

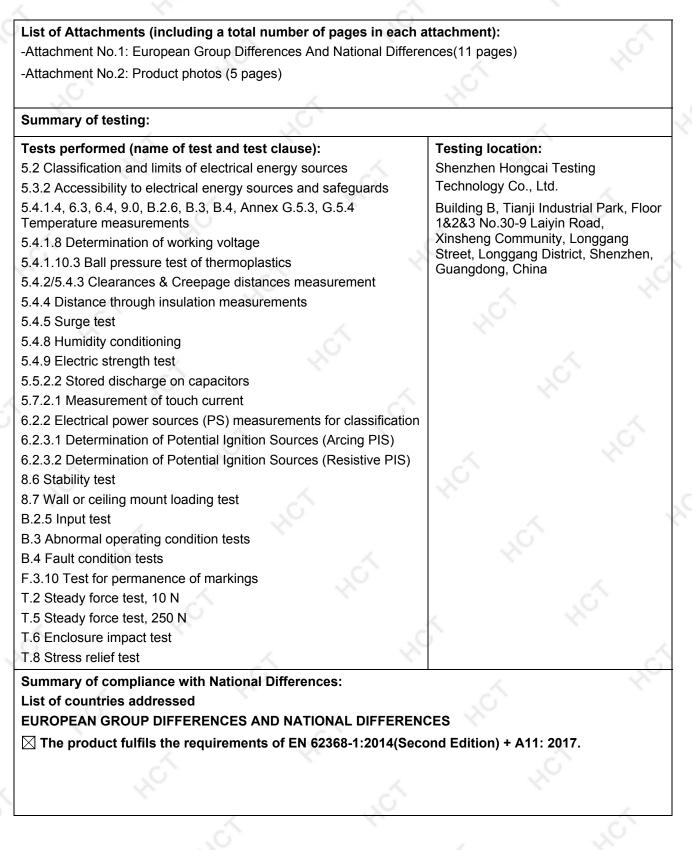
	TEST REPORT IEC 62368-1
Audio/video, infor	mation and communication technology equipment
.C	Part 1: Safety requirements
Report Number:	WTH21H12135623Y
Date of issue:	2021-12-28
Total number of pages	63 pages
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Applicant's name:	Full Strike Ltd.
Address:	Room 16C Wenwei Building, No. 322 Fuhua Road Futian Dist., Shenzhen, 518026 PRC.
Test specification:	× H
Standard	IEC62368-1:2014(Second Edition)+EU Deviation
Test procedure:	Type test
Non-standard test method:	N/A
Test Report Form No	IEC62368_1B
Test Report Form(s) Originator:	UL(US)
Master TRF	2014-03
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# Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Digital to Analogue Audio Converter Power Input: 5.0 V DC / 0.6 A Consumed Power (Max): 3 W Nedis B.V., De Tweeling 28, 5215 MC 's-Hertogenbosch the Netherlands

Batch:

Made in China.

1. As declared by the applicant the authorized EEA representative or importer was not decided at the time of application, but will be marked on the products before placing them on the market.

2. The height dimension of WEEE symbol should not less than 7mm.

IEC62368\_1B

#AMID現志を活動見木有線と可 Shenchane Hongean Lesting Technology Co., Lia 学者合新研市党規模応表得前達新生社区実育第30-9号 し高、2 長、3 長、天基工业屋 B 核厂房 Sudiding B, Tianji Industrial Park, Floor I &2&83 No.30-9 Laiyin Road, Xinsheng Community, .onggang Street, Longgang District, Shenzhen, Guangdong, China Veb: www.hct-test.com Email: hongca@hct-test.com 无 CMA 标识程件中的结果仅用于客户科研、教学、内部磁量控制、产品研发等目的、促供内部参考、对社会不具有证明作用。 有 CNAS 标识报告中的"\*"代表该检测项目智未申请 CNAS 认可。The result(s) in no CMA logo report shall only be used for client's scientific research, teaching, internal quality control, product research and development, etc..and just for internal reference. does not prove to society. The "\*" in CNAS logo report means that the test item(s) was (were) currently not applying for CNAS accreditation. Tel: 0755-846166666 Service Te: 400-0066-989 Fax: 0755-89594380



TEST ITEM PARTICULARS:	
Classification of use by:	<ul> <li>Ordinary person</li> <li>Instructed person</li> <li>Skilled person</li> <li>Children likely to be present</li> </ul>
Supply Connection	<ul> <li>□ AC Mains</li> <li>□ DC Mains</li> <li>○ External Circuit - not Mains connected</li> <li>- ○ ES1</li> <li>□ ES2</li> <li>□ ES3</li> </ul>
Supply % Tolerance:	<ul> <li>□ +10%/-10%</li> <li>□ +20%/-15%</li> <li>□ +%/%</li> <li>□ None</li> </ul>
Supply Connection – Type:	<ul> <li>pluggable equipment type A -</li> <li>non-detachable supply cord</li> <li>appliance coupler</li> <li>direct plug-in</li> <li>mating connector</li> <li>pluggable equipment type B -</li> <li>non-detachable supply cord</li> <li>appliance coupler</li> <li>permanent connection</li> <li>mating connector</li> <li>other:_ Supplied by external 5Vdc power supply _</li> </ul>
Considered current rating of protective device as part of building or equipment installation	N/A
Equipment mobility	<ul> <li>☐ movable</li> <li>☐ hand-held</li> <li>☐ transportable</li> <li>☐ stationary</li> <li>☐ for building-in</li> <li>☐ direct plug-in</li> <li>☐ rack-mounting</li> <li>☑ wall-mounted</li> </ul>
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC III □ OVC IV ☑ other: Supplied by external 5Vdc power supply _
Class of equipment	Class I Class II Class III
Access location:	□ restricted access location
Pollution degree (PD)	□ PD 1
Manufacturer's specified maxium operating ambient:	70°C
IP protection class	⊠ IPX0 □ IP_20
Power Systems	⊠ TN ⊠ TT □ IT V <sub>L-L</sub>
Altitude during operation (m)	🖾 2000 m or less 🔲 m
Altitude of test laboratory (m)	⊠ 2000 m or less □ m
Mass of equipment (kg)	⊠0.062_ kg

### IEC62368\_1B

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POSSIBLE TEST CASE VERDICTS:	X	~
- test case does not apply to the test object:	N/A	20
- test object does meet the requirement:	P (Pass)	
- test object does not meet the requirement:	F (Fail)	c.
TESTING:	4	4
Date of receipt of test item:	2021-12-07	
Date (s) of performance of tests	2021-12-07 to 2021-12-14	

# GENERAL REMARKS:

"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.

Throughout this report a  $\Box$  comma /  $\boxtimes$  point is used as the decimal separator.

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

The application for obtaining a Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes ⊠ Not applicable	X

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies)	Full Strike Ltd.
	No. 123 Building A, Investment & Venture Center, Jinhui West Road, Yinzhou Dist., Ningbo City, Zhejiang Provice, China
ict Ho	JOT T

# GENERAL PRODUCT INFORMATION:

# Product Description -

1. The device under test (EUT) is a digital-to-stereo audio converter with an external switching power supply for indoor use only.

2. The maximum ambient temperature specified by manufacturer is 70°C.

Model Differences – All models are same except the model name.

Additional application considerations - (Considerations used to test a component or sub-assembly) -

### IEC62368\_1B

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ENERGY SOURCE IDENTIFICATION AND CLASSIFICA	TION TABLE:	
(Note 1: Identify the following six (6) energy source forms (Note 2: The identified classification e.g., ES2, TS1, shou on the body or its ability to ignite a combustible material. worse case classification e.g. PS3, ES3.	uld be with respect to it	ts ability to cause pain or injury
Electrically-caused injury (Clause 5):		
(Note: Identify type of source, list sub-assembly or circuit	designation and corre	esponding energy source
classification)	-	
Example: +5 V dc input	ES1	
Source of electrical energy	Corresponding cla	assification (ES)
All circuit	ES1	A.
Electrically-caused fire (Clause 6):		
(Note: List sub-assembly or circuit designation and c Example: Battery pack (maximum 85 watts):	corresponding energy PS2	y source classification)
Source of power or PIS	Corresponding cla	assification (PS)
All circuit	PS1	
Injury caused by hazardous substances (Clause 7)		
(Note: Specify hazardous chemicals, whether produces of part of the component evaluation.) Example: Liquid in filled component	ozone or other chemica Glyco	
Source of hazardous substances	Corresponding ch	emical
	- ,	L.
Mechanically-caused injury (Clause 8)		
(Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit	& corresponding MS cl MS2	lassification based on Table 35.)
Source of kinetic/mechanical energy	Corresponding cla	assification (MS)
Sharp edges and Corners	MS1	
Equipment mass	MS1	
Thermal burn injury (Clause 9)		
(Note: Identify the surface or support, and corresponding e location, operating temperature and contact time in Table Example: Hand-held scanner – thermoplastic enclosure		ation based on type of part,
Source of thermal energy	Corresponding cla	assification (TS)
External enclosure	TS1	
Radiation (Clause 10)		
(Note: List the types of radiation present in the product and Example: DVD – Class 1 Laser Product	d the corresponding en RS1	ergy source classification.)
Type of radiation	Corresponding cla	assification (RS)
		<i>K</i>
A HOT	101	4×0

### IEC62368\_1B

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OVERVIEW OF EMPLOYED				
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part	Energy Source		Safeguards	
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary person	ES1: All circuit	N/A	N/A	N/A
Ordinary person	ES1: Output port	N/A	N/A	N/A
6.1	Electrically-caused fire			
Material part	Energy Source		Safeguards	
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced
Metal enclosure	All circuit (PS1)	N/A	N/A	N/A
Metal enclosure	Audio signal output (PS1)	N/A	N/A	N/A
7.1	Injury caused by hazardous subs	tances		
Body Part	Energy Source (hazardous material)	Safeguards		
(e.g., skilled)		Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
8.1	Mechanically-caused injury			
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementary	Reinforced (Enclosure)
Ordinary person	MS1: Sharp edges and Corners	N/A	N/A	N/A
Ordinary person	MS1: Equipment mass (0.062kg)	N/A	N/A	N/A
9.1	Thermal Burn			
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforced
Ordinary person	TS1: External enclosure	N/A	N/A	N/A
10.1	Radiation			L
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A

(1) See attached energy source diagram for additional details.

(2) "N" - Normal Condition; "A" - Abnormal Condition; "S" Single Fault

## IEC62368\_1B

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IEC.	02300-1

IEC 62308-1				
Clause	Requirement + Test	Result - Remark	Verdict	
S.		NO.	~	

4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	,XC	Р
4.1.2	Use of components		Р
4.1.3	Equipment design and construction	- G	Р
4.1.15	Markings and instructions:	(See Annex F)	Р
4.4.4	Safeguard robustness	1	P
4.4.4.2	Steady force tests:	(See Annex T.4, T.5)	N/A
4.4.4.3	Drop tests:		Р
4.4.4.4	Impact tests:	(See Annex T.6)	N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	(See Annex T.3)	N/A
4.4.4.6	Glass Impact tests	(See Annex T.9, Annex U)	N/A
4.4.4.7	Thermoplastic material tests:	(See Annex T.8)	N/A
4.4.4.8	Air comprising a safeguard:	(See Annex T)	N/A
4.4.4.9	Accessibility and safeguard effectiveness	× ×	Р
4.5	Explosion	~~	N/A
4.6	Fixing of conductors		N/A
4.6.1	Fix conductors not to defeat a safeguard	- G	N/A
4.6.2	10 N force test applied to:		N/A
4.7	Equipment for direct insertion into mains socket - outlets	d'	N/A
4.7.2	Mains plug part complies with the relevant standard		N/A
4.7.3	Torque (Nm):		N/A
4.8	Products containing coin/button cell batteries	X X	N/A
4.8.2	Instructional safeguard	301	N/A
4.8.3	Battery Compartment Construction		N/A
	Means to reduce the possibility of children removing the battery:	JC I	
4.8.4	Battery Compartment Mechanical Tests:	(See Table 4.8.4)	N/A
4.8.5	Battery Accessibility	4	N/A
4.9	Likelihood of fire or shock due to entry of conductive object	(See Annex P)	N/A

### IEC62368\_1B

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IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict 5 **ELECTRICALLY-CAUSED INJURY** Р 5.2.1 Ρ Electrical energy source classifications ......: (See appended table 5.2) 5.2.2 ES1, ES2 and ES3 limits Ρ 5.2.2.2 Р Steady-state voltage and current.....: See appended table 5.2) 5.2.2.3 Capacitance limits .....: (See appended table 5.2) N/A 5.2.2.4 Single pulse limits .....: (See appended table 5.2) N/A 5.2.2.5 Limits for repetitive pulses .....: (See appended table 5.2) N/A 5.2.2.6 N/A Ringing signals ..... (See Annex H) Audio signals .....: 5.2.2.7 (See Clause E.1) N/A 5.3 Protection against electrical energy sources N/A 5.3.1 General Requirements for accessible parts to N/A ordinary, instructed and skilled persons 5.3.2.1 Accessibility to electrical energy sources and N/A safeguards 5.3.2.2 N/A Contact requirements a) Test with test probe from Annex V .....: Not contact a bare internal N/A conductive part. b) Electric strength test potential (V) .....: N/A N/A c) Air gap (mm) .....: 5.3.2.4 N/A Terminals for connecting stripped wire 5.4 N/A Insulation materials and requirements 5.4.1.2 N/A Properties of insulating material 5.4.1.3 Humidity conditioning .....: (See sub-clause 5.4.8) N/A 5.4.1.4 Maximum operating temperature for insulating (See appended table 5.4.1.4) N/A materials .....: 5.4.1.5 Pollution degree ..... Pollution degree 2 5.4.1.5.2 Test for pollution degree 1 environment and for an N/A insulating compound 5.4.1.5.3 Thermal cycling N/A 5.4.1.6 Insulation in transformers with varying dimensions N/A 5.4.1.7 N/A Insulation in circuits generating starting pulses 5.4.1.8 Determination of working voltage N/A 5.4.1.9 Insulating surfaces N/A 5.4.1.10 Thermoplastic parts on which conductive metallic N/A parts are directly mounted 5.4.1.10.2 Vicat softening temperature .....: (See appended table 5.4.1.10.2) N/A N/A 5.4.1.10.3 Ball pressure ..... (See appended table 5.4.1.10.3) 5.4.2 Clearances N/A

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IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict 5.4.2.2 (See appended table 5.4.2.2) N/A Determining clearance using peak working voltage 5.4.2.3 Determining clearance using required withstand (See appended table 5.4.2.3) N/A voltage ..... a) a.c. mains transient voltage ...... b) d.c. mains transient voltage .....: c) external circuit transient voltage .....: d) transient voltage determined by measurement ...... 5.4.2.4 Determining the adequacy of a clearance using an (See appended table 5.4.2.4) N/A electric strength test 5.4.2.5 <2000m Multiplication factors for clearances and test N/A voltages .....: 5.4.3 Creepage distances .....: (See appended table 5.4.3) N/A 5.4.3.1 General N/A 5.4.3.3 Material group IIIb is assumed to be Material Group used 5.4.4 Solid insulation N/A 5.4.4.2 Minimum distance through insulation .....: (See appended table 5.4.4.2) N/A 5.4.4.3 Insulation compound forming solid insulation N/A 5.4.4.4 Solid insulation in semiconductor devices N/A 5.4.4.5 Cemented joints N/A 5.4.4.6 Thin sheet material N/A 5.4.4.6.1 General requirements N/A 5.4.4.6.2 Separable thin sheet material N/A Number of layers (pcs) .....: N/A 5.4.4.6.3 Non-separable thin sheet material N/A 5.4.4.6.4 Standard test procedure for non-separable thin N/A sheet material..... 5.4.4.6.5 Mandrel test N/A 5.4.4.7 Solid insulation in wound components N/A 5.4.4.9 Solid insulation at frequencies >30 kHz .....: N/A (See appended Table 5.4.4.9) 5.4.5 Antenna terminal insulation N/A 5.4.5.1 N/A General 5.4.5.2 Voltage surge test N/A Insulation resistance ( $M\Omega$ )..... L/N to antenna: Min 200 M $\Omega$ 5.4.6 Insulation of internal wire as part of (See appended table 5.4.4.2) N/A supplementary safeguard .....:

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IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict 5.4.7 Tests for semiconductor components and for N/A cemented joints 5.4.8 Humidity conditioning N/A Relative humidity (%)..... Temperature (°C) ..... Duration (h) ..... 5.4.9 Electric strength test .....: N/A (See appended table 5.4.9) 5.4.9.1 Test procedure for a solid insulation type test N/A 5.4.9.2 Test procedure for routine tests N/A 5.4.10 Protection against transient voltages between No transient voltage from external N/A external circuit circuit 5.4.10.1 Parts and circuits separated from external circuits (See appended table 5.4.9) 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 (See appended table 5.4.9) 5.4.10.2.3 Steady-state test..... (See appended table 5.4.9) N/A 5.4.11 Insulation between external circuits and earthed (See appended table 5.4.9) N/A circuitry .....: 5.4.11.1 Exceptions to separation between external N/A circuits and earth 5.4.11.2 N/A Requirements Rated operating voltage U<sub>op</sub> (V).....: Nominal voltage U<sub>peak</sub> (V).....: Max increase due to variation U<sub>sp</sub> .....: Max increase due to ageing  $\Delta U_{sa}$  .....  $U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$  ..... 5.5 Components as safeguards 5.5.1 General 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 (See appended table 5.5.2.2) N/A disconnection of a connector.....: 5.5.3 N/A Transformers (See Annex G.5.3) 5.5.4 (See sub-clause 5.4 or Annex G.12) N/A Optocouplers 5.5.5 Relays (See Annex G.2) N/A (See Annex G.10) N/A 5.5.6 Resistors SPD's 5.5.7 N/A (See Annex G.8)

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IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict 5.5.7.1 Use of an SPD connected to reliable earthing N/A 5.5.7.2 Use of an SPD between mains and protective N/A earth Insulation between the mains and external circuit 5.5.8 (See Annex G.10.3) N/A consisting of a coaxial cable.....: 5.6 Protective conductor N/A 5.6.2 Requirement for protective conductors N/A 5.6.2.1 General requirements N/A 5.6.2.2 Colour of insulation N/A 5.6.3 Requirement for protective earthing conductors N/A Protective earthing conductor size (mm<sup>2</sup>) ..... 5.6.4 Requirement for protective bonding conductors N/A 5.6.4.1 Protective bonding conductors N/A Protective bonding conductor size (mm<sup>2</sup>)..... Protective current rating (A) ..... : 5.6.4.3 Current limiting and overcurrent protective N/A devices 5.6.5 Terminals for protective conductors N/A 5.6.5.1 N/A Requirement Conductor size (mm<sup>2</sup>), nominal thread diameter N/A (mm). ..... 5.6.5.2 N/A Corrosion 5.6.6 Resistance of the protective system N/A 5.6.6.1 N/A Requirements 5.6.6.2 Test Method Resistance (Ω)..... (See appended table 5.6.6.2) N/A 5.6.7 N/A Reliable earthing 5.7 Prospective touch voltage, touch current and protective conductor current N/A 5.7.2 N/A Measuring devices and networks 5.7.2.1 Measurement of touch current .....: N/A 5.7.2.2 N/A Measurement of prospective touch voltage 5.7.3 Equipment set-up, supply connections and earth N/A connections System of interconnected equipment (separate connections/single connection) .....: Multiple connections to mains (one connection at a time/simultaneous connections) .....: 5.7.4 N/A Earthed conductive accessible parts..... (See appended Table 5.7.4) 5.7.5 Protective conductor current N/A

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Clause	Requirement + Test	Result - Remark	Verdict
		.0	
N.	Supply Voltage (V)	N.	
-	Measured current (mA)	4	
	Instructional Safeguard	(See F.4 and F.5)	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits		N/A
5.7.6.1	Touch current from coaxial cables		N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits		N/A
5.7.7	Summation of touch currents from external circuits	× *	N/A
2º	a) Equipment with earthed external circuits Measured current (mA)	the second	N/A
	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	. 6	N/A
	X	×.	•

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		
6.2.2	Power source circuit classifications	G.	Р
6.2.2.1	General	1 × × × × × × × × × × × × × × × × × × ×	Р
6.2.2.2	Power measurement for worst-case load fault :	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault:	(See appended table 6.2.2)	Р
6.2.2.4	PS1:	(See appended table 6.2.2)	Р
6.2.2.5	PS2:	(See appended table 6.2.2)	N/A
6.2.2.6	PS3	(See appended table 6.2.2)	N/A
6.2.3	Classification of potential ignition sources		N/A
6.2.3.1	Arcing PIS	(See appended table 6.2.3.1)	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	N/A
6.3	Safeguards against fire under normal operating and	l abnormal operating conditions	N/A
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	N/A
6.3.1 (b)	Combustible materials outside fire enclosure		N/A
6.4	Safeguards against fire under single fault conditions	3	Р
6.4.1	Safeguard Method	A N	N/A
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	X0	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	j.	N/A

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IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict 6.4.3.1 General N/A 6.4.3.2 Supplementary Safequards N/A Special conditions if conductors on printed boards N/A are opened or peeled 6.4.3.3 Single Fault Conditions ...... (See appended table B.4) N/A Special conditions for temperature limited by fuse N/A Control of fire spread in PS1 circuits Р 6.4.4 6.4.5 Control of fire spread in PS2 circuits N/A 6.4.5.2 N/A Supplementary safeguards .....: 6.4.6 Control of fire spread in PS3 circuit N/A 6.4.7 Separation of combustible materials from a PIS N/A 6.4.7.1 N/A General ...... 6.4.7.2 Separation by distance N/A 6.4.7.3 Separation by a fire barrier N/A 6.4.8 Fire enclosures and fire barriers N/A 6.4.8.1 Fire enclosure and fire barrier material properties (See appended table 4.1.2) N/A 6.4.8.2.1 Requirements for a fire barrier N/A 6.4.8.2.2 Requirements for a fire enclosure N/A 6.4.8.3 Constructional requirements for a fire enclosure N/A and a fire barrier 6.4.8.3.1 Fire enclosure and fire barrier openings N/A 6.4.8.3.2 Fire barrier dimensions N/A 6.4.8.3.3 Top Openings in Fire Enclosure: dimensions N/A Needle Flame test N/A 6.4.8.3.4 Bottom Openings in Fire Enclosure, condition met N/A a), b) and/or c) dimensions (mm) .....: Flammability tests for the bottom of a fire N/A enclosure .....: 6.4.8.3.5 Integrity of the fire enclosure, condition met: a), N/A b) or c) .....: 6.4.8.4 Separation of PIS from fire enclosure and fire N/A barrier distance (mm) or flammability rating ......: N/A 6.5 Internal and external wiring 6.5.1 Requirements N/A 6.5.2 Cross-sectional area (mm<sup>2</sup>) .....: 6.5.3 Requirements for interconnection to building (See Annex Q.) N/A wiring .....:

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Clause	Requirement + Test	Result - Remark	Verdict
6.6	Safeguards against fire due to connection to additional equipment	×°	PO
	External port limited to PS2 or complies with Clause Q.1	PS1 circuit	Р
	Č.		

	7	INJURY CAUSED BY HAZARDOUS SUBSTANC	CES	N/A
	7.2	Reduction of exposure to hazardous substances	K X	N/A
S	7.3	Ozone exposure	2	N/A
	7.4	Use of personal safeguards (PPE)		N/A
	~	Personal safeguards and instructions	.6	_
	7.5	Use of instructional safeguards and instructions	× 1	N/A
		Instructional safeguard (ISO 7010)	4	
	7.6	Batteries	(See Annex M)	N/A

8	MECHANICALLY-CAUSED INJURY		Р
8.1	General	× ×	Р
8.2	Mechanical energy source classifications	MS1(0.062kg)	Р
8.3	Safeguards against mechanical energy sources	X.	N/A
8.4	Safeguards against parts with sharp edges and corners		N/A
8.4.1	Safeguards	Χ.	N/A
8.5	Safeguards against moving parts	~	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
8.5.2	Instructional Safeguard :		_
8.5.4	Special categories of equipment comprising moving parts	di ti	N/A
8.5.4.1	Large data storage equipment	- An	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	ć.	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	(See Annex F.4 and Annex K)	N/A
8.5.4.2.2	Instructional safeguards against moving parts	4	N/A
	Instructional Safeguard	,O`	
8.5.4.2.3	Disconnection from the supply	a x	N/A
8.5.4.2.4	Probe type and force (N)	×	N/A
8.5.5	High Pressure Lamps	4	N/A
8.5.5.1	Energy Source Classification	.01	N/A

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IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict 8.5.5.2 High Pressure Lamp Explosion Test..... (See appended table 8.5.5.2) N/A 8.6 N/A Stability 8.6.1 Product classification N/A Instructional Safeguard Mentioned in user manual 8.6.2 N/A Static stability 8.6.2.2 Static stability test N/A Applied Force ..... 8.6.2.3 Downward Force Test N/A 8.6.3 Relocation stability test N/A Unit configuration during 10° tilt .....: 8.6.4 Glass slide test N/A 8.6.5 Horizontal force test (Applied Force).....: N/A Position of feet or movable parts .....: 8.7 Equipment mounted to wall or ceiling N/A 8.7.1 Mounting Means (Length of screws (mm) and N/A mounting surface) ..... 8.7.2 Direction and applied force .....: N/A 8.8 N/A Handles strength 8.8.1 Classification N/A 8.8.2 N/A Applied Force ..... 8.9 Wheels or casters attachment requirements N/A 8.9.1 Classification N/A 8.9.2 Applied force .....: 8.10 Carts, stands and similar carriers N/A 8.10.1 General N/A 8.10.2 Marking and instructions N/A Instructional Safeguard ..... 8.10.3 Cart, stand or carrier loading test and compliance N/A Applied force .....: 8.10.4 Cart, stand or carrier impact test N/A 8.10.5 N/A Mechanical stability Applied horizontal force (N) .....: 8.10.6 Thermoplastic temperature stability (°C)..... N/A 8.11 Mounting means for rack mounted equipment N/A N/A 8.11.1 General

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深圳市虹彩栓测技术有限公司 Shenzhen Hongcai Testing Technology Co., Ltd 广东省深圳市龙岗区龙岗街道新生社区莱茵路30-9号 1 层、2 层、3 层(天基工业园 B 栋厂房) Building B, Tianji Industrial Park, Floor 1&2&83 No.30-9 Laiyin Road, Xinsheng Community, Longang Street, Longgang District, Shenzhen, Guangdong, China Web: www.hct-test.com Email: hongcai@hct-test.com



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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
8.11.2	Product Classification	-XO	N/A	
8.11.3	Mechanical strength test, variable N	4	N/A	
8.11.4	Mechanical strength test 250N, including end stops	, C	N/A	
8.12	Telescoping or rod antennas	(See Annex T)	N/A	
	Button/Ball diameter (mm)	~	—	
	,0 <sup>1</sup>	4		

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications	TS1	Р
9.3	Safeguard against thermal energy sources		N/A
9.4	Requirements for safeguards	-	N/A
9.4.1	Equipment safeguard		N/A
9.4.2	Instructional safeguard:		N/A
			•

10	RADIATION		N/A
10.2	Radiation energy source classification	, C`	N/A
10.2.1	General classification	A N	N/A
10.3	Protection against laser radiation	2	N/A
	Laser radiation that exists equipment:		
	Normal, abnormal, single-fault	(See attached laser test report)	N/A
1	Instructional safeguard:	N.	
	Tool:	~	
10.4	Protection against visible, infrared, and UV radiation	120	N/A
10.4.1	General		🔨 N/A
10.4.1.a)	RS3 for Ordinary and instructed persons:		✓ N/A
10.4.1.b)	RS3 accessible to a skilled person:	G	N/A
40	Personal safeguard (PPE) instructional safeguard	2	
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1.:	C.	N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:	(See appended table B.3 & B.4)	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque:	á.	N/A
10.4.1.f)	UV attenuation:	X	N/A
10.4.1.g)	Materials resistant to degradation UV	<sup>v</sup>	N/A
10.4.1.h)	Enclosure containment of optical radiation:		N/A
10.4.1.i)	Exempt Group under normal operating conditions	JC <sup>A</sup>	N/A

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IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict 10.4.2 N/A Instructional safeguard ..... 10.5 N/A Protection against x-radiation 10.5.1 X- radiation energy source that exists equipment: (See appended table B.3 & B.4) N/A Normal, abnormal, single fault conditions N/A Equipment safeguards.....: N/A N/A Instructional safeguard for skilled person.....:: 10.5.3 Most unfavourable supply voltage to give maximum radiation ..... Abnormal and single-fault condition .....: N/A (See appended table B.3 & B.4) Maximum radiation (pA/kg).....: N/A 10.6 Protection against acoustic energy sources N/A 10.6.1 N/A General 10.6.2 Classification N/A Acoustic output, dB(A).....: N/A Output voltage, unweighted r.m.s.....: N/A 10.6.4 Protection of persons N/A Instructional safeguards ..... N/A Equipment safeguard prevent ordinary person to RS2.....: Means to actively inform user of increase sound pressure ......: Equipment safeguard prevent ordinary person to RS2.....: 10.6.5 Requirements for listening devices (headphones, N/A earphones, etc.) 10.6.5.1 Corded passive listening devices with analog N/A input Input voltage with 94 dB(A)  $L_{Aeq}$  acoustic pressure output.....: 10.6.5.2 Corded listening devices with digital input N/A Maximum dB(A).....: 10.6.5.3 Cordless listening device N/A Maximum dB(A).....:

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3		NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS			
$\sim$	B.2	Normal Operating Conditions	÷	Р	
	B.2.1	General requirements	(See Test Item Particulars and appended test tables)	Р	

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IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict (See Annex E) Audio Amplifiers and equipment with audio N/A amplifiers ..... Ρ B.2.3 Supply voltage and tolerances ±10 % B.2.5 Р Input test.....: (See appended table B.2.5) B.3 Simulated abnormal operating conditions N/A B.3.1 General requirements.....: (See appended table B.3) N/A B.3.2 Covering of ventilation openings (See appended table B.3) N/A B.3.3 D.C. mains polarity test N/A B.3.4 Setting of voltage selector .....: N/A B.3.5 Maximum load at output terminals .....: (See appended table B.3) N/A B.3.6 Reverse battery polarity N/A B.3.7 Abnormal operating conditions as specified in N/A (See appended table B.3) Clause E.2. Safeguards functional during and after abnormal B.3.8 N/A operating conditions Р B.4 Simulated single fault conditions B.4.2 Temperature controlling device open or short-(See appended table B.4) N/A circuited ..... B.4.3 Motor tests N/A B.4.3.1 N/A Motor blocked or rotor locked increasing the (See Clause G.5) internal ambient temperature .....: B.4.4 N/A Short circuit of functional insulation B.4.4.1 Short circuit of clearances for functional insulation N/A B.4.4.2 Short circuit of creepage distances for functional N/A insulation B.4.4.3 Short circuit of functional insulation on coated N/A printed boards B.4.5 Short circuit and interruption of electrodes in Р tubes and semiconductors B.4.6 Short circuit or disconnect of passive components Р B.4.7 Continuous operation of components N/A B.4.8 Class 1 and Class 2 energy sources within limits Р during and after single fault conditions B.4.9 Battery charging under single fault conditions ... : (See Annex M) N/A С **UV RADIATION** N/A C.1 Protection of materials in equipment from UV N/A radiation C.1.2 Requirements N/A N/A C.1.3 Test method

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IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict C.2 UV light conditioning test N/A C.2.1 N/A Test apparatus C.2.2 Mounting of test samples N/A C.2.3 N/A Carbon-arc light-exposure apparatus C.2.4 Xenon-arc light exposure apparatus N/A D N/A **TEST GENERATORS** D.1 Impulse test generators N/A D.2 Antenna interface test generator N/A D.3 N/A Electronic pulse generator Е TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS N/A E.1 Audio amplifier normal operating conditions N/A Audio signal voltage (V) ..... Rated load impedance  $(\Omega)$  .....: E.2 Audio amplifier abnormal operating conditions (See appended table B.3) N/A F EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS Р F.1 General requirements English Ρ Instructions – Language .....: F.2 Р Letter symbols and graphical symbols F.2.1 Letter symbols according to IEC60027-1 Р F.2.2 Р Graphic symbols IEC, ISO or manufacturer specific F.3 Р Equipment markings F.3.1 Р Equipment marking locations F.3.2 Equipment identification markings Р F.3.2.1 Manufacturer identification .....: F.3.2.2 Model identification F.3.3 Equipment rating markings Ρ F.3.3.1 Р Equipment with direct connection to mains F.3.3.2 Equipment without direct connection to mains N/A F.3.3.3 Nature of supply voltage ..... See the marking plate F.3.3.4 Rated voltage ..... See the marking plate F.3.3.4 See the marking plate Rated frequency ..... F.3.3.6 Rated current or rated power .....: See the marking plate F.3.3.7 Equipment with multiple supply connections N/A F.3.4 N/A Voltage setting device

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IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict F.3.5 Ρ Terminals and operating devices F.3.5.1 N/A Mains appliance outlet and socket-outlet markings..... F.3.5.2 N/A Switch position identification marking ...... F.3.5.3 N/A Replacement fuse identification and rating markings.....: F.3.5.4 Replacement battery identification marking ...... : N/A F.3.5.5 Terminal marking location Ρ F.3.6 Equipment markings related to equipment N/A classification F.3.6.1 N/A Class I Equipment F.3.6.1.1 Protective earthing conductor terminal N/A F.3.6.1.2 Neutral conductor terminal N/A F.3.6.1.3 Protective bonding conductor terminals N/A F.3.6.2 Class II equipment (IEC60417-5172) N/A F.3.6.2.1 N/A Class II equipment with or without functional earth F.3.6.2.2 Class II equipment with functional earth terminal N/A marking F.3.7 IPX0 Equipment IP rating marking .....: F.3.8 External power supply output marking N/A F.3.9 Ρ Durability, legibility and permanence of marking F.3.10 Test for permanence of markings Р F.4 Р Instructions a) Equipment for use in locations where children N/A not likely to be present - marking Ρ b) Instructions given for installation or initial use c) Equipment intended to be fastened in place N/A d) Equipment intended for use only in restricted N/A access area e) Audio equipment terminals classified as ES3 N/A and other equipment with terminals marked in accordance F.3.6.1 f) Protective earthing employed as safeguard N/A g) Protective earthing conductor current exceeding N/A ES 2 limits h) Symbols used on equipment Ρ i) Permanently connected equipment not provided N/A with all-pole mains switch

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	IEC 62368-1		3
Clause	Requirement + Test	Result - Remark	Ver
20	j) Replaceable components or modules providing safeguard function	40	N
F.5	Instructional safeguards		F
1	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	Simply use method	F
G	COMPONENTS		F
G.1	Switches	d'a la companya de la	N
G.1.1	General requirements		N
G.1.2	Ratings, endurance, spacing, maximum load	~ ~ ~	N N
G.2	Relays	, O'	N
G.2.1	General requirements	~	N
G.2.2	Overload test	~	N
G.2.3	Relay controlling connectors supply power	×,	N
G.2.4	Mains relay, modified as stated in G.2		N
G.3	Protection Devices	G	N
G.3.1	Thermal cut-offs	X Y	N
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	***	N
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)		N
G.3.1.2 🔷	Thermal cut-off connections maintained and secure	×	N
G.3.2	Thermal links	Ĵ.	N
G.3.2.1a)	Thermal links separately tested with IEC 60691		N
G.3.2.1b)	Thermal links tested as part of the equipment	2	<u> </u>
	Aging hours (H):	, s	_
~	Single Fault Condition:	- G	_
Y.	Test Voltage (V) and Insulation Resistance ( $\Omega$ ). :	<pre>X</pre>	_
G.3.3	PTC Thermistors	~	N
G.3.4	Overcurrent protection devices	JC .	N
G.3.5	Safeguards components not mentioned in G.3.1 to	o G.3.5	N
G.3.5.1	Non-resettable devices suitably rated and marking provided	, cr	N
G.3.5.2	Single faults conditions:	(See appended Table B.4)	N
G.4	Connectors	H	N.
G.4.1	Spacings	4	N
G.4.2	Mains connector configuration	6	N

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Clause	Requirement + Test	Result - Remark	Verdict
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	- AC	N/A
G.5	Wound Components	à	N/A
G.5.1	Wire insulation in wound components	(See Annex J)	N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	á.	N/A
G.5.1.2 b)	Construction subject to routine testing	x X	N/A
G.5.2	Endurance test on wound components	5	N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
SC	Time (s):	1	
	Temperature (°C):		
G.5.2.3	Wound Components supplied by mains	.6`	N/A
G.5.3	Transformers	× .	N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558- 1/-2, and/or IEC62368-1)	Ġ.	N/A
7	Position:	X X	_
<u>O</u>	Method of protection:	20	
G.5.3.2	Insulation		N/A
	Protection from displacement of windings	.Ó	_
G.5.3.3	Overload test	(See appended table B.3)	N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding Temperatures testing in the unit	70.	N/A
G.5.3.3.3	Winding Temperatures - Alternative test method		N/A
G.5.4	Motors		N/A
G.5.4.1	General requirements	× *	N/A
G	Position:		
G.5.4.2	Test conditions	X	N/A
G.5.4.3	Running overload test	~	N/A
G.5.4.4	Locked-rotor overload test	40	N/A
	Test duration (days):		
G.5.4.5	Running overload test for d.c. motors in secondary circuits	× *	N/A
G.5.4.5.2	Tested in the unit	<u>G</u>	N/A
/	Electric strength test (V):	Ĉ.	_
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)	á.	N/A

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IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict Electric strength test (V).....: Locked-rotor overload test for d.c. motors in G.5.4.6 N/A secondary circuits G.5.4.6.2 Tested in the unit N/A Maximum Temperature ..... N/A Electric strength test (V) .....: N/A G.5.4.6.3 Tested on the bench - Alternative test method; N/A test time (h) ..... Electric strength test (V).....: N/A G.5.4.7 N/A Motors with capacitors 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 Solvent-based enamel wiring insulation N/A G.7 Mains supply cords N/A G.7.1 General requirements N/A Туре..... (See appended table 4.1.2) Rated current (A)..... Cross-sectional area (mm<sup>2</sup>), (AWG) ...... : (See appended table 4.1.2) G.7.2 Compliance and test method N/A G.7.3 Cord anchorages and strain relief for non-N/A detachable power supply cords N/A G.7.3.2 Cord strain relief G.7.3.2.1 Requirements N/A Strain relief test force (N) .....: G.7.3.2.2 Strain relief mechanism failure N/A G.7.3.2.3 Cord sheath or jacket position, distance (mm)....: G.7.3.2.4 Strain relief comprised of polymeric material N/A G.7.4 Cord Entry .....: (See appended table 5.4.9) N/A G.7.5 Non-detachable cord bend protection N/A G.7.5.1 Requirements N/A G.7.5.2 Mass (g) ..... Diameter (m) ..... Temperature (°C) .....:

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IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict G.7.6 N/A Supply wiring space G.7.6.2 Stranded wire N/A G.7.6.2.1 Test with 8 mm strand N/A G.8 N/A Varistors G.8.1 General requirements N/A G.8.2 N/A Safeguard against shock G.8.3 Safeguard against fire N/A G.8.3.2 Varistor overload test ..... (See appended table B.3) N/A G.8.3.3 Temporary overvoltage ..... (See appended table B.3) N/A G.9 Integrated Circuit (IC) Current Limiters N/A G.9.1 a) Manufacturer defines limit at max. 5A. N/A G.9.1 b) Limiters do not have manual operator or reset N/A G.9.1 c) Supply source does not exceed 250 VA .....: G.9.1 d) IC limiter output current (max. 5A) .....: G.9.1 e) Manufacturers' defined drift .....: G.9.2 Test Program 1 N/A G.9.3 Test Program 2 N/A G.9.4 **Test Program 3** N/A G.10 N/A Resistors G.10.1 General requirements N/A G.10.2 N/A Resistor test G.10.3 Test for resistors serving as safeguards between the mains and an external circuit consisting of a N/A coaxial cable G.10.3.1 General requirements N/A G.10.3.2 Voltage surge test N/A G.10.3.3 Impulse test N/A G.11 Capacitor and RC units N/A G.11.1 N/A General requirements Conditioning of capacitors and RC units G.11.2 N/A G.11.3 N/A Rules for selecting capacitors G.12 Optocouplers N/A Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option N/A and test results).....: Type test voltage Vini

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IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict Routine test voltage, Vini,b .....: G.13 Printed boards P G.13.1 Ρ General requirements G.13.2 Uncoated printed boards Ρ G.13.3 Coated printed boards N/A G.13.4 Insulation between conductors on the same inner N/A surface Compliance with cemented joint requirements (Specify construction).....: G.13.5 Insulation between conductors on different N/A surfaces Distance through insulation ..... (See appended table 5.4.4.5) N/A Number of insulation layers (pcs) .....: G.13.6 Tests on coated printed boards N/A N/A G.13.6.1 Sample preparation and preliminary inspection G.13.6.2a) Thermal conditioning N/A G.13.6.2b) Electric strength test N/A G.13.6.2c) Abrasion resistance test N/A G.14 Coating on components terminals N/A G.14.1 N/A Requirements ..... (See G.13) G.15 N/A Liquid filled components G.15.1 N/A General requirements G.15.2 Requirements N/A G.15.3 N/A Compliance and test methods G.15.3.1 Hydrostatic pressure test N/A G.15.3.2 Creep resistance test N/A G.15.3.3 Tubing and fittings compatibility test N/A G.15.3.4 Vibration test N/A G.15.3.5 Thermal cycling test N/A G.15.3.6 Force test N/A G.15.4 Compliance N/A G.16 IC including capacitor discharge function (ICX) N/A Humidity treatment in accordance with sc5.4.8 a) N/A 120 hours b) Impulse test using circuit 2 with Uc = to transient N/A voltage .....: C1) Application of ac voltage at 110% of rated voltage N/A for 2.5 minutes

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			····	
Clause	Requirement + Test	Result - Remark	Verdic	
C2)	Test voltage	1×0		
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	JCT .	N/A	
D2)	Capacitance:		_	
D3)	Resistance:	á.		
Н	CRITERIA FOR TELEPHONE RINGING SIGNAL	_S	N/A	
H.1	General	9	N/A	
H.2	Method A		N/A	
H.3 🔍	Method B		N/A	
H.3.1	Ringing signal	1	N/A	
H.3.1.1	Frequency (Hz)			
H.3.1.2	Frequency (Hz)	.0		
H.3.1.3	Cadence; time (s) and voltage (V)			
H.3.1.4	Single fault current (mA):			
H.3.2	Tripping device and monitoring voltage		N/A	
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	×0	N/A	
H.3.2.2	Tripping device		N/A	
H.3.2.3	Monitoring voltage (V)		_	
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		N/A	
	General requirements	(See separate test report)	N/A	
К	SAFETY INTERLOCKS		N/A	
K.1	General requirements		N/A	
K.2	Components of safety interlock safeguard mechanism	(See Annex G)	N/A	
K.3	Inadvertent change of operating mode		N/A	
K.4	Interlock safeguard override		N/A	
K.5	Fail-safe		N/A	
	Compliance	(See appended table B.4)	N/A	
K.6	Mechanically operated safety interlocks		N/A	
K.6.1	Endurance requirement		N/A	
K.6.2	Compliance and Test method		N/A	
K.7	Interlock circuit isolation		N/A	
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location)		N/A	
K.7.2	Overload test, Current (A)		N/A	

### IEC62368\_1B

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Clause	Requirement + Test	Result - Remark	Verdic	
K.7.3	Endurance test		N/A	
K.7.4	Electric strength test	(See appended table 5.4.11)	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	
М	EQUIPMENT CONTAINING BATTERIES AND TH	HEIR PROTECTION CIRCUITS	N/A	
M.1	General requirements		N/A	
M.2	Safety of batteries and their cells		N/A	
M.2.1	Requirements		N/A	
M.2.2	Compliance and test method (identify method):		N/A	
M.3	Protection circuits	No such circuit. General alkaline batteries cannot be recharged in remote control.	N/A	
M.3.1	Requirements		N/A	
M.3.2	Tests		N/A	
	- Overcharging of a rechargeable battery		N/A	
	- Unintentional charging of a non-rechargeable battery		N/A	
	- Reverse charging of a rechargeable battery		N/A	
	- Excessive discharging rate for any battery		N/A	
M.3.3	Compliance:	(See appended Tables and Annex M and M.4)	N/A	
M.4	Additional safeguards for equipment containing secondary lithium battery		N/A	
M.4.1	General		N/A	
M.4.2	Charging safeguards		N/A	
M.4.2.1	Charging operating limits		N/A	
M.4.2.2a)	Charging voltage, current and temperature:	(See Table M.4)	_	
M.4.2.2 b)	Single faults in charging circuitry	(See Annex B.4)	—	
M.4.3	Fire Enclosure		N/A	

### IEC62368\_1B

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Clause	Requirement + Test	Result - Remark	Verdic
M.4.4	Endurance of equipment containing a secondary lithium battery	. G	N/A
M.4.4.2	Preparation		N/A
M.4.4.3	Drop and charge/discharge function tests		N/A
	Drop		N/A
	Charge		N/A
	Discharge		N/A
M.4.4.4	Charge-discharge cycle test		N/A
M.4.4.5	Result of charge-discharge cycle test		N/A
M.5	Risk of burn due to short circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A
M.6	Prevention of short circuits and protection from other effects of electric current		N/A
M.6.1	Short circuits		N/A
M.6.1.1	General requirements		N/A
M.6.1.2	Test method to simulate an internal fault		N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method):		N/A
M.6.2	Leakage current (mA):		N/A
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m <sup>3</sup> /s):		
M.8.2.3	Correction factors:		
M.8.2.4	Calculation of distance <i>d</i> (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

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	IEC 62368-1			
Claus	e Requirement + Test	Result - Remark	Verdict	
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)	.6	N/A	
Ν	ELECTROCHEMICAL POTENTIALS		N/A	
	Metal(s) used:	Pollution degree considered		
0	MEASUREMENT OF CREEPAGE DISTANCES A	AND CLEARANCES	N/A	
	Figures O.1 to O.20 of this Annex applied:	Considered		
P	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	N/A	
P.1	General requirements		N/A	
P.2.2	Safeguards against entry of foreign object		N/A	
	Location and Dimensions (mm):			
P.2.3	Safeguard against the consequences of entry of foreign object		N/A	
P.2.3.1	Safeguards against the entry of a foreign object		N/A	
	Openings in transportable equipment		N/A	
	Transportable equipment with metalized plastic parts		N/A	
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):		N/A	
P.3	Safeguards against spillage of internal liquids		N/A	
P.3.1	General requirements		N/A	
P.3.2	Determination of spillage consequences		N/A	
P.3.3	Spillage safeguards		N/A	
P.3.4	Safeguards effectiveness		N/A	
P.4	Metallized coatings and adhesive securing parts		N/A	
P.4.2 a)	Conditioning testing		N/A	
	Tc (°C):			
	Tr (°C):			
	Ta (°C):			
P.4.2 b)	Abrasion testing:	(See G.13.6.2)	N/A	
P.4.2 c)	Mechanical strength testing:	(See Annex T)	N/A	
Q	CIRCUITS INTENDED FOR INTERCONNECTION	N WITH BUILDING WIRING	Р	
Q.1	Limited power sources		Р	
Q.1.1 a	Inherently limited output		Р	
Q.1.1 b	Impedance limited output		N/A	

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Clause	Bequirement + Test	Result - Remark	Vero
Clause	Requirement + Test	Result - Remark	vert
	- Regulating network limited output under normal operating and simulated single fault condition		N//
Q.1.1 c)	Overcurrent protective device limited output		N//
Q.1.1 d)	IC current limiter complying with G.9		N/.
Q.1.2	Compliance and test method		Р
Q.2	Test for external circuits – paired conductor cable		N/
	Maximum output current (A):		_
	Current limiting method:		
R	LIMITED SHORT CIRCUIT TEST		N/.
R.1	General requirements		N/.
R.2	Determination of the overcurrent protective device and circuit		N/.
R.3	Test method Supply voltage (V) and short-circuit current (A)).		N/
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/.
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/
	Samples, material		
	Wall thickness (mm)		
	Conditioning (°C):		
	Test flame according to IEC 60695-11-5 with conditions as set out		N/
	- Material not consumed completely		N/.
	- Material extinguishes within 30s		N/.
	- No burning of layer or wrapping tissue		N/.
S.2	Flammability test for fire enclosure and fire barrier integrity		N/
	Samples, material:		
	Wall thickness (mm):		
	Conditioning (°C)		
	Test flame according to IEC 60695-11-5 with conditions as set out		N/
	Test specimen does not show any additional hole		N/.
S.3	Flammability test for the bottom of a fire enclosure		N/.
	Samples, material		
	Wall thickness (mm):		_

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Clause	Requirement + Test	Result - Remark	Verdict		
~	Cheesecloth did not ignite	.61	N/A		
S.4	Flammability classification of materials		N/A		
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A		
	Samples, material:				
	Wall thickness (mm):				
3	Conditioning (test condition), (°C):				
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A		
	After every test specimen was not consumed completely		N/A		
	After fifth flame application, flame extinguished within 1 min		N/A		
Т	MECHANICAL STRENGTH TESTS		Р		
T.1	General requirements		Р		
T.2	Steady force test, 10 N	(See appended table T.2)	N/A		
Т.3	Steady force test, 30 N	(See appended table T3)	N/A		
T.4	.4 Steady force test, 100 N: (See appended table T4)		N/A		
T.5	Steady force test, 250 N	(See appended table T5)	N/A		
Т.6	Enclosure impact test	(See appended table T6)	N/A		
	Fall test		N/A		
	Swing test		N/A		
T.7	Drop test:	(See appended table T7)	Р		
T.8	Stress relief test:	(See appended table T8)	N/A		
T.9	Impact Test (glass)		N/A		
T.9.1	General requirements		N/A		
T.9.2	Impact test and compliance		N/A		
	Impact energy (J):				
	Height (m):				
T.10	Glass fragmentation test:	(See sub-clause 4.4.4.9)	N/A		
T.11	Test for telescoping or rod antennas		N/A		
	Torque value (Nm):				
U	MECHANICAL STRENGTH OF CATHODE RAY T AGAINST THE EFECTS OF IMPLOSION	UBES (CRT) AND PROTECTION	N/A		
U.1	General requirements		N/A		
			I		

# IEC62368\_1B

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IEC 62368-1						
Clause	lause Requirement + Test Result - Remark					
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A			
U.3	Protective Screen (See Annex T)					
V DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)						
V.1	Accessible parts of equipment		N/A			
V.2	Accessible part criterion		N/A			

### IEC62368\_1B

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# Attachment No.1

	IEC 62368-1			í.
Clause	Requirement + Test	Result - Remark	Y.	Verdict

4.1.2	TABLE: List of critical components				PO	
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1</sup>	
PCB	Interchangeable	Interchangeable	V-0, 130℃	UL 94	UL:	
Metal enclosure	Interchangeable	Interchangeable	Metal, min. 0.6mm thickness	EN62368-1	Tested with appliance	
AC adaptor	SHENZHEN CENWELL TECHNOLOGY CO LTD	CW0501000EU	Input:100-240V~, 50/60Hz, 0.3A Output: DC5.0V 1.0A	EN62368- 1:2014/A11:201 7	CE: 20SLCS1200 7 2901	
Supplementary in	formation:	K.	•	.c`		

<sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039.

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Clause	Requirement + Test	Result - Remark	Verdict		

4.8.4, 4.8.5	TABLE: Lithium coin/button cell batteries mechanical tests				
(The follo	wing mechan	ical tests are conducted in the	e sequence noted.)	·	
4.8.4.2	TABLE: St	ress Relief test	4		
	Part	Material	Oven Temperature (°C)	Comments	
	N.				
4.8.4.3	TABLE: Ba	attery replacement test	-Ho		
Battery pa	art no		4	_	
Battery In	stallation/with	drawal	Battery Installation/Removal Cycle	Comments	
N.		~	× 1		
			2	X	
			3		
4.8.4.4 TABLE: Drop test		()			
Impact Area Drop Distance		Drop Distance	Drop No.	Observations	
4		<u> </u>	1		
<sup>()</sup>		~	2	, é	
		120	3	1 h	
4.8.4.5	TABLE: Im	pact	120	_	
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments	
	2		.G		
	1		A A		
			10	~	
4.8.4.6	TABLE: Cr	rush test			
Test	position	Surface tested	Crushing Force (N)	Duration force applied (s)	
N.		G			
	× ×				
Suppleme	ntary informati	on:	1	•	

4.8.5	TABLE: Lithiu	TABLE: Lithium coin/button cell batteries mechanical test result				
Test	position	Surface tested	Force (N)	Duration force applied (s)		
		~	~	â		
	1	10	~ ~	The second secon		
Suppleme	ntary information:	·	J.			

# IEC62368\_1B

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	IEC 6236	58-1	
Clause	Requirement + Test	Result - Remark	Verdict
6		10	1

	5.2	TABLE:	TABLE: Classification of electrical energy sources					Р
	5.2.2.2 -	- Steady State	Voltage and Cur	rent conditions			L. L	
		Cumple	Location (e.g.		I	Parameters		
	No.	Supply Voltage	circuit designation)	Test conditions	U (Vrms or Vpk)	l (Apk or Arms)	Hz	ES Class
G	÷			Normal	5V		DC	1
X~	1	DC5V	DC5V	Abnormal (Overload)		<u> </u>	- ~	ES1
		,		Single fault –SC		) (C		
	2			Normal	_ ~			
		á		Abnormal (Overload)				~
		1 A		Single fault –SC	<u> </u>	<u>-</u>		1

5.2.2.3 -	Capacitance	Limits					
	Supply	Location (e.g.	Parameters				
No.	Voltage	circuit designation)	Test conditions	Capacitance	, μF	Upk (V)	ES Class
1	~	-	Normal		~		1
	X		Abnormal(S-C)		10		
	7	1	Single fault –			×.	
5.2.2.4 -	Single Pulse	s					
	Supply	Location (e.g.			Parameters		
No.	IU. Voltage Circuit		Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Clas
		2	Normal		~	L.	
			Abnormal	3	0		
			Single fault – SC/OC			<	-14
5.2.2.5 -	Repetitive Pu	ulses					-
	Supply	Location (e.g.		Parameters			
No.	Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class
2		× v	Normal	~		~	
			Abnormal	20			~
			Single fault –		,		NO?

SC/OC

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<b>IF</b> (.)	. n/		n- 1

	IEC 62	368-1	
Clause	Requirement + Test	Result - Remark	Verdict
.6			4
Test Conditions:			

Normal –

Abnormal -

Supplementary information: SC=Short Circuit, OC=Short Circuit

5.4.1.4,	TABLE: Tempera	ture me	asurements	6			Р
9.3, B.1.5, B.2.6							
Supply voltage (V	)	9	0V/60Hz	264V/50Hz			—
-	ure during test <i>T</i> <sub>amb</sub>			-	× -	- ×	
Maximum measur part/at:	ed temperature T o	ıf		<i>T</i> (°C)			Allowed T <sub>max</sub> (°C)
J3	5		76.5	76.0	×-0		85
J2			72.7	72.3		,	85
J1	é.		72.2	71.7		5	85
J4	The second secon		72.8	72.2		<u>~</u>	85
PCB near U1		~	78.8	78.3			130
Ambient		201	70.0	70.0	Z		2
Accessible Areas	(See below)				20		
Metal shell(Top)			26.0	25.5			51
Metal shell(Botton	ו)		25.9	25.4		6	51
Adapter(Top)	20		25.7	26.1	``	-	51
Adapter(Bottom)	· · · · · · · · · · · · · · · · · · ·		27.0	28.5			51
Ambient	Ĵ.	6	25.0	25.0			
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
		2	2		~		4

Supplementary information:

Note 1: Tma should be considered as directed by appliable requirement Note 2: Tma is not included in assessment of Touch Temperatures (Clause 9)

#### IEC62368\_1B

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	IEC 623	868-1		
Clause	Requirement + Test	~	Verdict	
5.4.1.10.2	TABLE: Vicat softening temperature of the	rmoplastics		N/A
Penetration	(mm):	<u> </u>		
Object/ Part	No./Material	Manufacturer/t rademark	T softening (°C)	)
	x K		~	
		1	Y.	
supplemen	tary information:	63		

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics					
Allowed impression diameter (mm)		≤2mm		_		
Object/Part	No./Material	Manufacturer/trademark	Test temperature (°C)	Impression dia	meter (mm)	
	~	A.		5	K	
	N.		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			
		K S	1			
Supplement	ary information:			. v.		

0	~		N	~			
5.4.2.2, TABLE: Minimum C 5.4.2.4 and 5.4.3	learance	s/Creepa	ge distance				N/A
Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) <sup>1</sup>	Required cl (mm)	cl (mm) <sup>2</sup>	Required <sup>3</sup> cr (mm)	cr (mm)
H.			6		X		
	<		h				ζ.
, X	1			~		Y	

Supplementary information:

Note 1: Only for frequency above 30 kHz Note 2: See table 5.4.2.4 if this is based on electric strength test

Note 3: Provide Material Group

Note 4: Clearance is determined according to Table 15 of Clause 5.4.2.3.4

5.4.2.3	TABLE: Minimum Cle	TABLE: Minimum Clearances distances using required withstand voltage					
5	Overvoltage Category	/ (OV):	N. C.				
	Pollution Degree:	de la companya de la	<i>V</i>		щG`		
Clearance distanced between:		Required withstand voltage	Required cl (mm)	Measu	red cl (mm)		

#### IEC62368\_1B

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IEC 62368-1							
Clause	Requirement + Test	Result - Remark	Verdict				
.6			4				
	C.	×.					
~	47	Å	1.				
́о,	κ.	The second secon					
Our main and a main to mail in f	investiges. Even arise and of all atria atragent						

Supplementary information: Experiment of electric strength based on Mains transient voltages.

5.4.2.4	TABLE: Clearances based on electric strength test					
Test voltage	e applied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakd Yes /	-	
~	H.		~	X	2	
Supplement	tary information:		X			

5.4.4.2,	TABLE: Dis	Distance through insulation measurements				
5.4.4.5 c) 5.4.4.9	40					
Distance thr insulation di		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
~		0		ò.		
2		~		~		â
Supplement	ary informatior				7	L.

5.4.9 🔨	TABLE: Electric strength tests	G		N/A
Test voltage	e applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Basic/suppl	lementary:	.6`		
	Å	~		. G
Reinforced:	140		~	K
S			0	
Supplemen	tary information: Experiment of elect	tric strength based on Ma	ains transient voltages.	

5.5.2.2	TABLE: St	ored discharg	ge on capacito	ors	L.	N/A
Supply Vol	tage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification
jî -				40	1	6

#### IEC62368\_1B

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Clause	Requirement + Test	Result - Remark	Verdict
Supplementary in X-capacitors insta	Illed for testing:		40
□ICX: Notes: A. Test Location: Phase to Neutral:	Phase to Phase; Phase to Earth; and/or	Neutral to Earth	
B. Operating con	dition abbreviations: ting condition (e.g., normal operation, or		S.

5.6.6.2	TABLE: Resistanc	ABLE: Resistance of protective conductors and terminations					
/	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Res	sistance (Ω)	
	,O`		1	2			
Supplement	tany information:		~				

Supplementary information:

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive pa	art	N/A
Supply vo	Itage	1	
Location		Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)
	. G	1 0	
		2*	
		3	×,
		4	Y.
		5	
		6	. (
		8	L.
O	nton (Information)	.0	

### Supplementary Information:

Notes:

[1] Supply voltage is the anticipated maximum Touch Voltage

[2] Earthed neutral conductor [Voltage differences less than 1% or more]

[3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3

[4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.

[5] (\*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.

#### IEC62368\_1B

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		4	IEC 62368-1		.o`		
Clause	Re	equirement + Test	2	Result - Remark	Verdict		
6.2.2	Table: Electrical	power sources	(PS) measurements f	or classification	P		
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s* <sup>)</sup>	PS Classification		
X	X	Power (W) :	3	3			
А	DC5V	V <sub>A</sub> (V) :	5	5	PS1		
	, C	I <sub>A</sub> (A) :	0.6	0.6			
	×.	Power (W) :	0	0			
В	Audio signal output	V <sub>A</sub> (V) :	3.1	3.1	PS1		
	output	I <sub>A</sub> (A) :	0	0	- K		
	tary Information: ement taken only w	hen limits at 3 sec	conds exceed PS1 limit	ts			

6.2.3.1	Table: Determinat	Table: Determination of Potential Ignition Sources (Arcing PIS)						
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V <sub>p</sub> x I <sub>rms</sub> )	Arcing PIS? Yes / No			
O.		~	L'		~			
Suppleme	entary information:	.O`		1	2			

An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage ( $V_p$ ) and normal operating condition rms current ( $I_{rms}$ ) is greater than 15.

6.2.3.2	Table: Dete	ermination of Potentia	al Ignition Sour	ces (Resistive F	PIS)	N/A
Circuit Loc	cation (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No
1h		~		K		.ć

Supplementary Information:

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

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

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

#### IEC62368\_1B

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	IEC	62368-1	0.	
Clause	Requirement + Test	Result -	- Remark	Verdict
J.		20		4
8.5.5	TABLE: High Pressure Lamp			N/A
Description		Values	Energy Source C	lassificatior
Lamp type.	<u></u>	, it	—	
Manufactur	er:		—	
Cat no			—	
Pressure (c	cold) (MPa)	~	MS_	
Pressure (c	operating) (MPa)	X	MS_	~
Operating t	ime (minutes)		—	
Explosion r	nethod	d'	—	
Max particle	e length escaping enclosure (mm).:	-H	MS_	
Max particle	e length beyond 1 m (mm)		MS_	ζ.
Overall res	ult		.0	
Supplemen	tary information:	~	$\sim$	

IEC62368\_1B

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### IEC 62368-1

	IEC 62368-1						
Clause	Requirement + Test	Result - Remark	Verdict				
0	1		~ ~				

B.2.5		TABLE: Inp	ut test 🛛 🔍					P
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
90	50	0.0115		0.37	6 -			Normal working
90	60	0.0111	S	0.35				Audio signal output
100	50	0.0105		0.37	- 4		- ~	5-
100	60	0.0108	- ~	0.37	- X			~
240	50	0.0084	501	0.55		- 1		4
240	60	0.0081	-	0.55		50		
264	50	0.0076		0.63		<u>~</u>		
264	60	0.0074		0.62				
DC5V		0.04	0.6	0.2	3		~	

B.3	TABLE: Abnorn	nal operating	condition t	ests	6	<	X		N/A
6	perature (°C)				X				
Power source	e for EUT: Manu	facturer, mode	el/type, outp	ut rating	g :	See la	abel		
Component N	lo. Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.		ise nt, (A)	Temp. (°C)	Obse	rvation
Supplementa	ry information:				1		~		

Supplementary information:

Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

B.4	ABLE: Fault c	ondition tests	~		1	X			Р
Ambient temp	erature (°C)		<u>.</u>		.:	See	blow		_
Power source	for EUT: Manu	facturer, mode	l/type, outpi	ut rating	.:	See	label		
Component N	lo. Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fu curr (/	ent,	Temp. (°C)	Ot	oservation
Audio signa output	S-C	264	10min		-	-		circu shut imm No d	<sup>·</sup> short iit, Unit down ediately. lamaged azards.

IEC62368\_1B

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			IEC 6	2368-1			
Clause	R	equirement +	Test		à	Result - Remark	Verdict
C10 C6	S-C S-C	264 264	10min 10min				After short circuit, Unit shutdown immediately. No damaged no hazards. After short circuit, Unit shutdown immediately.
							No damaged no hazards. After short
R3	S-C	264	10min				circuit, Unit shutdown immediately. No damaged no hazards.

Supplementary information: S-C=Short Circuit, O-C=Open Circuit, O-L=Over Load. The Electric strength tests were successfully conducted after the completion of fault tests, no breakdown. \*) fuse current is more than 2.1 times fuse rating.

Annex M	TABLE: Batt	eries	~		X				N/A
			only when app	ropriato b	attony data	is not ave	vilabla		
					-				
Is it possible		•	reverse polar	ity position					
	Non-re	echargeable	e batteries		F	Rechargea	ble batteri	es	
	Disch	arging	Un-	Cha	rging	Disch	arging	Reverse	d charging
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. curren during norm condition	-	HO				4		170	
Max. curren during fault condition	t		yo'		Ŷ	),	~		The second secon
							-		
Test results:	N .			.6					Verdict
- Chemical I	eaks	~		1				~	
- Explosion	of the battery	0			~			2	
- Emission c	of flame or exp	ulsion of m	olten metal		,C`				1
- Electric str	ength tests of	equipment	after completi	on of tests	N.				.6
Supplement	ary informatio	n: 🔍	0			6	1		~~

### IEC62368\_1B

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		IEC	62368-1				
Clause		Requirement + Test		Result	: - Remark	0	Verdict
Annex M.4	Table: Ac batteries	lditional safeguards for equip	oment contain	ing seconda	ry lithium		N/A
	ry/Cell	Test conditions	N	leasurements	3	Obs	servation
N	lo.		U	I (A)	Temp (C)		
		Normal			,O`		
	~ ~	Abnormal	~		× .		
		Single fault –SC/OC	N.				2
		Normal		1		2	0
~		Abnormal		· 0.			
- K		Single fault – SC/OC		N.			. (
Supplement	ary Informa	ition:			, ch	1	×.

Battery identification	Charging at T <sub>lowest</sub> (°C)	Observation	Charging at T <sub>hiahest</sub> (°C)	Observation
4	X		~	K.
6			×.	~
Supplementary In	formation:	.G		, O

Condition			r			
	U <sub>oc</sub> (V)	Time (s)	I <sub>sc</sub> (	A)	S (\	/A)
Condition	$O_{oc}(V)$	Time (S)	Meas.	Limit	Meas.	Limit
Output(OC)	3.0	<u></u>		8.0	0	100
R3(SC)	0		0	8.0	0	100
	Output(OC) R3(SC)	R3(SC) 0	R3(SC) 0	Output(OC)         3.0             R3(SC)         0          0	Output(OC)         3.0           8.0           R3(SC)         0          0         8.0	Output(OC)         3.0           8.0         0           R3(SC)         0          0         8.0         0

T.2, T.3, T.4, T.5	TABL	E: Steady force	test	~	40		N/A
Part/Loc	ation	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Obser	vation
X		Y.		é.		1	
5			~	Y.			~
Supplemer	ntary info	rmation:	,0°		4		20

### IEC62368\_1B

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Page 47 of 63 Report No. WTH21H12135623Y IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict T.6, T.9 **TABLE: Impact tests** N/A Part/Location Material Thickness Vertical Observation (mm) distance (mm) Supplementary information:--

T.7	TABLE: Drop	tests		, c`	,	Р
Part/Locatio	on Mat	erial	Thickness (mm)	Drop Height (mm)	Observation	
Enclosure	Me	etal		750	No damage no hazai	rd
Supplementar	ry information	:	7		×	

T.8 TAB	LE: Stress relief t	est		2	5	N/A
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	ation
4	L.		ć	<	Ń	
Supplementary inf	formation:					

#### IEC62368\_1B

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Attachm	ent N	0.1			.C`			
			X.	IEC 6	2368-1		. G	i i i
Clause	Rec	quirement + Te	est		Result	- Remark	K	Verdict
6			~		40			å
			IEC		ATTACHMEN	ΓX		12
Clause	Ĵ.	Requirement	+ Test		R	esult - Remark	(	Verdict
1				G	k.			
(Au	ıdio/vi		AN GROUP DI	IEC 6	O TEST REPO 2368-1 ES AND NATIO chnology equipm	NAL DIFFER	ENCES afety requirement	nts)
Differenc	es ac	cording to	EN	62368-1:2	014+A11:2017	1	2	6
Attachme	ent Fo	orm No	EU	_GD_IEC6	2368_1D_II	,C		
Attachme	ent O	riginator	: Ne	mko AS				
Master A	ttach	ment	: Da	te 2021-02-	-04			
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(IEČEE),	Gene		nd. All rights					1
~			OMMON MOD				N.	
			clauses, notes, 62368-1:2014 a		ires and annexe "Z".	s which are ac	ditional to	P
CONTEN	TS	Add the follow Annex ZA (no Annex ZB (no Annex ZC (in Annex ZD (in	ormative) formative)	with th Specia A-dev	ative references neir correspondir al national condi iations nd CENELEC co	ng European p tions	oublications	Р
			e "country" note the following lis		erence documen	t (IEC 62368- <sup>-</sup>	1:2014)	P
		0.2.1	Note	1	Note 3	4.1.15	Note	2
		4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	
		5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	X
	~	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	
		5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	
		10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	1
			ational condition					× P

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Report No. WTH21H12135623Y

#### Attachment No.1

IEC 62368-1 Clause Requirement + Test **Result - Remark** Verdict 1 P Add the following note: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU. 4.Z1 Add the following new subclause after 4.9: Ρ To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment 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. 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. 5.4.2.3.2.4 Add the following to the end of this subclause: N/A The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009. Add the following to  $^{c)}$  and  $^{d)}$  in table 39: 10.2.1 N/A For additional requirements, see 10.5.1.

#### IEC62368\_1B

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### Report No. WTH21H12135623Y

### Attachment No.1

Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + rest	Result - Remain	Verdici
10.5.1	Add the following after the first paragraph:		N/A
	For RS 1 compliance is checked by measurement under the following conditions:	t so	
	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 presets 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.		×0^
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	, NO	
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm <sup>2</sup> , any point 10 cm from the outer surface of the apparatus.	at	
	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.		x <sup>c<sup>1</sup></sup>
	For RS1, the dose-rate shall not exceed 1 $\mu$ Sv/h taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of May 1996.	13	HOT
10.6.1	Add the following paragraph to the end of the subclause:	*	N/A
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.		
10.Z1	Add the following new subclause after 10.6.5.		N/A
	10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz		5
	The amount of non-ionizing radiation is regulated 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 3 GHz).		~
	For intentional radiators, ICNIRP guidelines shoul be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand held and body-mounted devices, attention is draw to EN 50360 and EN 50566	I-	ó
G.7.1	Add the following note:	G	N/A
	NOTE Z1 The harmonized code designations corresponding t	0	~

#### IEC62368\_1B

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### Attachment No.1

		IEC 62	2368-1		
Clause	Requi	rement + Test	10	Result - Remark	Verdic
Bibliography	Add the following	standards:		~	Р
	~	notes for the standard	ls indicated:		
	IEC 60130-9	NOTE Harmonized			
	IEC 60269-2	NOTE Harmonized	as HD 60269-2.		
	IEC 60309-1	NOTE Harmonized	as EN 60309-1.		
	IEC 60364	NOTE some parts h	armonized in HE	) 384/HD 60364 series.	
	IEC 60601-2-4	NOTE Harmonized a	as EN 60601-2-4	l.	
	IEC 60664-5	NOTE Harmonized a	as EN 60664-5.		6
	IEC 61032:1997	NOTE Harmonized a	as EN 61032:199	98 (not modified).	2V
	IEC 61508-1	NOTE Harmonized a	as EN 61508-1.		
	IEC 61558-2-1	NOTE Harmonized a	as EN 61558-2-1		
	IEC 61558-2-4	NOTE Harmonized a	as EN 61558-2-4		
	IEC 61558-2-6	NOTE Harmonized a	as EN 61558-2-6	i. de	
	IEC 61643-1	NOTE Harmonized a	as EN 61643-1.		
	IEC 61643-21	NOTE Harmonized a	as EN 61643-21.		
	IEC 61643-311	NOTE Harmonized a	as EN 61643-311	1.	<u>A</u>
	IEC 61643-321	NOTE Harmonized a			9
~	IEC 61643-331	NOTE Harmonized a	as EN 61643-331	1.	
ZB	ANNEX ZB, SPE	CIAL NATIONAL CO	NDITIONS (EN)		N/A
4.1.15	2	d, Norway and Swede			N/A
	· · · · · · · · · · · · · · · · · · ·	subclause the followin	-		
		e equipment type A ir			
		er equipment or a netwo nnection to reliable ea			
	surge suppressor	s are connected betwe	en the		
		and accessible parts			
		at the equipment shall arthed <b>mains</b> socket-o			1
	The marking text i as follows:	n the applicable count	ries shall be		- Sci
		aratets stikprop skal ti rd som giver forbindel "			
	,	on liitettävä suojakosk	ettimilla		×
	In <b>Norway</b> : "Appa stikkontakt"	ratet må tilkoples jorde	et		
	In <b>Sweden</b> : "Appa uttag"	araten skall anslutas til	l jordat		

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Clause	Requirement + Test	Result - Remark	Verdict
4.7.3	United Kingdom To the end of the subclause the following is added The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	e	N/A
5.2.2.2	Denmark After the 2nd paragraph add the following: A warning (marking <b>safeguard</b> ) for high <b>touch</b> <b>current</b> is required if the <b>touch current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		N/A

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1	IEC 62368-1	X X	
Clause	Requirement + Test	Result - Remark	Verdict
5.4.11.1 and Annex G	<b>Finland and Sweden</b> To the end of the subclause the following is adde For separation of the telecommunication network from earth the following is applicable: If this insulation is solid, including insulation form		N/A
	<ul> <li>part of a component, it shall at least consist of eit</li> <li>two layers of thin sheet material, each of which shall pass the electric strength test below, or</li> <li>one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.</li> </ul>	ther	Y.C.
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances a creepage distances do not exist, if the compone passes the electric strength test in accordance w the compliance clause below and in addition	nt	<u>_</u>
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied I 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and		.6
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,51 It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	kV.	4
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	, HO.	
	<ul> <li>the insulation requirements are satisfied by hav a capacitor classified Y3 as defined by EN 60384</li> <li>14, which in addition to the Y3 testing, is tested w an impulse test of 2,5 kV defined in 5.4.11;</li> </ul>	vith	20
	<ul> <li>the additional testing shall be performed on all t test specimens as described in EN 60384-14;</li> <li>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.</li> </ul>	ore	~
5.5.2.1	Norway	1	N/A
	After the 3rd paragraph the following is added:	G	
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).		

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	IEC 62368-1			
Clause	Requirement + Test	R	esult - Remark	Verdic
		<u> </u>		.0
5.5.6	Finland, Norway and Sweden			N/A
	To the end of the subclause the following is added	d:		
	Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable equipmen type A</b> shall comply with G.10.1 and the test of G.10.2.	t		
5.6.1	Denmark	S		N/A
	Add to the end of the subclause			~
	Due to many existing installations where the sock 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.	.ć		201
	<i>Justification:</i> In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.		HOT	
5.6.4.2.1	Ireland and United Kingdom			N/A
	After the indent for <b>pluggable equipment type A</b> the following is added:	,		
	<ul> <li>the protective current rating is taken to be 13 this being the largest rating of fuse used in the mains plug.</li> </ul>	A,		.d
5.6.5.1	To the second paragraph the following is added:		~	N/A
	The range of conductor sizes of flexible cords to b accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is:			
	1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.		J.	
5.7.5	Denmark			N/A
	To the end of the subclause the following is added	d:		1
	The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	~		20

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2			
Clause	Requirement + Test	Result - Remark	Verdict
5.7.6.1	Norway and Sweden	A	N/A
	To the end of the subclause the following is adde	d:	
	The screen of the television distribution system is normally not earthed at the entrance of the buildin and there is normally no equipotential bonding system within the building. Therefore the protectin earthing of the building installation needs to be isolated from the screen of a cable distribution system.	ng	~
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, whic may be provided by a retailer, for example.	h kot	20
	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:	HCT	
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard.	. A	, , ,
	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)"		140
	NOTE In Norway, due to regulation for CATV-installations, an Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric streng of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	6.2	
	Translation to Norwegian (the Swedish text will a be accepted in Norway):	lso	S.
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – o 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 apparate og kabel-TV nettet."		2
	Translation to Swedish:		
	"Apparater som är kopplad till skyddsjord via jord vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa f medfőra risk för brand. Főr att undvika detta skal vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".	all	HOT

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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
5.7.6.2	Denmark To the end of the subclause the following is The warning (marking safeguard) for high to current is required if the touch current or the protective current exceed the limits of 3,5 m	buch	N/A	
B.3.1 and B.		short- in 3.1 and iniature Type B, hese cluded <b>Jipment</b> ,	N/A	
G.4.2	<ul> <li>Denmark</li> <li>To the end of the subclause the following is Supply cords of single phase appliances ha rated current not exceeding 13 A shall be pre- with a plug according to DS 60884-2-D1:20</li> <li>CLASS I EQUIPMENT provided with socket-outl earth contacts or which are intended to be used locations where protection against indirect contar required according to the wiring rules shall be pre- with a plug in accordance with standard sheet DI DK 2-5a.</li> <li>If a single-phase equipment having a RATED CL exceeding 13 A or if a poly-phase equipment is p with a supply cord with a plug, this plug shall be accordance with the standard sheets DK 6-1a in 60884-2-D1 or EN 60309-2.</li> <li>Mains socket outlets intended for providing to Class II apparatus with a rated current of shall be in accordance DS 60884-2-D1:201 standard sheet DKA 1-4a.</li> <li>Other current rating socket outlets shall be if compliance with Standard Sheet DKA 1-3a 1-1c.</li> </ul>	ving a rovided 11. ets with in ct is ovided K 2-1a or URRENT provided in DS power 2,5 A 1		
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Stan Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a 7a <i>Justification:</i> Heavy Current Regulations, Section 6c			

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.4.2	United Kingdom		N/A
	To the end of the subclause the following is added The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12 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 Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	2.9, at	~
G.7.1	United Kingdom	4	N/A
HOT	<ul> <li>To the first paragraph the following is added:</li> <li>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 'standar plug' in accordance with the Plugs and Sockets et (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.</li> <li>NOTE "Standard plug" is defined in SI 1768:1994 and essent means an approved plug conforming to BS 1363 or an approvection plug.</li> </ul>	rd etc	
G.7.1	Ireland To the first paragraph the following is added: Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member Sta which is equivalent to the relevant Irish Standard	te	N/A
G.7.2	Ireland and United Kingdom		N/A
HOT .	To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm is allowed for equipment which is rated over 10 A and up to and including 13 A.		

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Clause	Requirement + Test	Result - Remark	Verdic
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N. N.
10.5.2	Germany The following requirement applies: For the operation of any cathode ray tube intend for the display of visual images operating at an acceleration voltage exceeding 40 kV, authoriza is required, or application of type approval (Bauartzulassung) and marking.	.U`	N/A
	<i>Justification:</i> German ministerial decree against ionizing radia (Röntgenverordnung), in force since 2002-07-01 implementing the European Directive 96/29/EURATOM.		× <sup>0</sup> `
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	HOT	

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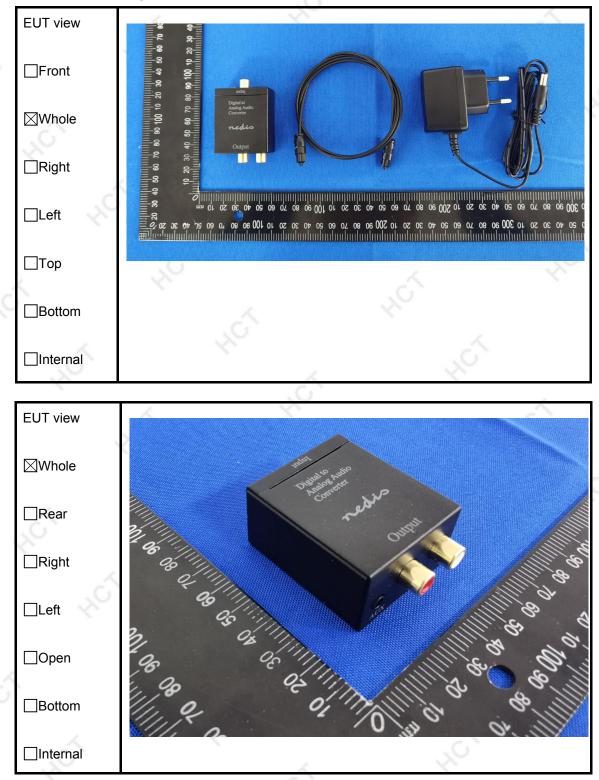
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### Attachment No.2 Product photos



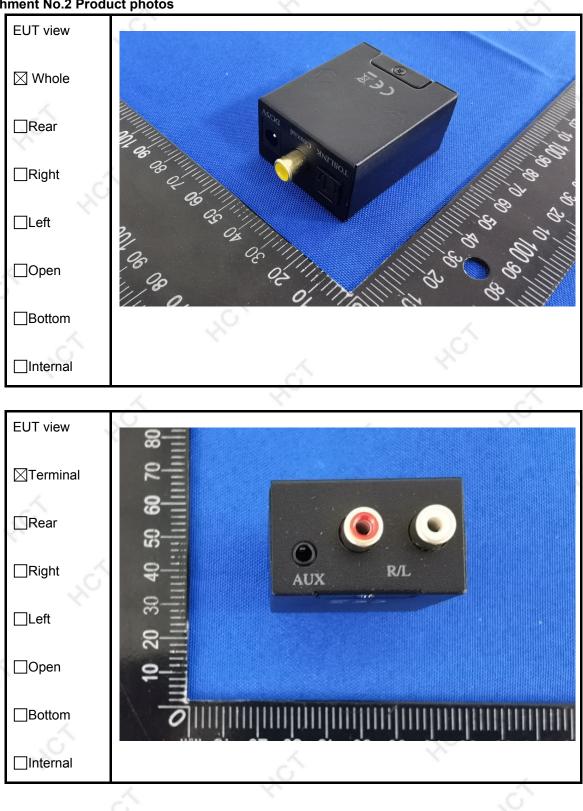
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### **Attachment No.2 Product photos**



#### IEC62368\_1B

深圳市虹彩检测技术有限公司 Shenzhen Hongcai Testing Technology Co., Ltd 广东省深圳市龙岗区龙岗街道新生社区莱茵路30-9号 1层、2 层、3 层 (天基工业园 B 栋厂房) Building B, Tianji Industrial Park, Floor 1&2&3 No.30-9 Laiyin Road, Xinsheng Community, Longgang Street, Longgang District, Shenzhen, Guangdongz, China Web: www.hct-test.com

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# **Attachment No.2 Product photos** EUT view $\widetilde{\infty}$ Terminal Rear **TOSLINK** Coaxial DC/5V Right Left Open Bottom Internal EUT view 6 80 Front indu 00 50 Rear CH V 30 Right 20 0 Left 0 ⊠Open Bottom Internal

### IEC62368\_1B

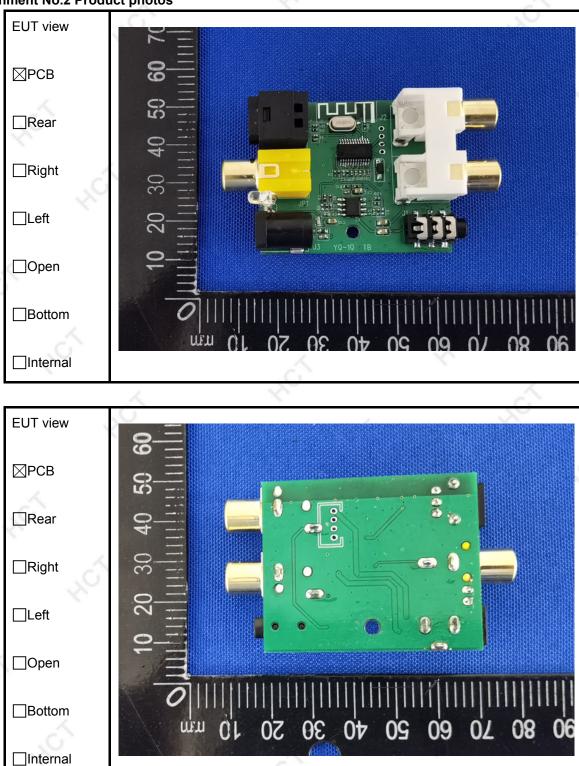
深圳市虹彩检测技术有限公司 Shenzhen Hongcai Testing Technology Co., Ltd 广东省深圳市龙岗区龙岗街道新生社区莱茵路30-9 号 L 层、2 层、3 层 (天基工业园 B 栋厂房) Building B, Tianji Industrial Park, Floor 1 & 2&8 3 No.30-9 L äiyin Road, Xinsheng Community, Longgang Street, Longgang District, Shenzhen, Guangdong, China Web: www.hct-test.com 定 CMA 标识报告中的结果仅用于客户科研、教学、内部质量控制、产品研发等目的,仅供内部参考,对社会不具有证明作用。 有 CNAS 标识报告中的"\*"代表该检测项目暂未申请 CNAS 认可。The result(s) in no CMA logo report shall only be used for client's scientific research, teaching, internal quality control, product research and development, etc..and just for internal reference. does not prove to society. The "\*" in CNAS logo report means that the test item(s) was (were) currently not applying for CNAS accreditation. Tel: 0755-84616666 Fax: 0755-89594380



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### Attachment No.2 Product photos



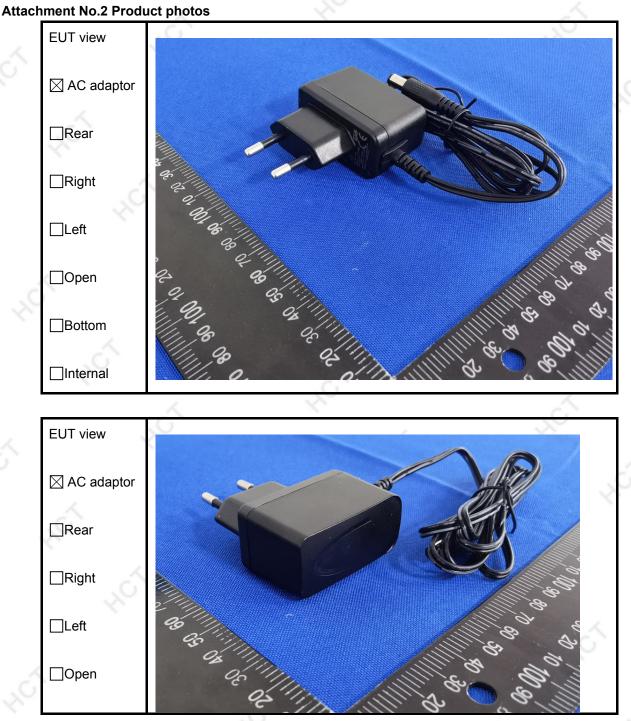
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深圳市虹彩检测技术有限公司 Shenzhen Hongcai Testing Technology Co., Ltd 广东省深圳市龙岗区龙岗街道新生社区莱茵路30-9 号 L 层、2 层、3 层 (天基工业园 B 栋厂房) Building B, Tianji Industrial Park, Floor 1 & 2&8 3 No.30-9 L äiyin Road, Xinsheng Community, Longgang Street, Longgang District, Shenzhen, Guangdong, China Web: www.hct-test.com 无 CMA 标识报告中的结果仅用于客户科研、数学、内部质量控制、产品研发等目的, 仅供内部参考, 对社会不具有证明作用。 有 CNAS 标识报告中的"\*""代表该检测项目暂未申请 CNAS 认可。The result(s) in no CMA logo report shall only be used for client's scientific research, teaching, internal quality control.product research and development, etc...and just for internal reference, does not prove to society. The "\*" in CNAS logo report means that the test item(s) was (were) currently not applying for CNAS accellation. Tel: 0755-84616666 Earch Control Service Tel: 400-0066-989 Fax: 0755-89594380



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### Statement

1. This report is considered invalid without approved signature and special;

2. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which HCT hasn't verified;

- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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### ---The End of Report---

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