating tube located at the level of the underside of the support, and	TOS 18	N/A
	for IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min		N/A
	Appliances with type X attachment fitted with a flexible cord as described		N/A
THE 4	Detachable parts subjected to the relevant treatment with the main part		N/A
讯位 ^{测加} CS Testing Le	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed	在河南 LCS Testing Lab	N/A
15.2	Spillage of liquid does not affect the electrical insulation		N/A
	Spillage solution comprising water containing approximately 1 % NaCl and 0,6 % rinsing agent		N/A
	Appliances with type X attachment fitted with a flexible cord as described		N/A
	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable		N/A
- T	Detachable parts are removed	女话检测	N/A
1 ST LO	Overfilling test with additional amount of the solution, over a period of 1 min (I):	- Tea res 1.	N/A
	The appliance withstands the electric strength test of 16.3		N/A
	No trace of water on insulation that can result in a reduction of clearances or creepage distances below values specified in clause 29		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdi
15.3	Appliances proof against humid conditions		N/A
	Checked by test Cab: Damp heat steady state in IEC 60068-2-78		N/A
	Detachable parts removed and subjected, if necessary, to the humidity test with the main part		N/A
	Humidity test for 48 h in a humidity cabinet		N/A
一工工	Reassembly of those parts that may have been removed	立讯检测	N/A
TANA PO	The appliance withstands the tests of clause 16	- Tos	N/A
16	LEAKAGE CURRENT AND ELECTRIC STRENGTH	1	
16.1	Leakage current not excessive and electric strength adequate		N/A
	Protective impedance disconnected from live parts before carrying out the tests		N/A
	Tests carried out at room temperature and not connected to the supply		N/A
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V)	- 川野竹	N/A
CS Testing La	Three-phase appliances: test voltage 1.06 times rated voltage divided by √3 (V)	LCS Tosting Lab	N/A
	Leakage current measurements	(see appended table)	N/A
	Limit values doubled if:		
	- all controls have an off position in all poles, or		N/A
	- the appliance has no control other than a thermal cut-out, or		N/A
	- all thermostats, temperature limiters and energy regulators do not have an off position, or		N/A
	- the appliance has radio interference filters		N/A
二工工	With the radio interference filters disconnected, the leakage current do not exceed limits specified:	(see appended table)	N/A
16.3	Electric strength tests according to table 7	(see appended table)	N/A
	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified	(see appended table)	N/A
	No breakdown during the tests		N/A
17	OVERLOAD PROTECTION OF TRANSFORMERS	AND ASSOCIATED CIRCUITS	

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	(see appended table)	N/A
	Appliance supplied with 1.06 or 0.94 times rated voltage under the most unfavourable short-circuit or overload likely to occur in normal use (V)		N/A
	Basic insulation is not short-circuited		N/A
ISI II	Temperature rise of insulation of the conductors of safety extra-low voltage circuits not exceeding the relevant value specified in table 3 by more than 15 K	LCS Tost	N/A
	Temperature of the winding not exceeding the value specified in table 8		N/A
	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1		N/A
18	ENDURANCE		
- 113	Requirements and tests are specified in part 2 when necessary	- 115	N/A
19	ABNORMAL OPERATION		
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated	LCS Tostillo	P
	Electronic circuits so designed and applied that a fault will not render the appliance unsafe	(see appended table)	Р
	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and		N/A
	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and		N/A
	if applicable, to the test of 19.5		N/A
NSI TI	Appliances incorporating PTC heating elements are also subjected to the test of 19.6	NSA 立语检测	N/A
	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable		N/A
	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable		Р

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11		N/A
	Appliances incorporating voltage selector switches subjected to the test of 19.15		N/A
	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or	.A.T	N/A
近江立	until steady conditions are established	I I William	ing Lab
102	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample	134 165	N/A
19.2	Test of appliances with heating elements with restricted heat dissipation; test voltage (V), power input of 0.85 times rated power input (W)		N/A
19.3	Test of 19.2 repeated; test voltage (V), power input of 1.24 times rated power input (W)		N/A
19.4	Test conditions as in clause 11, any control limiting the temperature during tests of clause 11 short-circuited	公司股份	N/A
19.5	Test of 19.4 repeated on Class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the sheath	LCS Testing Lab	N/A
	The test repeated with reversed polarity and the other end of the heating element connected to the sheath		N/A
	The test is not carried out on appliances intended to be permanently connected to fixed wiring and on appliances where an all-pole disconnection occurs during the test of 19.4		N/A
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	- 16T	N/A
IST I	The working voltage of the PTC heating element is increased by 5% and the appliance is operated until steady conditions are re-established. The voltage is then increased in similar steps until 1.5 times working voltage or until the PTC heating element ruptures (V)	LOS TOS	N/A
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or		N/A

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00	IEC 60335-1	100	100
Clause	Requirement + Test	Result - Remark	Verdic
	locking moving parts of other appliances		N/A
	Locked rotor, capacitors open-circuited one at a time		N/A
	Test repeated with capacitors short-circuited one at a time, unless		N/A
	the capacitor is of class S2 or S3 of IEC 60252-1		N/A
154 15	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed	TEL TESTESTI	N/A
	An electronic timer or programmer that operates to ensure compliance with the test before the maximum period under the conditions of Clause 11 is reached, is a protective electronic circuit		N/A
	Other appliances supplied with rated voltage for a period as specified		N/A
	Winding temperatures not exceeding values specified in table 8	(see appended table)	N/A
19.8	Multi-phase motors operated at rated voltage with one phase disconnected		N/A
19.9	Running overload test on appliances incorporating motors intended to be remotely or automatically controlled or liable to be operated continuously	LCS Testing Lab	NZA.
	Motor-operated and combined appliances for which 30.2.3 is applicable and that use overload protective devices relying on electronic circuits to protect the motor windings, are also subjected to the test		N/A
	Winding temperatures not exceeding values as specified	(see appended table)	N/A
19.10	Series motor operated at 1.3 times rated voltage for 1 min (V)		N/A
	During the test, parts not being ejected from the appliance		N/A
19.11	Electronic circuits, compliance checked by evaluation of the fault conditions specified in 19.11.2 for all circuits or parts of circuits, unless	LCS Testi	N/A
	they comply with the conditions specified in 19.11.1		Р
	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless		N/A
	restarting does not result in a hazard		N/A



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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdi
	Appliances having a device with an off position obtained by electronic disconnection, or a device placing the appliance in a stand-by mode, subjected to the tests of 19.11.4		N/A
	If the safety of the appliance under any of the fault conditions depends on the operation of a miniature fuse-link complying with IEC 60127, the test of 19.12 is carried out		N/A
一工工	During and after each test the following is checked:	立语检测	//
154	- the temperature of the windings do not exceed the values specified in table 8	Lea Los Is	N/A
	- the appliance complies with the conditions specified in 19.13		Р
	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4		N/A
	If a conductor of a printed board becomes open-circu considered to have withstood the particular test, provionditions are met:		
(4) 测段份	- the base material of the printed circuit board withstands the test of Annex E	10 测度份	N/A
CS Testing La	- any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29	CS Testing Lan	N/A
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to meeting both of the following conditions:	circuits or parts of circuits	
	- the electronic circuit is a low-power circuit, that is, the maximum power at low-power points does not exceed 15 W according to the tests specified		Р
	- the protection against electric shock, fire hazard, mechanical hazard or dangerous malfunction of other parts of the appliance does not rely on the correct functioning of the electronic circuit		P
19.11.2	Fault conditions applied one at a time, the appliance specified in clause 11, but supplied at rated voltage, specified:		
	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in clause 29		N/A
	b) open circuit at the terminals of any component		N/A
	c) short circuit of capacitors, unless		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdi
	they comply with IEC 60384-14		N/A
	d) short circuit of any two terminals of an electronic component, other than integrated circuits		N/A
	This fault condition is not applied between the two circuits of an optocoupler		N/A
	e) failure of triacs in the diode mode		N/A
	f) failure of microprocessors and integrated circuits	二台 测	N/A
WST I	g) failure of an electronic power switching device	USA LCS Testi	N/A
	Each low power circuit is short-circuited by connecting the low-power point to the pole of the supply source from which the measurements were made		N/A
19.11.3	If the appliance incorporates a protective electronic circuit that operates to ensure compliance with clause 19, the appliance is tested as specified		N/A
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or		N/A
ح الم	a device that can be placed in the stand-by mode,	- ID	N/A
CS Testing La	subjected to the tests of 19.11.4.1 to 19.11.4.7, the device being set in the off position or in the stand-by mode	工讯检测版 Processing Lab	N/A
	Appliances incorporating a protective electronic circuit subjected to the tests of 19.11.4.1 to 19.11.4.7, the tests being carried out after the protective electronic circuit has operated, except that		N/A
	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena.		N/A
	Surge protective devices disconnected, unless		N/A
	They incorporate spark gaps		N/A
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4	LCS Testi	N/A
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified		N/A
19.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
19.11.4.4	The power supply terminals of the appliance subjected to voltage surges in accordance with IEC 61000-4-5, test level 3 or 4 as specified		N/A
	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode		N/A
	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling		N/A
WE! I	Earthed heating elements in class I appliances disconnected	TT 立语检测	N/A
19.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3		N/A
19.11.4.6	Appliances having a rated current not exceeding 16 A are subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-11		N/A
	Appliances having a rated current exceeding 16 A are subjected to the Class 3 voltage dips and interruptions in accordance with IEC 61000-4-34		N/A
19.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2		N/A
19.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate	工讯检测股份 LCS Testing Lab	N/A
	The appliance continues to operate normally, or		N/A
	requires a manual operation to restart		N/A
19.12	If the safety of the appliance for any of the fault conditions specified in 19.11.2 depends on the operation of a miniature fuse-link complying with IEC 60127, the test is repeated, measuring the current flowing through the fuse-link; measured current (A); rated current of the fuse-link (A)		N/A
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	TSA LCS Testi	Р
	Temperature rises not exceeding the values shown in table 9	(see appended table)	Р
	Compliance with clause 8 not impaired		N/A
	If the appliance can still be operated it complies with 20.2		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdi
	Insulation, other than of class III appliances or class contain live parts, withstands the electric strength te specified in table 4:		
	- basic insulation (V)	1000	N/A
	- supplementary insulation (V)	1750	N/A
	- reinforced insulation (V)	3000	N/A
TEL T	After operation or interruption of a control, clearances and creepage distances across the functional insulation withstand the electric strength test of 16.3, the test voltage being twice the working voltage	LCS Testi	N/A
	The appliance does not undergo a dangerous malfunction, and		Р
	no failure of protective electronic circuits, if the appliance is still operable		N/A
	Appliances tested with an electronic switch in the off mode:	f position, or in the stand-by	
	- do not become operational, or		N/A
讯检测股作 cs Testing L	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4	立讯检测股份 Incs Testing Lab	N/A
	If the appliance contains lids or doors that are controlled by one or more interlocks, one of the interlocks may be released provided that:		
	- the lid or door does not move automatically to an open position when the interlock is released, and		N/A
	- the appliance does not start after the cycle in which the interlock was released		N/A
19.14	Appliances operated under the conditions of clause 11, any contactor or relay contact operating under the conditions of clause 11 being short-circuited		N/A
4	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time	女用检测	N/A
VISA V	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited	VST LCS 10	N/A
	If more than one relay or contactor operates in clause 11, they are short-circuited in turn		N/A
19.15	For appliances with a mains voltage selector switch, the switch is set to the lowest rated voltage position and the highest value of rated voltage is applied		N/A



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CS	Val ros	IEC 60335-1	LCS ICS
Clause	Requirement + Test	Result - Remark	Verdict

20	STABILITY AND MECHANICAL HAZARDS		
20.1	Appliances having adequate stability	Hand-held appliance	N/A
	Tilting test through an angle of 10°, appliance placed on an inclined plane/horizontal support, not connected to the supply mains; appliance does not overturn		N/A
_ 11	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	立 语检测	N/A
Asi Lo	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9	- LCS TON	N/A
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury		N/A
	Protective enclosures, guards and similar parts are non-detachable, and		N/A
	have adequate mechanical strength		N/A
	Enclosures that can be opened by overriding an interlock are considered to be detachable parts		N/A
·讯检测股份 CS Testing La	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure	工活检测股份 LCS Testing Lab	N/A
	Not possible to touch dangerous moving parts with the test probe described		N/A
21	MECHANICAL STRENGTH		
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling		Р
	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J	(see appended table)	Р
一工工	The appliance shows no damage impairing compliance with this standard, and	立流检测	Р
The ro	compliance with 8.1, 15.1 and clause 29 not impaired	100	Р
	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3		Р
	If necessary, repetition of groups of three blows on a new sample		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements		N/A
	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm		N/A
	The insulation is tested as specified, and does withstand the electric strength test of 16.3		N/A
22	CONSTRUCTION		
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	IPX0	N/A
22.2	Stationary appliance: means to ensure all-pole disco provided:	nnection from the supply being	
	- a supply cord fitted with a plug, or		N/A
	- a switch complying with 24.3, or		N/A
	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or		N/A
工绘测股份	- an appliance inlet	元会测股份	N/A
CS Testing L	Singe-pole switches and single-pole protective devices for the disconnection of heating elements in single-phase, permanently connected class 01 and class I appliances, connected to the phase conductor	LCS Testing L	N/A
22.3	Appliance provided with pins: no undue strain on socket-outlets		N/A
	Applied torque not exceeding 0.25 Nm		N/A
	Pull force of 50N to each pin after the appliance has being placed in the heating cabinet; when cooled to room temperature the pins are not displaced by more than 1mm		N/A
NET LO	Each pin subjected to a torque of 0.4Nm; the pins are not rotating, unless	INST 立语情况	N/A
	rotating does not impair compliance with this standard		N/A
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
22.5	No risk of electric shock when touching pins, for appliances having a capacitor with rated capacitance equal to or greater than $0.1\mu F$, the appliance being disconnected from the supply at the instant of voltage peak		N/A
	Voltage not exceeding 34 V (V)		N/A
一工工	If compliance relies on the operation of an electronic circuit, the electromagnetic phenomena tests of 19.11.4.3 and 19.11.4.4 are applied	立讯检测	N/A
1/2/1	The discharge test is then repeated three times, voltage not exceeding 34 V (V)	Tos Ice	N/A
22.6	Electrical insulation not affected by condensing water or leaking liquid		N/A
	Electrical insulation of Class II appliances not affected if a hose ruptures or seal leaks		N/A
	In case of doubt, test as described		N/A
22.7	Adequate safeguards against the risk of excessive pressure in appliances containing liquid or gases or having steam-producing devices	- 115	N/A
22.8	Electrical connections not subject to pulling during cleaning of compartments to which access can be gained without the aid of a tool, and that are likely to be cleaned in normal use	工讯检测版记 LCS Testing Lab	N/A
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless		Р
	the substance has adequate insulating properties		N/A
22.10	Not possible to reset voltage-maintained non-self- resetting thermal cut-outs by the operation of an automatic switching device incorporated within the appliance, if:		N/A
_ 1	- a non-self-resetting thermal cut-out is required by the standard, and	- 古田俭测	N/A
1 ST	- a voltage maintained non-self-resetting thermal cut-out is used to meet it	TSA LCS TO	N/A
	Non-self-resetting thermal motor protectors have a trip-free action, unless		N/A
	they are voltage maintained		N/A

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	IEC 60335-1	14	
Clause	Requirement + Test	Result - Remark	Verdic
	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely		N/A
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts		N/A
	Obvious locked position of snap-in devices used for fixing such parts		N/A
TE I	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	LCS Testi	N/A
	Tests as described		N/A
22.12	Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard		Р
	Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard		Р
	A choking hazard does not apply to appliances for commercial use	115	N/A
讯位测股协 Sectional La	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	工语检测限203 工语检测B2D3	N/A
	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	For handle	Р
	If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard		N/A
22.13	Unlikely that handles, when gripped as in normal use, make the operator's hand touch parts having a temperature rise exceeding the value specified for handles which are held for short periods only		Р
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance	(m²-c)	Р
	No exposed pointed ends of self-tapping screws or other fasteners, likely to be touched by the user in normal use or during user maintenance	LCS Testi	Р
22.15	Storage hooks and the like for flexible cords smooth and well rounded	No storage hooks	N/A
*22.16	Automatic cord reels cause no undue abrasion or damage to the sheath of the flexible cord, no breakage of conductors strands and no undue wear of contacts	No automatic cord reels	N/A

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Page 28 of 111 REPORT NO.: LCSA040323267S001 IEC 60335-1 Clause Requirement + Test Result - Remark Verdict Cord reel tested with 6000 operations, as specified N/A Electric strength test of 16.3, voltage of 1000 V N/A applied 22.17 Spacers not removable from the outside by hand or N/A by means of a screwdriver or a spanner Ρ 22.18 Current-carrying parts and other metal parts resistant to corrosion 22.19 Driving belts not relied upon to provide the required No driving belts N/A level of insulation, unless constructed to prevent inappropriate replacement N/A 22.20 Direct contact between live parts and thermal N/A insulation effectively prevented, unless material used is non-corrosive, non-hygroscopic N/A and non-combustible 22.21 Ρ Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless impregnated N/A N/A This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements 22.22 Appliances not containing asbestos Ρ 22.23 Oils containing poly chlorinated biphenyl (PCB) not N/A used 22.24 Bare heating elements, except in class III N/A appliances or class III constructions that do not contain live parts, adequately supported In case of rupture, the heating conductor is unlikely N/A to come in contact with accessible metal parts 22.25 Sagging heating conductors, except in class III N/A appliances or class III constructions that do not contain live parts, cannot come into contact with

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22.26

22.27

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Parts connected by protective impedance

separated by double or reinforced insulation

For class III constructions the insulation between

parts operating at safety extra-low voltage and other live parts complies with the requirements for double

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accessible metal parts

or reinforced insulation



N/A



REPORT NO.: LCSA040323267S001 IEC 60335-1 Clause Requirement + Test Result - Remark Verdict 22.28 Metal parts of Class II appliances conductively N/A connected to gas pipes or in contact with water, separated from live parts by double or reinforced insulation 22.29 Class II appliances permanently connected to fixed N/A wiring so constructed that the required degree of access to live parts is maintained after installation 22.30 Parts serving as supplementary or reinforced N/A insulation fixed so that they cannot be removed without being seriously damaged, or so constructed that they cannot be replaced in an N/A incorrect position, and so that if they are omitted, the appliance is rendered inoperable or manifestly incomplete 22.31 Neither clearances nor creepage distances over N/A supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear N/A Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws etc. become loose 22.32 N/A Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29 Supplementary insulation of natural or synthetic N/A rubber resistant to ageing, or arranged and dimensioned so that creepage distances are not reduced below values specified in 29.2 Ceramic material not tightly sintered, similar N/A materials or beads alone not used as supplementary or reinforced insulation Ceramic and similar porous material in which N/A heating conductors are embedded is considered to be basic insulation, not reinforced insulation N/A Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature

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22.33

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Conductive liquids that are or may become

are not in direct contact with live parts, or

accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts

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IEC 60335-1



Requirement + Test

basic insulation only

Electrodes not used for heating liquids

basic or reinforced insulation, unless

with reinforced insulation, unless

For other than class III constructions, handles,

Such parts being of metal, and their shafts or

This requirement does not apply to handles, levers and knobs on stationary appliances and cordless

components, provided they are reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal

Insulating material covering metal handles, levers

and knobs withstand the electric strength test of

appliances, other than those of electrical

16.3 for supplementary insulation

bridged by leaking liquid

supplementary insulation

live, unless

insulation

Clause

22.34

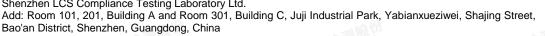
22.35

REPORT NO.: LCSA040323267S001 Result - Remark Verdict unearthed metal parts separated from live parts by N/A N/A For class II constructions, conductive liquids that N/A are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts, not in direct contact with the reinforced insulation consists of at least 3 layers N/A For class II constructions, conductive liquids which N/A are in contact with live parts, not in direct contact the reinforced insulation consists of at least 3 layers N/A N/A An air layer not used as basic or supplementary insulation in a double insulation system if likely to be Shafts of operating knobs, handles, levers etc. not Ρ the shaft is not accessible when the part is removed N/A N/A levers and knobs, held or actuated in normal use, not becoming live in the event of a failure of basic N/A fixings are likely to become live in the event of a failure of basic insulation, are either adequately covered by insulation material or their accessible parts are separated from their shafts or fixings by

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CS Tost	IEC 60335-1	TCE TOST	LCS
Clause	Requirement + Test	Result - Remark	Verdict
22.36	For appliances other than class III, handles continuously held in the hand in normal use so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless		N/A
	they are separated from live parts by double or reinforced insulation		N/A
22.37	Capacitors in Class II appliances not connected to accessible metal parts and their casings, if of metal, separated from accessible metal parts by supplementary insulation, unless	LCS TOSTI	N/A
	the capacitors comply with 22.42		N/A
22.38	Capacitors not connected between the contacts of a thermal cut-out		N/A
22.39	Lamp holders used only for the connection of lamps		N/A
22.40	Motor-operated appliances and combined appliances intended to be moved while in operation, or having accessible moving parts, fitted with a switch to control the motor. The actuating member of the switch being easily visible and accessible		N/A
讯粒测加 CS Testing La	If the appliance cannot operate continuously, automatically or remotely without giving rise to a hazard, appliances for remote operation being fitted with a switch for stopping the operation. The actuating member of the switch being easily visible and accessible	工语标识明 Lab LCS Testing Lab	N/A
22.41	No components, other than lamps, containing mercury		Р
22.42	Protective impedance consisting of at least two separate components		N/A
	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited	- 70	N/A
1151 11	Resistors checked by the test of 14.1 a) in IEC 60065	LOS TOSTI	N/A
	Capacitors checked by the tests for class Y capacitors in IEC 60384-14		N/A
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
22.44	Appliances not having an enclosure that is shaped or decorated like a toy		Р
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the enclosure		N/A
*22.46	For programmable protective electronic circuits used to ensure compliance with the standard, the software contains measures to control the fault/error conditions in table R.1	NSG 立语检测	N/A
	Software that contains measures to control the fault/error conditions specified in table R.2 is to be specified in parts 2 for particular constructions or to address specific hazards		N/A
	These requirements are not applicable to software used for functional purpose or compliance with clause 11		N/A
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use		N/A
四检测股份	No leakage from any part, including any inlet water hose	工检测股份	N/A
*22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non-potable water	LCS Testing 5	N/A
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless		N/A
	the appliance switches off automatically or can operate continuously without hazard		N/A
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation		N/A
22.51	There is a control on the appliance manually adjusted to the setting for remote operation before the appliance can be operated in this mode	- to 70	N/A
AST IN	There is a visual indication showing that the appliance is adjusted for remote operation	LCS Testi	N/A
	These requirements not necessary on appliances the without giving rise to a hazard:	at can operate as follows,	
	- continuously, or		N/A
	- automatically, or		N/A
	- remotely		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
22.52	Socket-outlets on appliances accessible to the user in accordance with the socket-outlet system used in the country in which the appliance is sold		N/A
22.53	Class II appliances and class III appliances that incorporate functionally earthed parts have at least double insulation or reinforced insulation between live parts and the functionally earthed parts		N/A
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless	工 用检测	N/A
1 ST IC	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously	Par res	N/A
22.55	Devices operated to stop the intended function of the appliance, if any, are be distinguished from other manual devices by means of shape, size, surface texture or position		Р
	The requirement concerning position does not preclude use of a push on push off switch		Р
	An indication when the device has been operated is	given by:	
讯检测股份	tactile feedback from the actuator or from the appliance, or	在讯检测股份	N/A
CS Tess	- reduction in heat output; or	rca Leas.	Р
	- audible and visible feedback		N/A
22.56	Detachable power supply part provided with the part of class III construction		N/A
22.57	The properties of non-metallic materials do not degrade from exposure to UV-C radiation, as specified in Annex T		N/A
	This requirement does not apply to glass, ceramics or similar materials		N/A
23	INTERNAL WIRING		
23.1	Wireways smooth and free from sharp edges	立讯检测	Р
- February	Wires protected against contact with burrs, cooling fins etc.	Tes res	Р
	Wire holes in metal well-rounded or provided with bushings		N/A
	Wiring effectively prevented from coming into contact with moving parts		N/A

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00	IEC 60335-1	The state of the s	LCs.
Clause	Requirement + Test	Result - Remark	Verdi
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges		N/A
	Beads inside flexible metal conduits contained within an insulating sleeve		N/A
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress		N/A
以	Flexible metallic tubes not causing damage to insulation of conductors	T T T T T T T T T T T T T T T T T T T	N/A
100	Open-coil springs not used	100	N/A
	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another		N/A
	No damage after 10 000 flexings for conductors flexed during normal use, or		N/A
	100 flexings for conductors flexed during user maintenance		N/A
	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts		N/A
:讯检测股份	Not more than 10% of the strands of any conductor broken, and	立语检测度份 立语检测度Lab	N/A
ics 10	not more than 30% for wiring supplying circuits that consume no more than 15W	rce ie.	N/A
23.4	Bare internal wiring sufficiently rigid and fixed		N/A
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use		N/A
	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or		N/A
_ 11.	no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation	- 女讯检测	N/A
1 ST LO	For class II construction, the requirements for supplementary insulation and reinforced insulation apply,	187 Cestes	N/A
	Except that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation.		N/A
	A single layer of internal wiring insulation does not provide reinforced insulation		N/A



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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or		N/A
	be such that it can only be removed by breaking or cutting		N/A
23.7	The colour combination green/yellow only used for earthing conductors		N/A
23.8	Aluminium wires not used for internal wiring	上 讯检测	Р
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless	LCS Test	N/A
	the contact pressure is provided by spring terminals		N/A
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, at least equivalent to that of light polyvinyl chloride sheathed flexible cord (60227 IEC 52)		N/A
24	COMPONENTS		
24.1	Components comply with safety requirements in relevant IEC standards	上语检测股份 Lab	Р
CS Testing	List of components	(see appended table)	Р
	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance		N/A
	Relays tested as part of the appliance, or		N/A
	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1		N/A
	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance		Р
T	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard	女讯检测	Р
189 10	30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections	LCS 1	Р
	Components that have not been previously tested to comply with the IEC standard for the relevant component are tested according to the requirements of 30.2		Р

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,00	IEC 60335-1	100	1 100
Clause	Requirement + Test	Result - Remark	Verdi
	Components that have been previously tested to comply with the resistance to fire requirements in the IEC standard for the relevant component need not be retested provided the specified conditions are met		N/A
	If these conditions are not satisfied, the component is tested as part of the appliance.		Р
NSI TI	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance	TH THE THE THE THE THE THE THE THE THE T	N/A
	If components have not been tested and found to comply with relevant IEC standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		Р
	For components mentioned in 24.1.1 to 24.1.9 no additional tests specified in the relevant component standard are necessary other than those specified in 24.1.1 to 24.1.9		Р
讯检测股份	Components not tested and found to comply with relevant IEC standard and components not marked or not used in accordance with its marking, tested under the conditions occurring in the appliance	大讯检测股份	Р
CS Lesing Fo	Lampholders and starterholders that have not being tested and found to comply with the relevant IEC standard, tested as a part of the appliance and additionally according to the gauging and interchangeability requirements of the relevant IEC standard	CC Tes.	N/A
	No additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of IEC 60320-1 and IEC 60309		N/A
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, comply with IEC 60384-14	工活检测	N/A
100	If the capacitors have to be tested, they are tested according to Annex F	100	N/A
24.1.2	Transformers in associated switch mode power supplies comply with Annex BB of IEC 61558-2-16		N/A
	Safety isolating transformers comply with IEC 61558-2-6		N/A

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N/A

CS Toeting	154 (C5 Tookilla	- MS/I	1 CS Tostilis	A LCS T
	IEC 6033	5-1		1,, ,,
Clause	Requirement + Test		Result - Remark	Verdic
	If they have to be tested, they are tested accord to Annex G	cording		N/A
24.1.3	Switches comply with IEC 61058-1, the num cycles of operation being at least 10 000	nber of		N/A
	If they have to be tested, they are tested acc to Annex H	cording		N/A
ڊ بند	If the switch operates a relay or contactor, the complete switching system is subjected to the		古 祖检测	N/A
Tel ro	If the switch only operates a motor staring recomplying with IEC 60730-2-10 with the nurcycles of a least 10 000 as specified, the coswitching system need not be tested	mber of	157 LCS Test	N/A
24.1.4	Automatic controls comply with IEC 60730-cycles of operation being at least:	1 with the	relevant part 2. The number of	
	- thermostats:	10 000		N/A
	- temperature limiters:	1 000		N/A
	- self-resetting thermal cut-outs:	300		N/A
7 绘测股份	- voltage maintained non-self-resetting thermal cut-outs:	1 000	全测股份	NA
S Testing La	- other non-self-resetting thermal cut-outs:	30	Timesting Las	N/A
	- timers:	3 000	15	NA
	- energy regulators:	10 000		N/A
	The number of cycles for controls operating clause 11 need not be declared, if the applia meets the requirements of this standard what are short-circuited	ance		N/A
	Thermal motor protectors are tested in com with their motor under the conditions specificannex D			N/A
E T	For water valves containing live parts and the incorporated in external hoses for connection appliance to the water mains, the degree of protection declared for subclause 6.5.2 of IE 60730-2-8 is IPX7	on of an	LCS Testi	N/A
	Thermal cut-outs of the capillary type complete requirements for type 2.K controls in IEC 60730-2-9			N/A
	A "	4		21/2

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24.1.5

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Appliance couplers comply with IEC 60320-1

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
	However, for class II appliances classified higher than IPX0, the appliance couplers comply with IEC 60320-2-3		N/A
	Interconnection couplers comply with IEC 60320-2-2		N/A
24.1.6	Small lamp holders similar to E10 lampholders comply with IEC 60238, the requirements for E10 lampholders being applicable		N/A
24.1.7	For remote operation of the appliance via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151	LCS Testi	N/A
24.1.8	The relevant standard for thermal links is IEC 60691		N/A
	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19		N/A
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance		N/A
·····································	They are also tested in accordance with Clause 17 of IEC 60730-1, the number of cycles of operations in 24.1.4 selected according to the contactor or relay function in the appliance	立讯检测股份 LCS Testing Lab	N/A
24.2	Appliances not fitted with:		
	- switches, automatic controls or power supplies in flexible cords		N/A
	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance		N/A
	- thermal cut-outs that can be reset by soldering, unless		N/A
	the solder has a melding point of at least 230 °C		N/A
24.3	Switches intended for all-pole disconnection of stationary appliances are directly connected to the supply terminals and have a contact separation in all poles, providing full disconnection under overvoltage category III conditions	LCS Testi	N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1		N/A
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance, and used accordingly	上 油 检测	N/A
TET I	Voltage across capacitors in series with a motor winding does not exceed 1,1 times rated voltage, when the appliance is supplied at 1,1 times rated voltage under minimum load	LCS Test	N/A
24.6	Working voltage of motors connected to the supply mains and having basic insulation that is inadequate for the rated voltage of the appliance, not exceeding 42 V		N/A
	In addition, the motors comply with the requirements of Annex I		N/A
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770	(1) 图 (1)	N/A
语型 King La	They are supplied with the appliance	Tilliang Lab	N/A
Çə	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set	Tr.	N/A
24.8	Motor running capacitors in appliances for which 30.2.3 is applicable and that are permanently connected in series with a motor winding, not causing a hazard in event of a failure		N/A
	One or more of the following conditions are to be me	et:	
	- the capacitors are of class S2 or S3 according to IEC 60252-1		N/A
T	- the capacitors are housed within a metallic or ceramic enclosure	工用检测	N/A
130	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm	TEN TOO	N/A
	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E		N/A
	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10		N/A

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IEC 60335-1 Clause Requirement + Test Result - Remark Verdict

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25	SUPPLY CONNECTION AND EXTERNAL FLEXIBI	LE CORDS	
25.1	Appliance not intended for permanent connection to fixed wiring, means for connection to the supply:		
	- supply cord fitted with a plug, the current rating and voltage rating of the plug being not less than the corresponding ratings of its associated appliance		N/A
	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or	NSA 立法检测	N/A
	- pins for insertion into socket-outlets		N/A
25.2	Appliance not provided with more than one means of connection to the supply mains		N/A
	Stationary appliance for multiple supply may be provided with more than one means of connection, provided electric strength test of 1250 V for 1 min between each means of connection causes no breakdown		N/A
25.3	Appliance intended to be permanently connected to the following means for connection to the supply main		N/A
CS Testing La	- a set of terminals allowing the connection of a flexible cord	Tin Michig Lab	N/A
	- a fitted supply cord		N/A
	- a set of supply leads accommodated in a suitable compartment		N/A
	- a set of terminals for the connection of cables of fixed wiring, cross-sectional areas specified in 26.6, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support		N/A
TE I	- a set of terminals and cable entries, conduit entries, knock-outs or glands, allowing connection of appropriate types of cable or conduit, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support	LCS Tost	N/A
	For a fixed appliance constructed so that parts can be removed to facilitate easy installation, this requirement is met if it is possible to connect the fixed wiring without difficulty after a part of the appliance has been fixed to its support		N/A

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25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to table 10 (mm)		N/A
	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in clause 29		N/A
25.5	Method for assembling the supply cord to the appliar	nce:	
بد	- type X attachment	上田拉河	N/A
Media	- type Y attachment	LCS Test	N/A
	- type Z attachment, if allowed in relevant part 2		N/A
	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords		N/A
	For multi-phase appliances supplied with a supply cord and that are intended to be permanently connected to fixed wiring, the supply cord is assembled to the appliance by type Y attachment		N/A
25.6	Plugs fitted with only one flexible cord		N/A
25.7	Supply cords, other than for class III appliances, beir	ng one of the following types:	N/A
CS Testing La	- rubber sheathed (at least 60245 IEC 53)	II William Land	N/A
	- polychloroprene sheathed (at least 60245 IEC 57)	1	N/A
	- polyvinyl chloride sheathed. Not used if they are like a temperature rise exceeding 75 K during the test of		
	 light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg 		N/A
	 ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances 		N/A
	- heat resistant polyvinyl chloride sheathed. Not used than specially prepared cords	d for type X attachment other	
TEAT I	heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg	LCS Test	N/A
	heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances		N/A
	- halogen-free, low smoke, thermoplastic insulated a	nd sheathed	

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Clause	Requirement + Test	Result - Remark	Verdi
	light duty halogen-free low smoke flexible cable (62821 IEC 101) for circular cable and (62821 IEC 101f) for flat cable		N/A
	Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102) for circular cable and (62821 IEC 102f(for flat cable)		N/A
	Supply cords for class III appliances adequately insulated	四岭测	N/A
PET I	Test with 500 V for 2 min for supply cords of class III appliances that contain live parts	LCS Test	N/A
25.8	Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm²)		N/A
25.9	Supply cords not in contact with sharp points or edges		N/A
25.10	Supply cord of class I appliances have a green/yellow core for earthing		N/A
0.5	In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue	100	N/A
祖检测股份	Where additional neutral conductors are provided in	the supply cord:	N/A
CS Testins	 other colours may be used for these additional neutral conductors; 	LCS Tosti	N/A
	 all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 		N/A
	- the supply cord is fitted to the appliance		N/A
25.11	Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless		N/A
	the contact pressure is provided by spring terminals		N/A
25.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure	立	N/A
25.13	Inlet openings so constructed as to prevent damage to the supply cord	Way I'ca	N/A
	If it is not evident that the supply cord can be introduced without risk of damage, a non-detachable lining or bushing complying with 29.3 for supplementary insulation provided		N/A
	If unsheathed supply cord, a similar additional bushing or lining is required, unless the appliance is		N/A



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.03	IEC 60335-1	100	Los
Clause	Requirement + Test	Result - Remark	Verdic
	class 0, or		N/A
	a class III appliance not containing live parts		N/A
25.14	Supply cords moved while in operation adequately protected against excessive flexing		N/A
	Flexing test, as described:	,	
	- applied force (N)	10N	N/A
_ 11	- number of flexings:	10000	N/A
MSI L	The test does not result in:	LCS TOS	
	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current		N/A
	- breakage of more than 10% of the strands of any conductor		N/A
	- separation of the conductor from its terminal		N/A
	- loosening of any cord guard		N/A
	- damage to the cord or the cord guard		N/A
公訓股份	- broken strands piercing the insulation and becoming accessible	公测股份	N/A
25.15	For appliances with supply cord and appliances to be permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relieved from strain, wisting and abrasion by use of cord anchorage	LCS Testing Lan	N/A
	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged		N/A
	Pull and torque test of supply cord:		
	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm)		N/A
NS I	- other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel) (Nm)	IISA 立语检测	N/A
100	Cord not damaged and max. 2 mm displacement of the cord	0mm	N/A
25.16	Cord anchorages for type X attachments constructed	and located so that:	
	- replacement of the cord is easily possible		N/A
	- it is clear how the relief from strain and the prevention of twisting are obtained		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdi
	- they are suitable for different types of supply cord		N/A
	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless		N/A
	they are separated from accessible metal parts by supplementary insulation		N/A
	- the cord is not clamped by a metal screw which bears directly on the cord	10	N/A
がまず	- at least one part of the cord anchorage securely fixed to the appliance, unless	15 LCS Testi	N/A
	it is part of a specially prepared cord		N/A
	- screws which have to be operated when replacing the cord do not fix any other component, unless		N/A
	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool		N/A
	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood		N/A
一绘测股份	- for class 0, 0I and I appliances they are of insulating material or are provided with an insulating lining, unless	一	N/A
CS Testing La	failure of the insulation of the cord does not make accessible metal parts live	LCS Testing Las	N/A
	- for class II appliances they are of insulating material, or		N/A
	if of metal, they are insulated from accessible metal parts by supplementary insulation		N/A
	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals		N/A
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance	- A-C - TIME - A-C -	N/A
25.18	Cord anchorages only accessible with the aid of a tool, or	LCS Testi	N/A
	Constructed so that the cord can only be fitted with the aid of a tool		N/A
25.19	Type X attachment, glands not used as cord anchorage in portable appliances		N/A
	Tying the cord into a knot or tying the cord with string not used		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
25.20	The conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts		N/A
25.21	Space for supply cord for type X attachment or for constructed:	onnection of fixed wiring	
	- to permit checking of conductors with respect to correct positioning and connection before fitting any cover		N/A
以 夏草	- so there is no risk of damage to the conductors or their insulation when fitting the cover	TS 工用检测	N/A
	- for portable appliances, so that the uninsulated end of a conductor, if it becomes free from the terminal, prevented from contact with accessible metal parts		N/A
	2 N test to the conductor for portable appliances; no contact with accessible metal parts		N/A
25.22	Appliance inlets:		
	- live parts not accessible during insertion or removal		N/A
四检测股份	Requirement not applicable to appliance inlets complying with IEC 60320-1	- 用检测股份	N/A
CS Testing	- connector can be inserted without difficulty	LCS Testing	N/A
	- the appliance is not supported by the connector		N/A
	- not for cold conditions if temp. rise of external metal parts exceeds 75 K during clause 11, unless		N/A
	the supply cord is unlikely to touch such metal parts		N/A
25.23	Interconnection cords comply with the requirements	for the supply cord, except that:	
	- the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11		N/A
	- the thickness of the insulation may be reduced	liter.	N/A
TET LO	- for class I or class II appliance with class III construction, the cross sectional areas of the conductors need not comply with 25.8 if specified conditions are met	LCS Testi	N/A
	If necessary, electric strength test of 16.3		N/A
25.24	Interconnection cords not detachable without the aid of a tool if compliance with this standard is impaired when they are disconnected		N/A

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Clause	Requirement + Test	Result - Remark	Verdi
25.25	Dimensions of pins that are inserted into socket- outlets compatible with the dimensions of the relevant socket-outlet.		N/A
	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083		N/A
26	TERMINALS FOR EXTERNAL CONDUCTORS		
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors	LCS Testi	N/A
	Terminals only accessible after removal of a non- detachable cover, except		N/A
	for class III appliances that do not contain live parts		N/A
	Earthing terminals may be accessible if a tool is required to make the connections and means are provided to clamp the wire independently from its connection		N/A
26.2	Appliances with type X attachment and appliances for the connection of cables of fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless	在讯检测股份 tinglab	N/A
CS Tes	the connections are soldered	rce 102	N/A
	Screws and nuts not used to fix any other component, except		N/A
	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors		N/A
	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless		N/A
TEL T	barriers provided so that neither clearances nor creepage distances between live parts and other metal parts reduced below the values for supplementary insulation if the conductor becomes free at the soldered joint	LCS Testi	N/A
26.3	Terminals for type X attachment and for connection of cables of fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure but without damaging the conductor		N/A
	Terminals fixed so that when the clamping means is	tightened or loosened:	

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IEC 60335-1 Clause Requirement + Test Result - Remark Verdict the terminal does not become loose N/A - internal wiring is not subjected to stress N/A N/A neither clearances nor creepage distances are reduced below the values in clause 29 Compliance checked by inspection and by the test N/A of subclause 9.6 of IEC 60999-1, the torque applied being equal to two-thirds of the torque specified (Nm): N/A No deep or sharp indentations of the conductors 26.4 Terminals for type X attachment, except those N/A having a specially prepared cord and those for the connection of cables of fixed wiring, no special preparation of conductors such as by soldering, use of cable lugs, eyelets or similar, and so constructed or placed that conductors prevented N/A from slipping out when clamping screws or nuts are tightened 26.5 Terminals for type X attachment so located or N/A shielded that if a wire of a stranded conductor escapes, no risk of accidental connection to other parts that result in a hazard Stranded conductor test, 8 mm insulation removed N/A No contact between live parts and accessible metal N/A parts and, for class II constructions, between live parts and N/A metal parts separated from accessible metal parts by supplementary insulation only Terminals for type X attachment and for connection 26.6 N/A of cables of fixed wiring suitable for connection of conductors with cross-sectional area according to table 13; rated current (A); nominal cross-sectional area (mm²).....: If a specially prepared cord is used, terminals need N/A only be suitable for that cord 26.7 Terminals for type X attachment, except in class III N/A appliances not containing live parts, accessible after removal of a cover or part of the enclosure 26.8 Terminals for the connection of fixed wiring, N/A including the earthing terminal, located close to

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each other



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REPORT NO.: LCSA040323267S001 IEC 60335-1 Clause Requirement + Test Result - Remark Verdict 26.9 Terminals of the pillar type constructed and located N/A as specified Terminals with screw clamping and screwless 26.10 N/A terminals not used for flat twin tinsel cords, unless conductors ends fitted with means suitable for N/A screw terminals Pull test of 5 N to the connection N/A 26.11 For type Y and Z attachment, soldered, welded, N/A crimped or similar connections may be used For Class II appliances, the conductor so positioned N/A or fixed that reliance is not placed on soldering, welding or crimping alone If soldering, welding or crimping alone used, N/A barriers provided so that clearances and creepage distances between live parts and other metal parts are not reduced below the values for supplementary insulation if the conductor becomes free 27 PROVISION FOR EARTHING 27.1 Accessible metal parts of Class 0I and I appliances N/A permanently and reliably connected to an earthing terminal or earthing contact of the appliance inlet Earthing terminals and earthing contacts not N/A connected to the neutral terminal Class 0, II and III appliances have no provision for Class III Ρ protective earthing N/A Class II appliances and class III appliances can incorporate an earth for functional purposes Safety extra-low voltage circuits not earthed, unless N/A protective extra-low voltage circuits N/A 27.2 Clamping means of earthing terminals adequately N/A secured against accidental loosening Terminals for the connection of external N/A equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm², and N/A do not provide earthing continuity between

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a tool



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- conductors cannot be loosened without the aid of

different parts of the appliance, and

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N/A



IEC 60335-1 Clause Requirement + Test Result - Remark Verdict Requirements not applicable to class II appliances N/A and class III appliances that incorporate an earth for functional purposes For a detachable part having an earth connection 27.3 N/A and being plugged into another part of the appliance, the earth connection is made before and separated after current-carrying connections when removing the part For appliances with supply cords, current-carrying N/A conductors become taut before earthing conductor, if the cord slips out of the cord anchorage Requirements not applicable to class II appliances N/A and class III appliances that incorporate an earth for functional purposes 27.4 No risk of corrosion resulting from contact between N/A parts of the earthing terminal and the copper of the earthing conductor or other metal N/A Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion If of steel, these parts provided with an electroplated coating with a thickness at least 5 µm Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure In the body of the earthing terminal is a part of a N/A frame or enclosure of aluminium or aluminium alloys, precautions taken to avoid risk of corrosion Requirements not applicable to class II appliances N/A and class III appliances that incorporate an earth for functional purposes 27.5 Low resistance of connection between earthing N/A terminal and earthed metal parts This requirement does not apply to connections N/A providing earthing continuity in the protective extralow voltage circuit, provided the clearances of basic insulation are based on the rated voltage of the appliance Requirements not applicable to class II appliances N/A and class III appliances that incorporate an earth for functional purposes

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Clause	Requirement + Test	Result - Remark	Verdic
	Resistance not exceeding 0,1 Ω at the specified low-resistance test (Ω)		N/A
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand-held appliances.		N/A
_ Ť	They may be used to provide earthing continuity in other appliances if at least two tracks are used with independent soldering points and the appliance complies with 27.5 for each circuit	立 讯 检测	N/A
Tea ro	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	Ved res in	N/A
28	SCREWS AND CONNECTIONS		
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses		N/A
	Screws not of soft metal liable to creep, such as zinc or aluminium		N/A
一绘测股份	Diameter of screws of insulating material min. 3 mm	4年测股份	N/A
CS Testing La	Screws of insulating material not used for any electrical connections or connections providing earthing continuity	LCS Testing Lan	N/A
	Screws used for electrical connections or connections providing earthing continuity screwed into metal		N/A
	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation		N/A
T	For type X attachment, screws to be removed for replacement of supply cord or for user maintenance, not of insulating material if their replacement by a metal screw impairs basic insulation	立话检测	N/A
- Lo	For screws and nuts; torque-test as specified in table 14	(see appended table)	N/A
28.2	Electrical connections and connections providing earthing continuity constructed so that contact pressure is not transmitted through non-ceramic insulating material liable to shrink or distort, unless		N/A

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Tive Testing Lo	IIII	I Washing La	TIM
Ca ,	IEC 60335-1	rcs .	A rea
Clause	Requirement + Test	Result - Remark	Verdi
	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material		N/A
	This requirement does not apply to electrical connector which:	tions in circuits of appliances	
	30.2.2 is applicable and that carry a current not exceeding 0,5 A		N/A
以51 立	30.2.3 is applicable and that carry a current not exceeding 0,2 A	TSG TOST	N/A
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together		N/A
	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread		N/A
	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer		N/A
讯检测股份	Thread-cutting, thread rolling and space threaded so connections providing earthing continuity provided it connection:		
CS Test	- in normal use,	rca 1 see	N/A
	- during user maintenance,		N/A
	- when replacing a supply cord having a type X attachment, or		N/A
	- during installation		N/A
	At least two screws being used for each connection providing earthing continuity, unless		N/A
	the screw forms a thread having a length of at least half the diameter of the screw		N/A
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity	LCS Testi	N/A
	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or		N/A
	if an alternative earthing circuit is provided		N/A
	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion		N/A



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29	CLEARANCES, CREEPAGE DISTANCES AND SO	LID INSULATION	
	Clearances, creepage distances and solid insulation withstand electrical stress		Р
	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), Annex J applies		N/A
- 41	The microenvironment is pollution degree 1 under type 1 protection	- 古田检測	N/A
TEG TO	For type 2 protection, the spacing between the conductors before the protection is applied is not less than the values specified in Table 1 of IEC 60664-3	LCS TOSK	N/A
	These values apply to functional, basic, supplementary and reinforced insulation		Р
29.1	Clearances not less than the values specified in table 16, taking into account the rated impulse voltage for the overvoltage categories of table 15, unless	(see appended table)	Р
40测股份	for basic insulation and functional insulation they comply with the impulse voltage test of clause 14	公测股份	N/A
CS Testing La	However, if the distances are affected by wear, distortion, movement of the parts or during assembly, the clearances for rated impulse voltages of 1500V and above are increased by 0,5 mm and the impulse voltage test is not applicable	LCS Testing La	N/A
	For appliances intended for use at altitudes exceeding 2 000 m, the clearances in Table 16 is increased according to the relevant multiplier values in Table A.2 of IEC 60664-1		N/A
	Impulse voltage test is not applicable:		
	- when the microenvironment is pollution degree 3, or		N/A
以気が	- for basic insulation of class 0 and class 01 appliances, or	VST CSTOSII	N/A
	- to appliances intended for use at altitudes exceeding 2 000 m		N/A
	Appliances are in overvoltage category II		Р
	A force of 2 N is applied to bare conductors, other than heating elements	No bare conductors	N/A
	A force of 30 N is applied to accessible surfaces		Р

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage		N/A
	The values of table 16 or the impulse voltage test of clause 14 are applicable	(see appended table)	N/A
	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1		N/A
WET IN	Lacquered conductors of windings considered to be bare conductors	IST LCS Test	N/A
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16:	(see appended table)	N/A
29.1.3	Clearances of reinforced insulation not less than those specified for basic insulation in table 16, using the next higher step for rated impulse voltage:	(see appended table)	N/A
ars (H)	For double insulation, with no intermediate conductive part between basic and supplementary insulation, clearances are measured between live parts and the accessible surface, and the insulation system is treated as reinforced insulation	ars 44	N/A
29.1.4	Clearances for functional insulation are the largest values determined from:		
CS Tes	- table 16 based on the rated impulse voltage:	(see appended table)	Р
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A
	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz		N/A
	If values of table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless		N/A
	the microenvironment is pollution degree 3, or		N/A
	the distances can be affected by wear, distortion, movement of the parts or during assembly		N/A
AST I	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited	LCS TOSE	N/A
	Lacquered conductors of windings considered to be bare conductors		N/A
	However, clearances at crossover points are not measured		N/A
	Clearance between surfaces of PTC heating elements may be reduced to 1mm		N/A



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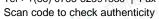
_05	IEC 60335-1	100	A LCo
Clause	Requirement + Test	Result - Remark	Verdic
29.1.5	Appliances having higher working voltages than rate insulation are the largest values determined from:	d voltage, clearances for basic	
	- table 16 based on the rated impulse voltage:		N/A
	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz		N/A
	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz	. 70	N/A
E T	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1 or Clause 4 of IEC 60664-4, the clearances of supplementary insulation are not less than those specified for basic insulation	Till Man	N/A
	If clearances for basic insulation are selected from Table F.7a of IEC 60664-1, the clearances of reinforced insulation dimensioned as specified in Table F.7a are to withstand 160% of the withstand voltage required for basic insulation		N/A
四检测股份	If clearances for basic insulation are selected from Clause 4 of IEC 60664-4, the clearances of reinforced insulation are twice the value required for basic insulation	· 用检测股份	N/A
CS Testing	If the secondary winding of a step-down transformer is earthed, or if there is an earthed screen between the primary and secondary windings, clearances of basic insulation on the secondary side not less than those specified in table 16, but using the next lower step for rated impulse voltage	Les Testing	N/A
	Circuits supplied with a voltage lower than rated voltage, clearances of functional insulation are based on the working voltage used as the rated voltage in table 15		N/A
29.2	Creepage distances not less than those appropriate for the working voltage, taking into account the material group and the pollution degree	(see appended table)	Р
WS I	Pollution degree 2 applies, unless	T Time	Р
The same	- precautions taken to protect the insulation; pollution degree 1	1	N/A
	- insulation subjected to conductive pollution; pollution degree 3		N/A
	A force of 2 N is applied to bare conductors, other than heating elements		N/A

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,01	IEC 60335-1	15	
Clause	Requirement + Test	Result - Remark	Verdic
	A force of 30 N is applied to accessible surfaces		Р
	In a double insulation system, the working voltage for both the basic and supplementary insulation is taken as the working voltage across the complete double insulation system		N/A
29.2.1	Creepage distances of basic insulation not less than specified in table 17	(see appended table)	N/A
E LO	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 17	LCS Testi	N/A
	Except for pollution degree 1, corresponding creepage distance not less than the minimum specified for the clearance in table 16, if the clearance has been checked according to the test of clause 14		N/A
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in table 17, or	(see appended table)	N/A
可检测股份	Table 2 of IEC 60664-4, as applicable	可於測股 物	N/A
29.2.3	Creepage distances of reinforced insulation at least double those specified for basic insulation in table 17, or	(see appended table)	N/A
	Table 2 of IEC 60664-4, as applicable		N/A
29.2.4	Creepage distances of functional insulation not less than specified in table 18	(see appended table)	Р
	However, if the working voltage is periodic and has a frequency exceeding 30 kHz, the creepage distances are also determined from table 2 of IEC 60664-4, these values being used if exceeding the values in table 18		N/A
MSI II	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited	IST 立形检测	N/A
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses		N/A
	Compliance checked:		
	- by measurement, in accordance with 29.3.1, or		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
	- by an electric strength test in accordance with 29.3.2, or		N/A
	- for insulation, other than single layer internal wiring insulation, by an assessment of the thermal quality of the material combined with an electric strength test, in accordance with 29.3.3, and		N/A
4 T	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or	工	N/A
1150 10	- by an assessment of the thermal quality of the material according to 29.3.3 combined with an electric strength test in accordance with 23.5, for each single layer internal wiring insulation touching each other, or	Tes res	N/A
	- as specified in subclause 6.3 of IEC 60664-4 for insulation that is subjected to any periodic voltage having a frequency exceeding 30 kHz		N/A
29.3.1	Supplementary insulation have a thickness of at least 1 mm		N/A
四检测股份	Reinforced insulation have a thickness of at least 2 mm	四校测股份	N/A
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation	LCS Testing -	N/A
	Supplementary insulation consist of at least 2 layers		N/A
	Reinforced insulation consist of at least 3 layers		N/A
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by		N/A
	the electric strength test of 16.3		N/A
	If the temperature rise during the tests of clause 19 does not exceed the value specified in table 3, the test of IEC 60068-2-2 is not carried out		N/A
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19	北京 立语检测 LCS Testi	N/A
30	RESISTANCE TO HEAT AND FIRE		
30.1	External parts of non-metallic material,		Р
	parts supporting live parts, and		N/A
	parts of thermoplastic material providing supplementary or reinforced insulation		N/A

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	IEC 60335-1	150	
Clause	Requirement + Test	Result - Remark	Verdic
	sufficiently resistant to heat		Р
	Ball-pressure test according to IEC 60695-10-2		Р
	External parts tested at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 75 °C, whichever is the higher; temperature (°C)	(see appended table 30.1)	Р
TE I	Parts supporting live parts tested at 40°C plus the maximum temperature rise determined during the test of clause 11, or at 125 °C, whichever is the higher; temperature (°C)	(see appended table 30.1)	N/A
	Parts of thermoplastic material providing supplementary or reinforced insulation tested at 25 °C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C):	(see appended table 30.1)	N/A
30.2	Parts of non-metallic material resistant to ignition and spread of fire		Р
	This requirement does not apply to:		
· 开检测股份	parts having a mass not exceeding 0,5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or	工讯检测股份	Р
,,,,,	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	1	Р
	Compliance checked by the test of 30.2.1, and in addition:		Р
	- for attended appliances, 30.2.2 applies	According to Annex B, test as attended appliances	Р
	- for unattended appliances, 30.2.3 applies		N/A
	For appliances for remote operation, 30.2.3 applies		N/A
二 节	For base material of printed circuit boards, 30.2.4 applies	女讯检测	N/A
30.2.1	Parts of non-metallic material subjected to the glowwire test of IEC 60695-2-11 at 550°C	(see appended table 30.2)	Р
	However, test not carried out if the material is classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 550 °C, or		N/A
	the material is classified at least HB40 according to IEC 60695-11-10		N/A

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.00	IEC 60335-1		1 100
Clause	Requirement + Test	Result - Remark	Verdid
	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF		N/A
30.2.2	Appliances operated while attended, parts of non- metallic material supporting current-carrying connections, and		N/A
	parts of non-metallic material within a distance of 3mm of such connections,	The state of the s	N/A
MSA I	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	(see appended table 30.2)	
	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	The glow-wire test is not carried out on parts of mate wire flammability index according to IEC 60695-2-12		
THE W	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation	一加股份	N/A
·用極端ungLa	- 650 °C, for other connections	Tiff Testing Lab	N/A
Ce ,	The glow-wire test is also not carried out on small parts. These parts are to:		
	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or		N/A
	- comply with the needle-flame test of Annex E, or	(see appended table 30.2/30.2.4)	N/A
	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
	Glow-wire test not applicable to conditions as specified	Handle appliance, low-power circuit	Р
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	USI 立语检测 ICS Testi	N/A
	The tests are not applicable to conditions as specified		N/A
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and		N/A
	parts of non-metallic material, other than small parts, within a distance of 3 mm,		N/A



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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdi
	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	(see appended table 30.2)	N/A
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 850 °C		N/A
30.2.3.2	Parts of non-metallic material supporting connections, and	LCS Testi	N/A
	parts of non-metallic material within a distance of 3mm,		N/A
	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	(see appended table 30.2)	N/A
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
	- 650 °C, for other connections		N/A
ar f	Glow-wire applied to an interposed shielding material, if relevant	-m 85 H3	N/A
·托拉···································	However, the glow-wire test of 750 °C or 650 °C as a parts of material fulfilling both or either of the following		
	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:		N/A
	775 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
	675 °C, for other connections		N/A
	- a glow-wire flammability index according to IEC 60695-2-12 of at least:		N/A
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
4	- 650 °C, for other connections	女讯检测	N/A
150 10	The glow-wire test is also not carried out on small pa	arts. These parts are to:	
	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		N/A
	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- comply with the needle-flame test of Annex E, or		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdi
	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
	The consequential needle-flame test of Annex E app encroach within the vertical cylinder placed above the and on top of the non-metallic parts supporting curre parts of non-metallic material within a distance of 3 m parts are those:	e centre of the connection zone ent-carrying connections, and	
VS I	- parts that withstood the glow-wire test of IEC 60695-2-11 of 750 °C or 650 °C as appropriate, but produce a flame that persist longer than 2 s, or	TITTE TOSTOSTI	N/A
	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- small parts for which the needle-flame test of Annex E was applied, or		N/A
	- small parts for which a material classification of V-0 or V-1 was applied	THE HE	N/A
CS Testing L	However, the consequential needle-flame test is not carried out on non-metallic parts, including small parts, within the cylinder that are:		
	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		N/A
	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or		N/A
	- parts shielded by a flame barrier that meets the needle-flame test of Annex E or that comprises material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
30.2.4	Base material of printed circuit boards subjected to the needle-flame test of Annex E	(see appended table 30.2/30.2.4)	N/A
一一工	Test not applicable to conditions as specified:	V-0	Р
31	RESISTANCE TO RUSTING		
	Relevant ferrous parts adequately protected against rusting		N/A
	Tests specified in part 2 when necessary		N/A
32	RADIATION, TOXICITY AND SIMILAR HAZARDS		

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	IEC 60335-1	19	
Clause	Requirement + Test	Result - Remark	Verdid
	Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use		N/A
	Compliance is checked by the limits or tests specified in part 2, if relevant		N/A
A	ANNEX A (INFORMATIVE) ROUTINE TESTS		
以到过	Description of routine tests to be carried out by the manufacturer	TST TST TST	N/A
В	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE B RECHARGED IN THE APPLIANCE	SATTERIES THAT ARE	
	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance		Р
	Three forms of construction covered:		
一绘测股份	a) Appliance supplied directly from the supply mains or a renewable energy source, the battery charging circuitry and other supply unit circuitry incorporated within the appliance	· 特别股份	N/A
S Testing	b) The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the part of the appliance containing the battery	LCS Testing L	N/A
	c) The part of the appliance incorporating the battery is supplied from the supply mains or a renewable energy source, via a detachable supply unit. The battery charging circuitry is incorporated within the detachable supply unit		N/A
3.1.9	Appliance operated under the following conditions:		
近江江	- the appliance, supplied by its fully charged battery, operated as specified in relevant part 2	立用检测	Р
100	- the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate		Р
	-if possible, the appliance is supplied from the supply mains through its battery charger, the battery being initially discharged to such an extent that the appliance cannot operate. The appliance is operated as specified in relevant part 2		Р

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
	- if the appliance incorporates inductive coupling between two parts that are detachable from each other, the appliance is supplied from the supply mains with the detachable part removed		N/A
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable		N/A
5.B.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances		N/A
7.1	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage (V) and polarity of the terminals	LCS Testi	N/A
	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006		N/A
	Appliances intending to be supplied from a detachable supply unit marked with symbol IEC 60417-6181 and its type reference along with symbol ISO 7000-0790 (2004-01), or		N/A
	use only with <model designation=""> supply unit:</model>		N/A
7.6	Additional symbols	公测股份	N/A
7.12	The instructions give information regarding charging	Titlesting Lab	Р
	Instructions for appliances incorporating batteries intended to be replaced by the user include required information		N/A
	Instructions for appliances containing non user-replaceable batteries state the substance of the following:		
	This appliance contains batteries that are only replaceable by skilled persons		Р
	Instructions for appliances containing non-replaceab substance of the following:	le batteries shall state the	
8	This appliance contains batteries that are non-replaceable		Р
181 re	For appliances intending to be supplied from a detachable supply unit for the purposes of recharging the battery, the type reference of the detachable supply unit is stated along with the following:		N/A
	WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance		N/A
	If the symbol for detachable supply unit is used, its meaning is explained		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
7.15	Markings placed on the part of the appliance connected to the supply mains		N/A
	The type reference of the detachable supply unit is placed in close proximity to the symbol		N/A
8.2	Appliances having batteries that according to the instruction may be replaced by the user need only have basic insulation between live parts and the inner surface of the battery compartment		N/A
NSI II	If the appliance can be operated without batteries, double or reinforced insulation required	北京 ICS Testi	N/A
11.7	The battery is charged for the period stated in the instructions or 24 h		Р
11.8	Temperature rise of the battery surface does not exceed the limit in the battery manufacturer's specification; measured (K); limit (K)		Р
	If no limit specified, the temperature rise does not exceed 20 K; measured (K)		Р
19.1	Appliances subjected to tests of 19.B.101, 19.B.102 and 19.B.103		Р
19.10	Not applicable	公测股份	N/A
19.B.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged	LCS Testing Lan	Р
19.B.102	For appliances having batteries that can be removed without the aid of a tool, short-circuit of the terminals of the battery, the battery being fully charged,		N/A
19.B.103	Appliances having batteries replaceable by the user supplied at rated voltage under normal operation with the battery removed or in any position allowed by the construction		N/A
19.13	The battery does not rupture or ignite		Р
21.B.101	Appliances having pins for insertion into socket- outlets have adequate mechanical strength	- 女讯检测	N/A
181 10	Part of the appliance incorporating the pins subjected 2, of IEC 60068-2-31, the number of falls being:	d to the free fall test, procedure	
	- 100, if the mass of the part does not exceed 250 g (g)		N/A
	- 50, if the mass of the part exceeds 250 g		N/A
	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
22.3	Appliances having pins for insertion into socket- outlets tested as fully assembled as possible		N/A
25.13	An additional lining or bushing not required for interconnection cords in class III appliances or class III constructions operating at safety extra-low voltage not containing live parts		N/A
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies		Р
VS I	For other parts, 30.2.2 applies	US I CS Testi	Р
С	ANNEX C (NORMATIVE) AGEING TEST ON MOTORS		
	Tests, as described, carried out when doubt with regard to the temperature classification of the insulation of a motor winding		N/A
	Test conditions as specified		N/A
D	ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS		
祖检测股份	Applicable to appliances having motors that incorporate thermal motor protectors necessary for compliance with the standard	上语检测股份 Lab	N/A
CS Testing	Test conditions as specified	LCS Testina	N/A
E	ANNEX E (NORMATIVE) NEEDLE-FLAME TEST		
	Needle-flame test carried out in accordance with IEC modifications:	60695-11-5, with the following	
7	Severities		
	The duration of application of the test flame is 30 s ± 1 s		N/A
9	Test procedure		
9.1	The specimen so arranged that the flame can be applied to a vertical or horizontal edge as shown in the examples of Figure 1	VST 立形检测	N/A
9.2	The first paragraph does not apply	1	N/A
	If possible, the flame is applied at least 10 mm from a corner		N/A
9.3	The test is carried out on one specimen		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
	If the specimen does not withstand the test, the test may be repeated on two additional specimens, both withstanding the test		N/A
11	Evaluation of test results		
	The duration of burning not exceeding 30 s		N/A
	However, for printed circuit boards, the duration of burning not exceeding 15 s	. "	N/A
F	ANNEX F (NORMATIVE) CAPACITORS		
	Capacitors likely to be permanently subjected to the radio interference suppression or voltage dividing, co of IEC 60384-14, with the following modifications:		
1.5	Terms and definitions		
1.5.3	Class X capacitors tested according to subclass X2		N/A
1.5.4	This subclause is applicable		N/A
1.6	Marking		
	Items a) and b) are applicable		N/A
3.4	Approval testing	· 河拉测度价	
3.4.3.2	Table 3 is applicable as described	LCS Testing	N/A
4.1	Visual examination and check of dimensions		
	This subclause is applicable		N/A
4.2	Electrical tests		
4.2.1	This subclause is applicable		N/A
4.2.5	This subclause is applicable		N/A
4.2.5.2	Only table 11 is applicable		N/A
	Values for test A apply		N/A
	However, for capacitors in heating appliances the values for test B or C apply	_大 羽检测	N/A
4.12	Damp heat, steady state	LCS Test	
	This subclause is applicable		N/A
	Only insulation resistance and voltage proof are checked		N/A
4.13	Impulse voltage		
	This subclause is applicable		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.14	Endurance		
	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 are applicable		N/A
4.14.7	Only insulation resistance and voltage proof are checked		N/A
	No visible damage		N/A
4.17	Passive flammability test	- 一	
WS I	This subclause is applicable	US CS Testi	N/A
4.18	Active flammability test	The second	
	This subclause is applicable		N/A
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS		
	The following modifications to this standard are app transformers:	licable for safety isolating	
7	Marking and instructions		
7.1	Transformers for specific use marked with:		
讯检测股份	-name, trademark or identification mark of the manufacturer or responsible vendor	在讯检测股份 ing Lab	N/A
CS Test	-model or type reference	LCSTes	N/A
17	Overload protection of transformers and associated	l circuits	
	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1		N/A
22	Construction	•	
	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable		N/A
29	Clearances, creepage distances and solid insulation	n	
29.1, 29.2, 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply		N/A
TET LO	For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances	LCS Testi	N/A
	For windings providing reinforced insulation, the distance specified in item 2c of table 13 of IEC 61558-1 is not assessed		N/A

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
	For safety isolating transformers subjected to periodic voltages with a frequency exceeding 30 kHz, the clearances, creepage distances and solid insulation values specified in IEC 60664-4 are applicable, if greater than the values specified in items 2a, 2c and 3 in table 13 of IEC 61558-1		N/A
Н	ANNEX H (NORMATIVE) SWITCHES		
一つ立	Switches comply with the following clauses of IEC 6	1058-1, as modified below:	
The ro	The tests of IEC 61058-1 carried out under the conditions occurring in the appliance	184 105	N/A
	Before being tested, switches are operated 20 times without load		N/A
8	Marking and documentation		
	Switches are not required to be marked		N/A
	However, a switch that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference		N/A
13	Mechanism	-m RE 43	1/5
·开始则mgLa	The tests may be carried out on a separate sample	Tiff Time Lab	N/A
15	Insulation resistance and dielectric strength	LCSTON	1/-*
15.1	Not applicable		N/A
15.2	Not applicable		N/A
15.3	Applicable for full disconnection and micro-disconnection		N/A
17	Endurance		
	Compliance is checked on three separate appliances or switches		N/A
	For 17.2.4.4, the number of cycles declared according to 7.1.4 is 10 000, unless	加热测	N/A
181 II	otherwise specified in 24.1.3 of the relevant part 2 of IEC 60335	LCS TOST	N/A
	Switches for operation under no load and which can be operated only by a tool, and		N/A
	switches operated by hand that are interlocked so that they cannot be operated under load,		N/A
	are not subjected to the tests		N/A

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	IEC 60335-1	
Clause	Requirement + Test Result - Remark	Verdi
	However, switches without this interlock are subjected to the test of 17.2.4.4 for 100 cycles of operation	N/A
	Subclauses 17.2.2 and 17.2.5.2 not applicable	N/A
	The ambient temperature during the test is that occurring in the appliance during the test of Clause 11 in IEC 60335-1	N/A
MSI II	The temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of IEC 60335-1 (K)	N/A
20	Clearances, creepage distances, solid insulation and coatings of rigid printed b assemblies	oard
	Clause 20 is applicable to clearances across full disconnection and micro-disconnection	N/A
	It is also applicable to creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in Table 24	N/A
I	ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS INADEQUATE FOR THE RATED VOLTAGE OF THE APPLIANCE	
CS Testing La	The following modifications to this standard are applicable for motors having bainsulation that is inadequate for the rated voltage of the appliance:	asic
8	Protection against access to live parts	
8.1	Metal parts of the motor are considered to be bare live parts	N/A
11	Heating	
11.3	The temperature rise of the body of the motor is determined instead of the temperature rise of the windings	N/A
11.8	The temperature rise of the body of the motor, where in contact with insulating material, not exceeding values in table 3 for the relevant insulating material	N/A
16	Leakage current and electric strength	
16.3	Insulation between live parts of the motor and its other metal parts is not subjected to the test	N/A
19	Abnormal operation	
19.1	The tests of 19.7 to 19.9 are not carried out	N/A
19.I.101	Appliance operated at rated voltage with each of the following fault conditions:	

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
	- short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit		N/A
	- short circuit of each diode of the rectifier		N/A
	- open circuit of the supply to the motor		N/A
	- open circuit of any parallel resistor, the motor being in operation		N/A
工工工	Only one fault simulated at a time, the tests carried out consecutively	立讯检测	N/A
22	Construction	PAT TC2	
22.I.101	For class I appliances incorporating a motor supplied by a rectifier circuit, the d.c. circuit being insulated from accessible parts of the appliance by double or reinforced insulation		N/A
	Compliance checked by the tests specified for double and reinforced insulation		N/A
J ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS			
四绘测度份	Testing of protective coatings of printed circuit board IEC 60664-3 with the following modifications:	s carried out in accordance with	
5.7	Conditioning of the test specimens	T. C.S Testing La	
	When production samples are used, three samples of the printed circuit board are tested		N/A
5.7.1	Cold		
	The test is carried out at -25 °C		N/A
5.7.3	Rapid change of temperature		
	Severity 1 is specified		N/A
5.9	Additional tests		
	This subclause is not applicable		N/A
K	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES		
1	The information on overvoltage categories is extracted from IEC 60664-1		Р
	Overvoltage category is a numeral defining a transient overvoltage condition		Р
	Equipment of overvoltage category IV is for use at the origin of the installation		N/A

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,0-	IEC 60335-1	15	2 100
Clause	Requirement + Test	Result - Remark	Verdi
	Equipment of overvoltage category III is equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements		N/A
	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation		Р
NSI II	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies	工工用位测 LCS Testi	N/A
	Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriate low level		N/A
L	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEAR DISTANCES	RANCES AND CREEPAGE	
	Information for the determination of clearances and creepage distances		Р
М	ANNEX M (NORMATIVE) POLLUTION DEGREE		
CS Testills	The information on pollution degrees is extracted from IEC 60664-1	LCS Testins	Р
	Pollution		
	The microenvironment determines the effect of pollution on the insulation, taking into account the macroenvironment		Р
	Means may be provided to reduce pollution at the insulation by effective enclosures or similar		Р
	Minimum clearances specified where pollution may be present in the microenvironment		Р
	Degrees of pollution in the microenvironment		
TEA IN	For evaluating creepage distances, the following degmicroenvironment are established:	grees of pollution in the	
	- pollution degree 1: no pollution or only dry, non- conductive pollution occurs. The pollution has no influence		N/A
	- pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected		Р



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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected		N/A
	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow		N/A
N	ANNEX N (NORMATIVE) PROOF TRACKING TEST		
184 r	The proof tracking test is carried out in accordance vi following modifications:	with IEC 60112 with the	Р
7	Test apparatus		
7.3	Test solutions		
	Test solution A is used		Р
10	Determination of proof tracking index (PTI)		
10.1	Procedure		
	The proof voltage is 100V, 175V, 400V or 600V:	175V	Р
THE H	The test is carried out on five specimens	一言形分	Р
CS Testing La	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100	LCS Testing Lan	Р
10.2	Report		
	The report states if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V		N/A
0	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF	CLAUSE 30	
	Description of tests for determination of resistance to heat and fire		Р
P	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STA	ANDARD TO APPLIANCES	
	Modifications applicable for class 0 and 01 appliance exceeding 150V, intended to be used in countries have marked with symbol IEC 60417-6332		N/A
	Modifications may also be applied to class 1 appliant exceeding 150V, intended to be used in countries had are marked with symbol IEC 60417-6332, if liable mains that excludes the protective earthing conductors.	aving a tropical climate and that to be connected to a supply	N/A



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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.7	The ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 °C		N/A
7.1	The appliance marked with symbol IEC 60417-6332		N/A
7.12	The instructions state that the appliance is to be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA		N/A
TET I	The instructions state that the appliance is considered to be suitable for use in countries having a tropical climate, but may also be used in other countries	LCS Testi	N/A
	If symbol IEC 60417-6332 is used, its meaning is explained		N/A
11.8	The values of Table 3 are reduced by 15 K		N/A
13.2	The leakage current for class I appliances not exceeding 0,5 mA		N/A
15.3	The value of t is 37 °C		N/A
16.2	The leakage current for class I appliances not exceeding 0,5 mA (mA):	在現检测股份 a Lab	N/A
19.13	The leakage current test of 16.2 is applied in addition to the electric strength test of 16.3	LCS Tostin	N/A
Q	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION C	F ELECTRONIC CIRCUITS	
	Description of tests for appliances incorporating elec-	tronic circuits	Р
R	ANNEX R (NORMATIVE) SOFTWARE EVALUATION		
	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 validated in accordance with the requirements of this annex		N/A
R.1	Programmable electronic circuits using software	工讲证	
	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2 constructed so that the software does not impair compliance with the requirements of this standard	Too.	N/A
R.2	Requirements for the architecture		

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REPORT NO.: LCSA040323267S001 IEC 60335-1 Clause Requirement + Test Result - Remark Verdict Programmable electronic circuits requiring software N/A incorporating measures to control the fault/error conditions specified in table R.1 or R.2 use measures to control and avoid software-related faults/errors in safety-related data and safetyrelated segments of the software R.2.1.1 Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.2 have one of the following structures: - single channel with periodic self-test and N/A monitoring - dual channel (homogenous) with comparison N/A dual channel (diverse) with comparison N/A Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 have one of the following structures: N/A single channel with functional test - single channel with periodic self-test dual channel without comparison R.2.2 Measures to control faults/errors R.2.2.1 When redundant memory with comparison is provided on two areas of the same component, the data in one area is stored in a different format from that in the other area R.2.2.2 Programmable electronic circuits with functions N/A requiring software incorporating measures to control the fault/error conditions specified in table R.2 and that use dual channel structures with

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comparison

safety-related data paths



R.2.2.3

comparison, have additional fault/error detection means for any fault/errors not detected by the

For programmable electronic circuits with functions

requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, means are provided for the recognition and control of errors in transmissions to external

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
R.2.2.4	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, the programmable electronic circuits incorporate measures to address the fault/errors in safety-related segments and data indicated in table R.1 and R.2 as appropriate		N/A
R.2.2.5	For programmable electronic circuits with functions requiring software incorporating measures to control the fault/error conditions specified in table R.1 or R.2, detection of a fault/error occur before compliance with clause 19 is impaired	TIR 立语位测 LCS Tost	N/A
R.2.2.6	The software is referenced to relevant parts of the operating sequence and the associated hardware functions		N/A
R.2.2.7	Labels used for memory locations are unique		N/A
R.2.2.8	The software is protected from user alteration of safety-related segments and data		N/A
R.2.2.9	Software and safety-related hardware under its control is initialized and terminates before compliance with clause 19 is impaired	-m RE 份	N/A
R.3	Measures to avoid errors	II Testing Lab	
R.3.1	General	100	
	For programmable electronic circuits with functions representation of the fault/error conditions specifically following measures to avoid systematic fault in the second systematic fault faul	ed in table R.1 or R.2, the	N/A
	Software that incorporates measures used to control the fault/error conditions specified in table R.2 is inherently acceptable for software required to control the fault/error conditions specified in table R.1		N/A
R.3.2	Specification	•	
R.3.2.1	Software safety requirements:	Software Id:	N/A
TEL L	The specification of the software safety requirements includes the descriptions listed	LCS Tost	N/A
R.3.2.2	Software architecture		

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
R.3.2.2.1	The specification of the software architecture includes the aspects listed	Document ref. No:	N/A
	- techniques and measures to control software faults/errors (refer to R.2.2);		
	- interactions between hardware and software;		
	- partitioning into modules and their allocation to the specified safety functions;	and the second	
	- hierarchy and call structure of the modules (control flow);	北京 立语检测	
	- interrupt handling;		
	- data flow and restrictions on data access;		
	- architecture and storage of data;		
	- time-based dependencies of sequences and data		
R.3.2.2.2	The architecture specification is validated against the specification of the software safety requirements by static analysis		N/A
R.3.2.3	Module design and coding	,	
R.3.2.3.1	Based on the architecture design, software is suitably refined into modules	大讯检测股份	N/A
CS Tes	Software module design and coding is implemented in a way that is traceable to the software architecture and requirements	rcs ten	N/A
R.3.2.3.2	Software code is structured		N/A
R.3.2.3.3	Coded software is validated against the module specification by static analysis		N/A
	The module specification is validated against the architecture specification by static analysis		N/A
R.3.3.3	Software validation		
工工	The software is validated with reference to the requirements of the software safety requirements specification	立讯检测	N/A
A L	Compliance is checked by simulation of:	1 Co. Ico.	
	- input signals present during normal operation		N/A
	- anticipated occurrences		N/A
	- undesired conditions requiring system action		N/A

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Component	Fault/error	Acceptable measures b, c	Definitions	Document	Document	Ver-
Component	T adiversor	Acceptable measures	Deminions	reference for applied measure	reference for applied test	dict
1 CPU	- 1 RG (F)		份	_		N/A
1.1 _ 1.1	大型 July Lab	女活检测器	Lab		古语检 ^{测版}	rap
Registers	Stuck at	Functional test, or	H.2.16.5	1/5	工iff ing	
		periodic self-test using either:	H.2.16.6			
		- static memory test, or	H.2.19.6			
		 word protection with single bit redundancy 	H.2.19.8.2			
1.2 VOID						_
1.3	Stuck at	Functional test, or	H.2.16.5	_		N/A
Programme counter		Periodic self-test, or	H.2.16.6			
Counter		Independent time-slot monitoring, or	H.2.18.10.4	服份		1/2
		Logical monitoring of the programme sequence	H.2.18.10.2	ling Lab	1/8/	LCS T
2	No	Functional test, or	H.2.16.5	_	_	N/A
Interrupt handling and execution	interrupt or too frequent interrupt	time-slot monitoring	H.2.18.10.4			
3	Wrong	Frequency monitoring, or	H.2.18.10.1	_		N/A
Clock	frequency (for quartz synchroniz ed clock:	time slot monitoring	H.2.18.10.4			
	harmonics/ sub- harmonics only)	TH拉测版 LOS Testing	份 Lab	TE	立计检测股 LCS Testing	Lab
4. Memory				_	_	N/A
4.1	All single	Periodic modified checksum, or	H.2.19.3.1			
Invariable memory	bit faults	multiple checksum, or	H.2.19.3.2			
memory		word protection with single bit redundancy	H.2.19.8.2			

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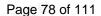
100		IEC 60335-1	100		Too I to
Clause	Requiremen	t + Test	Result -	- Remark	Verdict
4.2 Variable memory	DC fault	Periodic static memory test, or word protection with single bit redundancy	H.2.19.6 H.2.19.8.2		N/A
4.3 Addressing (relevant to variable and invariable memory)	Stuck at	Word protection with single bit redundancy including the address	H.2.19.8.2	- LCST	N/A
5 Internal data path	Stuck at	Word protection with single bit redundancy	H.2.19.8.2		N/A
5.1 VOID					
5.2 Addressing	Wrong address	Word protection with single bit redundancy including the address	H.2.19.8.2		N/A
6 External communicat ion	Hamming distance 3	Word protection with multi-bit redundancy, or CRC – single work, or Transfer redundancy, or Protocol test	H.2.19.8.1 H.2.19.4.1 H.2.18.2.2 H.2.18.14	服份 ing Lab	N/A
6.1 VOID					
6.2 VOID					
6.3 Timing	Wrong point in time	Time-slot monitoring, or scheduled transmission Time-slot and logical monitoring, or	H.2.18.10.4 H.2.18.18 H.2.18.10.3		N/A
	检测股份 Testing Lab	comparison of redundant communication channels by either: - reciprocal comparison	H.2.18.15	Till Ice T	公测度分 cesting Lab
		- independent hardware comparator	H.2.18.3		
	Wrong	Logical monitoring, or	H.2.18.10.2		
	sequence	time-slot monitoring, or Scheduled transmission	H.2.18.10.4 H.2.18.18		
		Scrieduled transmission	⊓.∠. Iŏ. Iŏ		

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IEC 60335-1 Requirement + Test Result - Remark Clause Verdict Fault Plausibility check H.2.18.13 N/A Input/output conditions periphery specified in 19.11.2 **7.1 VOID** 7.2 N/A Analog I/O 7.2.1 Fault Plausibility check H.2.18.13 A/D and conditions D/Aspecified in converter 19.11.2 7.2.2 Wrong Plausibility check H.2.18.13 N/A Analog addressing multiplexer 8 VOID 9 Any output Periodic self-test H.2.16.6 N/A Custom outside the chips d e.g. static and ASIC, GAL, dynamic gate array functional

NOTE A Stuck-at fault model denotes a fault model representing an open circuit or a non-varying signal level. A DC fault model denotes a stuck-at fault model incorporating short circuit between signal lines.

specificatio

e) Table R.1 is applied according to the requirements of R.1 to R.2.2.9 inclusive.

S	S ANNEX S (NORMATIVE) BATTERY OPERATED APPLIANCES POWERED BY BATTERIES THAT ARE NON-RECHARGEABLE OR NOT RECHARGED IN THE APPLIANCE		
E	The following modifications to this standard are applicable for battery-operated appliances where the batteries are either non-rechargeable (primary batteries), or	LEST LCS TOST	N/A
	rechargeable batteries (secondary batteries) that are not recharged in the appliance		N/A
5.8.1	If the supply terminals for the connection of the battery have no indication of polarity, the more unfavourable polarity is applied		N/A

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^{a)} For fault/error assessment, some components are divided into their sub-functions.

b) For each sub-function in the table, the Table R.2 measure will cover the software fault/error.

c) Where more than one measure is given for a sub-function, these are alternatives.

d) To be divided as necessary by the manufacturer into sub-functions.



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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
5.S.101	Appliances intended for use with a battery box are tested with the battery box supplied with the appliance or with the battery box recommended in the instructions		N/A
5.S.102	Appliances are tested as motor-operated appliances.		N/A
7.1	Appliances marked with the battery voltage (V) and the polarity of the terminals, unless		N/A
一寸	the polarity is irrelevant	TiR 检测	N/A
1/2/1	Appliances also marked with:	LCS TO	
	name, trade mark or identification mark of the manufacturer or responsible vendor:		N/A
	- model or type reference:		N/A
	IP number according to degree of protection against ingress of water, other than IPX0:		N/A
	- type reference of battery or batteries		N/A
-11 RG 45	If relevant, the positive terminal is indicated by the symbol IEC 60417-5005 and the negative terminal by the symbol IEC 60417-5006		N/A
Ling Ling Ling Ling Ling Ling Ling Ling	If appliances use more than one battery, they are marked to indicate correct polarity connection of the batteries	Tiffic Ing Lab LCS Testing Lab	N/A
7.6	Additional symbols		N/A
7.12	The instructions contain the following, as applicable:		
	- the types of batteries that may be used		N/A
	- how to remove and insert the batteries		N/A
	 non-rechargeable batteries are not to be recharged 		N/A
	rechargeable batteries are to be removed from the appliance before being charged	. 40	N/A
NSI T	different types of batteries or new and used batteries are not to be mixed	TET LCS TOST	N/A
	batteries are to be inserted with the correct polarity		N/A
	exhausted batteries are to be removed from the appliance and safely disposed of		N/A
	 if the appliance is to be stored unused for a long period, the batteries are removed 		N/A

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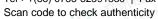


LCS 1	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
	- the supply terminals are not to be short-circuited		N/A
11.5	Appliances are supplied with the most unfavourable	supply voltage between	
	 0,55 and 1,0 times the battery voltage, if the appliance can be used with non-rechargeable batteries 		N/A
J.	 0,75 and 1,0 times battery voltage, if the appliance is designed for use with rechargeable batteries only 	一 语位 ^则	N/A
ST	The values specified in Table S.101 for the internal resistance per cell of the battery is taken into account	LCS Tes	N/A
19.1	The tests are carried out with the battery fully charged unless otherwise specified		N/A
19.13	The battery does not rupture or ignite		N/A
19.S.101	Appliances are supplied with the voltage specified in 11.5. The supply terminals having an indication of polarity are connected to the opposite polarity, unless		N/A
· 讯检测股份	such a connection is unlikely to occur due to the construction of the appliance	·用检测股份	N/A
19.S.102	For appliances with provision for multiple batteries, one or more of the batteries are reversed and the appliance is operated, if reversal of batteries is allowed by the construction	LCS Testino	N/A
25.5	The flexible leads or flexible cord used to connect an external battery or battery box in is connected to the appliance by a type X attachment		N/A
25.13	This requirement is not applicable to the flexible leads or flexible cord connecting external batteries or a battery box with an appliance		N/A
25.S.101	Appliances have suitable means for connection of the battery. If the type of battery is marked on the appliance, the means of connection is suitable for this type of battery	NST THINK	N/A
26.5	Terminal devices in an appliance for the connection of the flexible leads or flexible cord connecting an external battery or battery box are so located or shielded that there is no risk of accidental connection between supply terminals		N/A

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rca .	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
30.2.3.2	There is no battery in the area of the vertical cylinder used for the consequential needle flame test, unless		N/A
	the battery is shielded by a barrier that meets the needle flame test of Annex E, or		N/A
	that comprises material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
Т	ANNEX T (NORMATIVE) UV-C RADIATION EFFECT ON NON-METALLIC M	ATERIALS	
The .	Requirements for non-metallic materials subject to direct or reflected UV-C radiation exposure and whose mechanical and electrical properties are relied upon for compliance with the		N/A
	Does not apply to glass, ceramic and similar materials		N/A
	Tested as specified in ISO 4892-1 and ISO 4892-2, v	with the following modifications:	
	Modifications to ISO 4892-1:		
5.1.6	The UV-C emitter is a low pressure mercury lamp with a quartz envelope having a continuous spectral irradiance of 10 W/m2 at 254 nm	一 用检测股份	N/A
LCS Testins	Subclause 5.1.6.1 and Table 1 are not applicable	LCS Testino	N/A
5.2.4	The black-panel temperature shall be 63 °C +/- 3 °C		N/A
5.3.1	Humidification of the chamber air is specified in part 2 when necessary		N/A
9	This clause is not applicable		N/A
	Modifications to ISO 4892-2:		
7.1	At least three test specimens are tested		N/A
	Ten samples of internal wiring is tested		N/A
7.2	The specimens are attached to the specimen holders such that they are not subject to any stress	- 14h	N/A
7.3	Apparatus prepared as specified	UST CS Tes	N/A
100	The test specimens and, if used, the irradiance- measuring instrument are exposed for 1 000 h		N/A
7.4	If used, a radiometer is mounted and calibrated such that it measures the irradiance at the exposed surface of the test specimen		N/A

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This clause is not applicable

rca ,	IEC 60335-1	rcs is	LCS ICS
Clause	Requirement + Test	Result - Remark	Verdict
7.5	Material properties and test methods for parts providing mechanical support or impact resistance as specified in Table T.1		N/A
	Material properties and test method for electrical insulation of internal wiring as specified in Table T.2		N/A

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N/A

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10.1	TABLE: Power input deviation						N/A
Input deviation of/at:		P rated (W)	P measured (W)	ΔΡ	Required Δ P	R	emark
Supplementary information:							

10.2	TABLE: Curre	TABLE: Current deviation					
Current	deviation of/at:	I rated (A)	I measured (A)	ΔΙ	Required Δ I	Remark	
	5VDC	2	1.2	-40.0%	+20%		
Supplem	entary information:			101070	1.2070		

11.8-1	TABLE: Heating test (charging mode)		Р
	Test voltage (V):	1.06x5V	_
	Ambient (°C)	23.1°C	_

Thermocouple locations:	Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)
Internal wire	7.7 Thresting La	T105-25=80
PCB	9.4	T130-25=105
Battery	11.7	20
Enclosure inside near battery	10.4	Ref.
Enclosure outside near battery	4.9	30
Enclosure inside near PCB	7.7	Ref.
Enclosure outside near PCB	4.0	30
Handle	5.3	35
Test corner	1.0	65
Supplementary information:	古话位河 Reb	古语流测版 Lab

11.8-2	TABLE: Heating test (working mode)				Р
	Test voltage (V)	:	Powered by bat	fully charged tery	_
	Ambient (°C)	:	23.3	3°C	_
Thermocouple locations:		<u>-</u>		Max. tempera	

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Clause	Requirement + Test	Result - Re	emark Verdict
Internal w	ire	10.2	T105-25=80
PCB		13.6	T130-25=105
Battery		13.0	20
Enclosure inside near battery		12.2	Ref.
Enclosure	outside near battery	6.2	30
Enclosure	inside near PCB	10.0	Ref.
Enclosure	outside near PCB	6.4	30
Handle		5.9	35
Test corner		1.4	65
Suppleme	entary information:	•	•

11.8	TABLE: Heating test,	TABLE: Heating test, resistance method					
	Test voltage (V)	Test voltage (V):					_
	Ambient, t1 (°C)	Ambient, t1 (°C)					_
	Ambient, t2 (°C)	Ambient, t2 (°C):					_
Temperature rise of winding: R1 (Ω)		R2 (Ω)	Δ T (K)	Max. Δ T (K)		ulation class	
Les	-154 10			PA LES		1	Lica
Supplemer	ntary information:		•	•	•		

C la	entary information:		11.11.11	ing Lab
Leakage current between:		I (mA)	Max. allowed I (n	
	Motor-operated and combined appliances: 1.06 x rated voltage (V):			_
	Heating appliances: 1.15 x rated input (W):		•	_
13.2	TABLE: Leakage current			N/A

13.3 TABLE: Dielectric strength				N/A
Test voltage applied between:		Test potential applied (V)	Breakdown / f (Yes/N	

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LC2 1	4	LCS	IEC 60335-1	ST LCS		1/2 rcs	
Clause	Requirement + T	Requirement + Test			Result - Remark		
Suppleme	entary information:						
14	TABLE: Transie	ent overvoltages	S			N/A	
Clearanc	e between:	CI (mm)	Required CI (mm)	Rated impulse voltage (V)	Impulse test voltage (V)	Flashov (Yes/No	
	古讯检测报 ¹⁷		话检测版	8 <u>0</u>	H	企测版 IN	
Suppleme	entary information:	X.	LCS Testino		1 SA LCS	Testino	
16.2	TABLE: Leakag	e current				N/A	
	Single phase ap	-					
	Three phase ap divided by √3 (\						
Leakage	current between:			I (mA)	I (mA) Max. al		
	. 48	. 115			uS.	1	
Suppleme	entary information:	古语检测度 ¹⁷³	b	一语检测的	rap [//3	1/5	
LCS Testin	N.	LCS Testins		ST LCS Testing		NET TO	
16.3	TABLE: Dielect	ric strength				N/	
Test voltage applied between:			Tes	st potential app (V)		vn / flasho es/No)	

17	TABLE: Overload protection	ABLE: Overload protection				
Thermocou	ple locations:	Max. temperature rise measured, Δ T (K)	Max. temperat			
- 151	CS Testins	CS Lesting	LCS Test	100		
Supplement	ary information:					

17	TABLE: Overload protection, resistance method	TABLE: Overload protection, resistance method			
	Test voltage (V)		_		
	Ambient, t1 (°C):		_		

Supplementary information:



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	Ambient, t2 (°C)			_					
Temperature of winding:		R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Max. T (°C)			
Supplement	Supplementary information:								

19	_ a.S. :1115 D2-							
Operational characteristics			YES/NO	Operational conditions				
Are there electronic circuits to control the appliance operation?		Yes						
Are there "	off" or "stand-b	y" position?	No					
appliance	he unintended operation of the poliance results in dangerous nalfunction?		No					
Sub- clause	Operating conditions description	Test results description	PEC description	EMP 19.11.4	Software type required	19.11.3 PEC	Final result	
19.2	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
19.3	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
19.4	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
19.5	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
19.6	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
19.7	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
19.8	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
19.9	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
19.10	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
19.11.2	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
19.11.4.8	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
19.14	N.A	N.A	N.A	N.A	N.A	N.A	N.A	
19.10X	N.A	N.A	N.A	N.A	N.A	N.A	N.A	

19.7	TABLE: Abnormal operation, locked rotor/moving parts	N/A
	Test voltage (V)	_

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	Ambient, t1 (°C)			_				
	Ambient, t2 (°C):					_		
Temperature of winding:		R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Max. T (°C)		
Supplement	Supplementary information:							

19.9	TABLE: Abnormal	TABLE: Abnormal operation, running overload				N/A	
	Test voltage (V)		:			_	
	Ambient, t1 (°C)						
	Ambient, t2 (°C)		:		_		
Temperature of winding:		R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Max. T (°	
Suppleme	entary information:						

19.13 TABLE: Abnormal operation, temperature rises				
Thermocouple locations:	rmocouple locations: Max. temperature rise measured, Δ T (K) Max. temperat			
See cl 19.13				
Supplementary information:				

21.1	TABLE: Impact resistance							
Impacts po	er surface	urface Surface tested Impact energy (Nm) Comments			nts			
Three times		Enclosure	0.5	No dama	ge			
Supplementa	Supplementary information:							

24.1 TABLE: Critical components information								
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾			
PCB	HUIZHOU BOUNCING TECHNOLOGY ELECTRONIC CO LTD	M, M2, D	V-0, 130°C	UL 796	UL			

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(Alternative)	Interchangeable	Interchangeab	V-0, 130°C	UL 796	UL
		le			
Plastic	LG Chem Huizhou	AF312C	V-0, 70°C, Min.	UL 94	UL
enclosure	Petrochemical Co		thickness: 2.5mm	UL 746	
l	Ltd				
Internal wire	Shenzhen	1007, 1015	Min. 80°C,	UL 758	UL
l	Yixiantong Cable		Min.30 AWG		
	Co Ltd		一种股份		10000000000000000000000000000000000000
(Alternative)	Interchangeable	Interchangeab	Min. 80°C,	UL 758	UL Many Lab
LCS TO	g.··	le VST LCS	Min.30 AWG	Med ro	STesti
Rechargeable	Jiangxi Cheng jiang	INR 18650-	3.7VDC,	IEC/EN 62133:	UL CB report
Li-polymer	new energy Co.,	2000mAh	2000mAh,	2017	number: S-
Battery Cell	Ltd		7.40Wh		21086166A0

Supplementary information:

1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.

28.1	TABLE: Threaded part torque test								
Threaded part Diameter of thread Column number Applied torque identification: (mm) (I, II, or III)									
THE MINE	d)	女话检测的 Lab	TiH检测版 Lab						
Supplement	ary information:	ST LCS Tes	LCS Tes	LCS Tes					

29.1	TABLE: Clearances		Р
	Overvoltage category:	П	_

	•	•				
			Type of ir	sulation:		
Rated impulse voltage (V):	Min. cl (mm)	Basic (mm)	Supplementary (mm)	Reinforced (mm)	Functional (mm)	Verdict / Remark
330	0,2* / 0,5 / 0,8**			à		N/A
500	0,2* / <u>0,5</u> / 0,8**		古流位测路	ab	>0.5	古语物 P Lab
800	0,2* / 0,5 / 0,8**		ST LCS TOS		//8/1	N/A
1 500	0,5 / 0,8** / 1,0***					N/A
2 500	1,5 / 2,0***					N/A
4 000	3,0 / 3,5***					N/A
6 000	5,5 / 6,0***					N/A
8 000	8,0 / 8,5***					N/A

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10 000 11,0 / 11,5*** N/A --

Supplementary information:

- *) For tracks on printed circuit boards if pollution degree 1 and 2
 **) For pollution degree 3
 ***) If the construction is affected by wear, distortion, movement of the parts or during assembly

29.2 TABLE	: Creep	age dis	tances,	basic, su	ppleme	ntary a	nd reinfo	ced ir	nsulati	ion	N/A
Working voltage (V):				epage di (mm) ollution de							
	1	1 2				3			Type o		
		Ма	Material group			terial g	roup				
		ı	II	IIIa/IIIb	I	II	IIIa/IIIb*	B**	S**	R**	Verdict
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9			—	N/A
≤50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	_		—	N/A
≤50	0,36	1,2	1,7	3,4	3,0	3,4	3,8	_			N/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	d		_	N/A
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4	_		—	N/A
125	0,56	1,5	2,1	3,0	3,8	4,2	4,8	_			N/A
250	0,56	1,25	1,8	2,5	3,2	3,6	4,0			—	N/A
250	0,56	1,25	1,8	2,5	3,2	3,6	4,0	_		—	N/A
250	1,12	2,5	3,6	5,0	6,4	7,2	8,0	_	_		N/A
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3			_	N/A
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3	_		_	N/A
400	2,0	4,0	5,6	8,0	10,0	11,2	12,6		_	-11	N/A
500	1,3	2,5	3,6	5,0	6,3	^{a/2} 7,1	8,0		_		N/A
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0	_	A ro	_	N/A
500	2,6	5,0	7,2	10,0	12,6	14,2	16,0	_	_		N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0			_	N/A
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	_		_	N/A
>630 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0	_			N/A

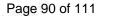
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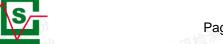
700		_	PAT FO		IEC 6	0335-1	LA LC				-113	Les.
Clause	Require	ement +	Test				Res	sult - Rem	ark			Verdic
>800 an	d ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5			_	N/A
>800 an	d ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5			_	N/A
>800 an	d ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0				N/A
>1000 ar	nd ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0				N/A
>1000 ar	nd ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0				N/A
>1000 ar	nd ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0				N/A
>1250 ar	nd ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	W			N/A
>1250 ar	nd ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0		2/	_	N/A
>1250 ar	nd ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0				N/A
>1600 ar	nd ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0			_	N/A
>1600 ar	nd ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0			_	N/A
>1600 ar	nd ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0				N/A
>2000 ar	nd ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0			_	N/A
>2000 ar	nd ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0			_	N/A
>2000 ar	nd ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0				N/A
>2500 ar	nd ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	(b		_	N/A
>2500 ar	nd ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0			_	N/A
>2500 ar	nd ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0				N/A
>3200 ar	nd ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0			_	N/A
>3200 ar	nd ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0				N/A
>3200 ar	nd ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0				N/A
>4000 ar	nd ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0				N/A
>4000 ar	nd ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0			_	N/A
>4000 ar	nd ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0			-====	N/A
>5000 ar	nd ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0		_	_	N/A
>5000 ar	nd ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	_	\$4 LC	_	N/A
>5000 ar	nd ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	_	_		N/A
>6300 ar	nd ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0			_	N/A
>6300 ar	nd ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	_		_	N/A
>6300 ar	nd ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	_			N/A

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Ce 10			ST FC	5 10	IEC 6	0335-1		rcs .		1/8	LCS
Clause	Require	ment +	Test				F	Result - Ren	nark		Verdict
									,		
>8000 and s	≤10000	32,0	40,0	56,0	80,0	100,0	110,	0 125,0		 _	N/A
>8000 and s	≤10000	32,0	40,0	56,0	80,0	100,0	110,	0 125,0		_	N/A
>8000 and s	≤10000	64,0	80,0	112,0	160,0	200,0	220,	0 250,0			N/A
>10000 and	≤12500	40,0	50,0	71,0	100,0	125,0	140,	0 160,0		 	N/A
>10000 and	≤12500	40,0	50,0	71,0	100,0	125,0	140,	0 160,0			N/A
>10000 and	≤12500	80,0	100,0	142,0	200,0	250,0	280,	0 320,0			N/A

Supplementary information:

29.2	TABLE:	Creep	age dis	tances,	function	al insula	ation		Р
Working vo (V):	oltage			Cre Po					
		1		2			3		هر.
			Ма	terial g	roup	Ма	terial g	roup	1/2
			- 1	II	IIIa/IIIb	- 1	II	IIIa/IIIb*	Verdict / Remark
^{CS} √S10		0,08	0,4	0,4	0,4	1,0	1,0	1,0	P *
50		0,16	0,56	0,8	1,1	1,4	1,6	1,8	N/A
125		0,25	0,71	1,0	1,4	1,8	2,0	2,2	N/A
250		0,42	1,0	1,4	2,0	2,5	2,8	3,2	N/A
400		0,75	1,6	2,2	3,2	4,0	4,5	5,0	N/A
500		1,0	2,0	2,8	4,0	5,0	5,6	6,3	N/A
>630 and ≤	≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	N/A
>800 and ≤	1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	N/A
>1000 and ≤	≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	N/A
>1250 and <	≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	N/A
>1600 and <	≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	N/A
>2000 and <	≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	N/A
>2500 and ≤	≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	N/A
>3200 and ≤	≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	N/A
>4000 and <	≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	N/A

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 $^{^{*)}}$ Material group IIIb is allowed if the working voltage does not exceed 50 V $^{**)}$ B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation



IEC 60335-1

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	120 00000 1		
Clause	Requirement + Test	Result - Remark	Verdict

>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	N/A
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	N/A
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	N/A
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	N/A

Supplementary information:

^{*)} Material group IIIb is allowed if the working voltage does not exceed 50 V

30.1	TABLE: Ball Pro	TABLE: Ball Pressure Test of Thermoplastics									
Allowed im	pression diamet	er (mm):	2.0mm	_							
Object/ Par	t No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diam	eter (mm)						
Plastic parts	3	See table 24.1	75	1.1							
Supplement	Supplementary information:										

30.2	TABLE: Resistance to heat and fire - Glow wire tests								
Object/	Manufacturer								
Part No./ Material	/ trademark	550	6	50	7	50	050	Verdict	
		550	te	ti	te	ti	850		
Plastic parts	See table	×						Pass	
	24.1	No flame							
Object/ Part No./	Manufacturer /	Glow	ion temp. T), °C	Verdict					
Material	trademark	550	650	750	850	675	775		
The test spec	imen passed the	glow wire	test (GW	T) with no	ignition [(t	e – ti) ≤ 2s]	(Yes/No):	Yes	
If no, then surrounding parts passed the needle-flame test of annex E (Yes/No)									
	cimen passed the -wire (Yes/No)?							Yes	
Ignition of the	specified layer p	laced und	lerneath t	he test sp	ecimen (Ye	s/No)	:	No	

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CSTOSTILL	LCS To STILL	IEC 60335-1	LCS Tostill	LCS Tos
Clause	Requirement + Test		Result - Remark	Verdict

Supplementary information:

- 550 °C GWT not relevant (or applicable) to parts of material classified at least HB40 or if relevant HBF - The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not relevant (or applicable) for attended appliances

30.2/30.2.4 TABLE: Needle- flame test (NFT)				N/A	
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict

Supplementary information:

- NFT not relevant (or applicable) for Parts of material classified as V-0 or V-1
- NFT not relevant (or applicable) for Base material of PCBs classified as V-0 or if relevant VTM-0







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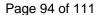
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Attachment No.1: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Clause Result - Remark Verdict Requirement - Test

ATTACHMENT TO TEST REPORT IEC 60335-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

(Household and similar electrical appliances - Safety -

Part 1: GENERAL REQUIREMENTS)

EN 60335-1: 2012+A11: 2014+A13: 2017+A1: 2019+A2: Differences according to

2019+A14:2019+A15:2021; EN 62233: 2008;

REPORT NO.: LCSA040323267S001

Attachment Form No..... IEC60335_1X Attachment Originator: Nemko AS

Dated 2016-10 Master Attachment:

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CENELEC COMMON MODIFICATIONS (EN)		
Delete "class 0" and "class 01"	Class III	Р
Single-phase appliances to be connected to the supply mains: 230 V covered		N/A
Multi-phase appliances to be connected to the supply mains: 400 V covered	-mi 86 (f)	N/A
The instructions include the substance of the following:		Р
- this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved	Tree.	P
- children shall not play with the appliance		Р
- cleaning and user maintenance shall not be made by children without supervision		Р
Also test probe 18 of EN 61032 is applied	-17	N/A
The appliance being in every possible position during the test except that	工语 ^{技术} IST LCS Test	N/A
appliances normally used on the floor and having a mass exceeding 40 kg are not tilted		N/A
The force on the probe in the straight position is increased to 10 N when probe 18 is used		N/A
	Delete "class 0" and "class 01" Single-phase appliances to be connected to the supply mains: 230 V covered Multi-phase appliances to be connected to the supply mains: 400 V covered The instructions include the substance of the following of this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved - children shall not play with the appliance - cleaning and user maintenance shall not be made by children without supervision Also test probe 18 of EN 61032 is applied The appliance being in every possible position during the test except that appliances normally used on the floor and having a mass exceeding 40 kg are not tilted The force on the probe in the straight position is	Delete "class 0" and "class 01" Single-phase appliances to be connected to the supply mains: 230 V covered Multi-phase appliances to be connected to the supply mains: 400 V covered The instructions include the substance of the following: - this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved - children shall not play with the appliance - cleaning and user maintenance shall not be made by children without supervision Also test probe 18 of EN 61032 is applied The appliance being in every possible position during the test except that appliances normally used on the floor and having a mass exceeding 40 kg are not tilted The force on the probe in the straight position is

TRF No. IEC60335 1X



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Clause	Requirement - Test	Result - Remark	Verdict
	When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and		N/A
	parts intended to be removed for user maintenance are also not removed		N/A
8.1.3	Instead of test probe B, test probe 18 and test probe 13, for appliances other than those of class II, test probe 41 of IEC 61032 is applied with a force not exceeding 1 N to live parts of visibly glowing heating elements, all poles of which can be disconnected by a single switching action	LCS Test	N/A
8.2	Compliance is checked by applying the test probes of EN 61032		N/A
	For built-in appliances and fixed appliances, the test probe B and probe 18 of EN 61032 are applied only after installation		N/A
15.1.2	Appliances with an automatic cord reel tested with the cord in the most unfavourable position so that the reeling of the wet cord may affect electrical insulation during operation, the cord not being dried before reeling	· 公测股份	N/A
20.2	For appliances having dangerous moving parts, due to their working function, e.g. the needle of a sewing machine, tools of kitchen machines or the blade of an electrical knife, full protection is not possible for performing their intended use	LCS Testing Land	N/A
	When using a test probe similar to test probe B of EN 61032, having a circular stop face and applied with a force of 5N, the accessories and detachable covers are removed		N/A
	When using test probe 18 it is applied with a force of 2,5N on the appliance fully assembled		N/A
22.12	Other parts intended to be detached during use, maintenance or cleaning (e.g. batteries, battery covers, lids, attachments, steam nozzles) are not considered as parts providing a similar function as handles, knobs, grips, levers	LCS TOST	N/A
22.17	The requirement is not applicable to built-in appliances		N/A
24.1	Components comply with the safety requirements specified in the relevant EN standards as far as they reasonably apply		Р

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REPORT NO.: LCSA040323267S001 Attachment No.1: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Result - Remark Verdict Clause Requirement - Test Motors are not required to comply with EN 60034-N/A 1, but tested as part of the appliance according to this standard Relays are tested as part of the appliance N/A according to this standard Relays may be alternatively tested to EN 60730-1 N/A and the additional requirements in EN 60335-1 The requirements of Clause 29 of this standard Ρ apply between live parts of components and accessible parts of the appliance. Components may comply with the requirements for Ρ clearances and creepage distances for functional insulation as specified in the relevant component standard Ρ The requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components Ρ Components that have not been previously tested or do not comply with the standard for the relevant component are tested according to the requirements of 30.2 Components that have been previously tested and shown to comply with the N/A resistance to fire requirements in the standard for the relevant component need not be retested provided that: - the severity specified in the component standard N/A is not less than the severity specified in 30.2, and N/A - the test report for the component states the values of t_e and t_i acc. to EN 60695-2-11 N/A If the above two conditions are not satisfied,

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appliance

this standard

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the component is tested as part of the

Power electronic converter circuits are not required to comply with EN 62477-1, but tested as part of the appliance according to

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N/A



Clause	Requirement - Test	Result - Remark	Verdic
	Unless components have been previously tested and found to comply with the relevant standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9		N/A
	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant standard for the component are necessary other than those specified in 24.1.1 to 24.1.9		Р
VSI T	Components that have not been separately tested and found to comply with the relevant standard, and	LCS Test	Р
	components that are not marked or not used in accordance with their marking,		N/A
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard		Р
讯检测股化	Lamp holders and starter holders that have not been previously tested and found to comply with the relevant standard are tested as a part of the appliance and additionally comply with the gauging and interchangeability requirements of the relevant standard under the conditions occurring in the appliance	立语检测股份 ics Testing Lab	N/A
	Where the relevant standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used		N/A
	There are no additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of EN 60320-1 and EN 60309, unless they are specifically mentioned in the text of this standard		N/A
NE T	Plugs and socket-outlets and other connecting devices of interconnection cords are not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1, or	LCS Test	N/A
	with connectors and appliance inlets complying with the standard sheets of IEC 60320-1,		N/A
	direct supply to these parts from the supply mains gives rise to a hazard		N/A
	For plugs used in CENELEC countries Annex ZH applies		N/A



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Clause	Requirement - Test	Result - Remark	Verdict
24.1.7	If the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is EN 41003		N/A
	Compliance with Clause 8 of this standard is not impaired by connecting the appliance to a device covered by EN 41003		N/A
24.Z1	Type S2 and S3 capacitors according to EN 60252-1 are not required to undergo the testing as required by 30.2.2 and 30.2.3.1	LCS Test	N/A
25.1	Plugs and pins for insertion into socket outlets follow the relevant standards sheets in Annex ZH		N/A
25.7	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors, or		N/A
	when they are liable to be exposed to significant amount of ultraviolet radiation		N/A
25.25	Instead of IEC/TR 60083, dimensions of the pins and engagement face of plugs of appliances that are inserted into socket-outlets are in accordance with the dimensions of the relevant plug standard	工语检测股份 工语检测及Lab	N/A
,0-	Common plugs and socket-outlets types in CENELEC countries as shown in Annex ZH	1	N/A
26.11	Conductors connected by soldering are not considered to be positioned or fixed so that reliance is not placed upon the soldering alone to maintain them in position unless they are held in place near the terminals independently of the solder		N/A
29.3.Z1	Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2		N/A
32	Compliance regarding electromagnetic fields is checked according to EN 62233	13 LCS Test	Р
Annex I, 19.I.101	The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified		N/A
	The duration of the test is as specified in 19.7		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
ZA	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS		Р
	Denmark, Sweden, Norway and Finland		N/A
7.12.8	The maximum inlet water pressure is at least 1,0 MPa:		N/A
ين	A检测限 公司检测限 公司检测限 公司	对开:	
	Norway	LCST	N/A
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring		N/A
	Norway		N/A
22.2	The second paragraph of this subclause, dealing with single-phase, permanently connected class I appliances having heating elements, is not applicable due to the supply system		N/A
ar 4	an Hi	rate.	
· ···································	Denmark	古语位 ing Lab	N/A
22.47	The maximum inlet water pressure is at least 1,0 MPa:	LCS To	N/A
	Ireland and United Kingdom		N/A
25.8	In the table, the lines for 10 A and 16 A are replaced	by:	N/A
	> 10 and ≤ 13 1,25 (1,0) ^b		N/A
	> 13 and ≤ 16 1,5 (1,0) ^b		N/A
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS	The contract of the contract o	N/A
1191	STORY LCS TO	151 LCST	
	Ireland		N/A
25.6	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances		N/A

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Attachment No.1: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Result - Remark Verdict Clause Requirement - Test

REPORT NO.: LCSA040323267S001

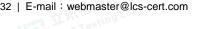
	United Kingdom		N/A
25.1 and 25.25	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances.		N/A
	It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes	立 讯检	N/A
1/8/1	LIST LCST	LCS T	
ZC	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONAL THEIR CORRESPONDING EUROPEAN PUBLICAT		Р
	A list of documents referred to in the text of this standard in such a way that some or all of their content constitutes requirements of this document		Р
ZD	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR F	LEXIBLE CORDS	Р
LiH检测版 CS Testing	A table with IEC and CENELEC code designations for flexible cords	立语版测度Lab	Р
ZE	ANNEX ZE (INFORMATIVE) SPECIFIC ADDITIONAL REQUIREMENTS FOR AF MACHINES INTENDED FOR COMMERCIAL USE	PPLIANCES AND	N/A
7.1	Business name and full address of the manufacturer and, where applicable, his authorized representative:		N/A
	Model or type reference:		N/A
	Serial number, if any:		N/A
	Production year	二流性	N/A
1/5/2	Designation of the appliance:	MS LCS TI	N/A
	Instructions provided with the appliance so that the		N/A
7.12	appliance can be used safely		
7.12	appliance can be used safely The instructions contain at least the following informations are contained as the following information and the contained appliance can be used safely	ation:	N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	- model or type reference of the appliance as marked on the appliance itself, except for the serial number		N/A
	- the designation of the appliance together with its explanation in case it is given by a combination of letters and/or numbers		N/A
	- the general description of the appliance, when needed due to the complexity of the appliance	7.5	N/A
181	- specific precautions if required during installation, operation, adjusting, user maintenance, cleaning, repairing or moving	151 LCST	N/A
	- when needed drawings, diagrams, descriptions and explanations necessary for the safe use and user maintenance of the appliance		N/A
	- the possible reasonably foreseeable misuse and, whenever relevant, a warning against the effects it may have on the safe use of the appliance		N/A
Y DA IIII-	The words "Original instructions" appear on the language version(s) verified by the manufacturer or by the authorized representative	THE SEE WAY	N/A
CS Testing L	When a translation of the original instructions has been provided by a person introducing the appliance on the market; the meaning of the sentence "Translation of the original instructions" appear in the relevant instructions delivered with the appliance	LCS Testing Lab	N/A
	The instructions for maintenance/service to be done by specialized personnel, mandated by the manufacturer or the authorized representative may be supplied in only one Community language which the specialized personnel understand		N/A
	The instructions indicate the type and frequency of inspections and maintenance required for safe operation including the preventive maintenance measures	江 田村	N/A
7.12.ZE1	If needed for specific appliances, the following inform	nation to be given:	N/A
	- on use, transportation, assembly, dismantling when out of service, testing or foreseeable breakdowns, if these operations have consequences on stability of the appliance in order to avoid overturning, falling or uncontrolled movements of the appliance or of its component parts		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	- on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance		N/A
	- on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided		N/A
NE T	- on the operating method to be followed in the event of accident or breakdown; if a blockage is likely to occur the operating method to safely unblock the appliance	LCS T	N/A
	- on the specifications on the spare parts to be used, when these affect the health and safety of the operator		N/A
	- on airborne noise emissions, determined and declarelevant Part 2, which includes:	ared in accordance with the	N/A
	- the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A);		N/A
讯检测股	- where this level does not exceed 70 dB(A), this fact is indicated	方讯检测股份 nalab	N/A
CS Testino	- the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 μPa):	CSTesting	N/A
	- the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A): :		N/A
7.12.ZE2	The instructions includes a warning to disconnect the appliance from its power source during service and when replacing parts		N/A
NE T	If the removal of the plug is foreseen, it is clearly indicated that the removal of the plug has to be such that an operator can check from any of the points to which he has access that the plug remains removed	TEST LEST	N/A
	If this is not possible, due to the construction of the appliance or its installation, a disconnection with a locking system in the isolated position is provided		N/A

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Atta	achment No.1: EUROPEAN GROUP DIFFERENCES	AND NATIONAL DIFFERENCE	ES CS
Clause	Requirement - Test	Result - Remark	Verdic
19.11.4.8	The appliance continues to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage fluctuation occurred, or		N/A
	a manual operation is required to restart it		N/A
20.1	Appliances and their components and fittings have adequate mechanical stability during transportation, assembly, dismantling and any other action involving the appliance	立流	N/A
20.2	Dangerous moving transmission parts safeguarded either by design or guards	TEN LOS	N/A
	When guards are used, they are fixed guards, interlocking movable guards or protective devices		N/A
	Moving parts directly involved in the function of the a made completely inaccessible fitted with:	ppliance which cannot be	N/A
	- fixed guards or interlocking movable guards preventing access to those sections of the parts that are not used in the work, and		N/A
i讯检测股份	- adjustable guards restricting access to those sections of the moving parts where access is necessary	立讯检测股份 Testing Lab	LCOAZ
C2 ,	Interlocking movable guards used where frequent access is required	, res ,	N/A*
21.1	Appliances and their components and fittings have adequate mechanical strength and is constructed to withstand such rough handling that may be expected in normal use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance		N/A
22.ZE.1	For appliances provided with a seat, the seat gives adequate stability		N/A
يد .	The distance between the seat and the control devices capable of being adapted to the operator	TH:	N/A
22.ZE.2	For appliances provided with separate devices for the start and the stop functions, the stop function is unambiguously identifiable and does always override the start function	150 LCST	N/A
			N1/A

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performing the start and the stop function, the stop function is unambiguously identifiable and does

For appliances provided with one device

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always override the start function



Clause	Requirement - Test	Result - Remark	Verdic
22.ZE.3	Appliances designed in such a way that incorrect mounting is avoided, if this can lead to an unsafe situation		N/A
	If this is not possible, information on the correct mounting is given directly on the part and/or the enclosure		N/A
22.ZE.4	Where the weight, size or shape prevents appliances from being moved manually, they are fitted with attachments for lifting gear, or	立讯馆	N/A
184	so designed that they can be fitted with such attachments, or	100	N/A
	be shaped in such a way that standard lifting gear can easily be used		N/A
	Appliances to be moved manually are constructed or equipped so that they can be moved easily and safely		N/A
22.ZE.5	The fixing systems of fixed guards which prevent access to dangerous moving transmission parts only removable with the use of tools		N/A
Lind 测版(Los Testing)	If such guards have to be removed by the user for routine cleaning or maintenance their fixing systems remain attached to the fixed guards or to the machine after removal	立讯检测股切 LCS Testing Lab	N/A
	Where possible, guards are incapable of remaining in place without their fixings		N/A
	This does not apply if, after removal of the screws, or if the component is incorrectly repositioned, the appliance becomes inoperative		N/A
	Movable guards are interlocked		N/A
4	The interlocking devices prevent the start of hazardous appliance functions until the guards are fixed in their position, and give a stop command whenever they are no longer closed	竹肝	N/A
184	Where it is possible for an operator to reach the danto hazardous appliance functions has ceased, moval guard locking device in addition to an interlocking de	ble guards associated with a	N/A
	- prevents the start of hazardous appliance functions until the guard is closed and locked, and		N/A
	- keeps the guard closed and locked until the risk of injury from the hazardous appliance functions has ceased		N/A

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Clause	Requirement - Test	Result - Remark	Verdict
	Interlocking movable guards remain attached to the appliance when open, and		N/A
	they are designed and constructed in such a way that they can be adjusted only by means of an intentional action		N/A
22.ZE.6	Interlocking movable guards designed in such a way that the absence or failure of one of their components prevents starting or stops the hazardous appliance functions	· 二 立语性	N/A
	The guard is opened to the extent needed to cause the interlocking to operate and is then closed, the number of operations being defined in the specific Part 2	Too .	N/A
	After this test any defect that may be expected in normal use is applied to the interlock system, including interruption of the supply, only one defect being simulated at a time		N/A
	After these tests the interlock system is fit for further use		N/A
22.ZE.7	Adjustable guards restricting access to areas of the necessary for the work are:	moving parts strictly	N/A
CS Testino	- adjustable manually or automatically, depending on the type of work involved, and	LCSTesting	N/A
	- readily adjustable without the use of tools		N/A
22.ZE.8	In case of interruption, re-establishment after an interruption or fluctuation in whatever manner of the power supply, the appliance does not restart		N/A
	However, automatic restarting of the operation is allowed if the appliance may continue to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage interruption or fluctuation occurred		N/A
22.ZE.9	Appliances fitted with means to isolate them from all energy sources	河	N/A
1132	Such isolators are clearly identified, and	100	N/A
	they are capable of being locked if reconnection endanger persons		N/A
	After the energy source is disconnected, it is possible to dissipate any energy remaining or stored in the circuits of the appliance without risk to persons		N/A

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Attachment No.1: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Result - Remark Verdict Clause Requirement - Test

REPORT NO.: LCSA040323267S001

ZF	ANNEX ZF (INFORMATIVE) CRITERIA APPLIED FOR THE ALLOCATION OF PRODUCTS CO STANDARDS IN THE EN 60335 SERIES UNDER LVD OR MD	VERED BY
	List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive):	N/A
ZG	ANNEX ZG (NORMATIVE) UV APPLIANCES	N/A
181	The following modifications to this standard apply to appliances having UV emitters	N/A
	This annex is not applicable to appliances covered by the scopes of IEC 60335-2-27, IEC 60335-2-59 or IEC 60335-2-109	N/A
7.12.ZG	The instructions for appliances incorporating UVC emitters include the substance of the following: WARNING — This appliance contains a UV emitter. Do not stare at the light source	N/A
32	For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant	N/A
ZH	ANNEX ZH (INFORMATIVE) Common plug and socket-outlet types in CENELEC countries	N/A
	In general, supply cords of single-phase appliances having a rated current not exceeding 16 A are fitted with a plug complying with the following standard sheets:	N/A
	- for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4:	N/A
	- for class II appliances, standard sheet EU5, EU6 or EU7	N/A
	There are exemptions or differences in certain CENELEC countries	N/A
ZZA	ANNEX ZZA (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND TO OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 OJ L96] AIMED TO COVERED	
	This standard provides one means of conforming to safety objectives of Directive 2014/35/EU	N/A

TRF No. IEC60335_1X



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A	ttachment No.1: EUROPEAN GROUP DIFFERENCES	AND NATIONAL DIFFERENC	LO
Clause	Requirement - Test	Result - Remark	Verdict
	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers a presumption of conformity with the safety objectives of that Directive and associated EFTA regulations		N/A
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives	# H. F.	N/A
ZZB	ANNEX ZZB (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STA ESSENTIAL REQUIREMENTS OF DIRECTIVE 200 COVERED		N/A
	This standard provides one means of conforming to essential requirements of EU Directive 2006/42/EC		N/A
用检测版	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations	古田位测度份 alab	N/A
CS Testing	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety requirements	LCS Testins	N/A

Annex EN 62233:2008						
Clause	Requirement + Test	Result - Remark	Verdict			
EMF- ELECTROMAGNETICS FIELDS						
Т	The tested product also complies with the requirements of EN 62233:2008		Р			
L	mit100%	Measured max. : 1.120%	股份P			



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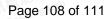


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Attachment No.2 Product Photos

Overview for model MO6949 Details of:



Overview for model MO6949 Details of:



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Attachment No.2 Product Photos

Overview for model MO6949 Details of:



Details of: Overview for model MO6949



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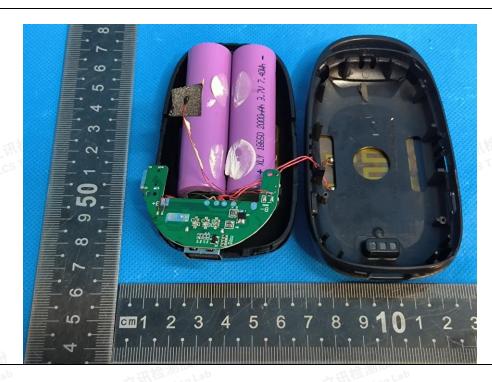
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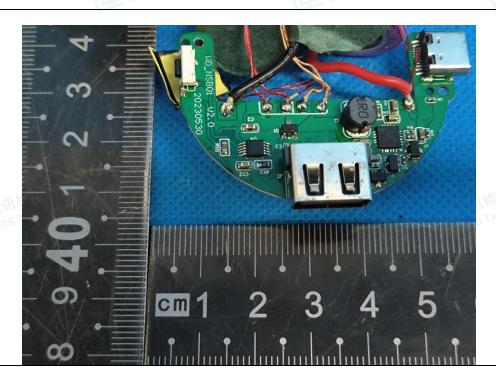


Attachment No.2 Product Photos

Details of: Internal view for model MO6949



Details of: PCB view for model MO6949



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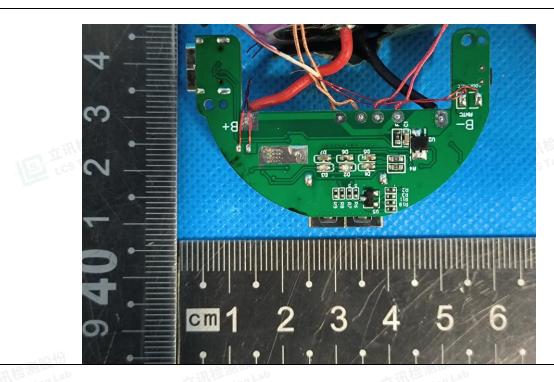
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Product Photos Attachment No.2

Details of: PCB view for model MO6949



Details of: Battery view for model MO6949



----End of test report----

TRF No. IEC60335_1X



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