

# Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

### **TEST REPORT**

#### IEC 62368-1

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

Report reference No. ..... CTA25030400604

Tested by (name + signature) ...... Kevin Liu

Approved by (name + signature).....: Eric Wang

Date of issue...... Mar. 07, 2025

Testing Laboratory Name ...... Shenzhen CTA Testing Technology Co., Ltd.

Community, Fuhai Street, Bao 'an District, Shenzhen, China

Applicant's Name ...... Shenzhen Pumax Technology co., Itd

Shenzhen

Test specification

Standard .....: IEC 62368-1:2018

EN IEC 62368-1:2020+A11:2020

Test procedure ...... Test report

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

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

TRF originator.....: UL(US)

Master TRF ...... Dated 2022-04-14

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Test item description ...... Wireless speaker

Trademark ...... Pumax

Manufacturer ...... Shenzhen Pumax Technology co ., Itd

3F, Democracy West Industry park, Shajing Street, Bao'an District,

Shenzhen

CTATESTIN

Model and/or type reference ...........: GoPlay 2, FEELTREKBK, VK-3010-BK

Ratings ...... Input: 5V ===1A

**TESTING** 

CTATE

CVA

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

Appendix 1: National differences
Appendix 2: Photo document

#### Summary of testing:

The product covered by this report has been tested and complies with the applicable requirements of this standard.

## **Summary of compliance with National Differences:**

List of countries addressed: European Group Differences and National Differences for details.

☐ The product fulfils the requirements of EN IEC 62368-1:2020+A11:2020

#### Copy of marking plat

**Pumax** 

Wireless speaker Model: GoPlay 2 Input: 5V ===1A

Manufacturer: Shenzhen Pumax Technology co., Itd

Importer: xxx Address: xxx



Made in China

## Remark:

- 1. According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.
- 2. The height of CE mark shall be at least 5mm and the height of WEEE symbol shall be at least 7mm.

Test item particulars:	
Product group:	end product  built-in component
Classification of use by:	
TES	Instructed person
CAL	Skilled person
Supply connection:	☐ AC mains ☐ DC mains ☐ not mains connected:
	⊠ ES1 ☐ ES2 ☐ ES3
Supply tolerance:	+10%/-10%
• • •	+20%/-15%
	<u>+</u> %/- %
19	None
Supply connection – type:	pluggable equipment type A -
CTATES!	<ul><li>non-detachable supply cord</li><li>appliance coupler</li></ul>
CAN CHI	direct plug-in
	pluggable equipment type B -
	non-detachable supply cord
	appliance coupler
	permanent connection
	☐ mating connector ☐ other: Not directly connected to mains
Considered current rating of protective	<u> </u>
device:	Location:
= CTA	⊠ N/A
Equipment mobility:	☐ movable ☐ hand-held ☒ transportable
CTA .	☐ direct plug-in ☐ stationary ☐ for building-ir
	wall/ceiling-mounted SRME/rack-mounted
Overvoltage category (OVC):	☐ other: ☐ OVC II ☐ OVC III
Overvoitage category (Ovc)	OVC IV Sother: Not directly connected to
	mains
Class of equipment::	
	□ Not classified □
Special installation location:	N/A  □ restricted access area □ outdoor location □
Pollution degree (PD):	☐ PD 1
Manufacturer's specified T <sub>ma</sub> :	
IP protection class:	
Power systems::	☐ TN ☐ TT ☐ IT - V <sub>L-L</sub>
Altitude during operation (m):	⊠ not AC mains ⊠ 2000 m or less □ m
	Z 2000 III OI less III
Altitude of test laboratory (m):  Mass of equipment (kg):	
	0.085kg

TATESTING

CTATE

CTATES	"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.	
	General remarks:	The same
	Date (s) of performance of tests: 2025-03-04 to 2025-03-07	
	Testing:  Date of receipt of test item: 2025-03-04	
	- test object does meet the requirement: P (Pass) - test object does not meet the requirement: F (Fail)	
	Possible test case verdicts: - test case does not apply to the test object: N/A	

General product information and other remarks:

#### **Product Description -**

- 1.The product is Wireless speaker intended to be used for audio/video, information and communication technology equipment, which supplied by a DC 5V USB port terminal according to IEC/EN 62368-1 and meet ES1, PS2 requirements.
- 2.The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40°C.
- 3. The equipment was evaluated for a maximum operating altitude up to 2000m.

#### Model Differences -

All the models are identical to each other except for type designation, Unless otherwise specified, tests were performed on model Goplay 2

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Claus	e	Possible Hazard				
5		Electrically-caused injury				
Class	and Energy Source	Body Part		Safeguards		
	S3: Primary circuit)	(e.g. Ordinary)	В	S	R	
ES1: I	nput port	Ordinary	N/A	N/A	N/A	
ES1: A	Il internal circuits	Ordinary	N/A	N/A	N/A	
6		Electrically-caused fire				
Class	and Energy Source	Material part		Safeguards		
(e.g. P	S2: 100 Watt circuit)	(e.g. Printed board)	В	1 <sup>st</sup> S	2 <sup>nd</sup> S	
PS2	CTA	Enclosure	See 6.3	Min. V-2	N/A	
PS2	SAL	РСВ	See 6.3	Min. V-1	N/A	
PS2		Internal / external wiring	See 6.3	See 6.5	N/A	
PS2		Other combustible components / materials	See 6.3	See 6.4.5	N/A	
7	Injury caused by hazardous substances					
Class	and Energy Source	Body Part		Safeguards		
(e.g. C		(e.g., Skilled)	В	S	R	
Batter	XP.	Ordinary	See Annex M	N/A	N/A	
8		Mechanically-caused injury	,			
Class	and Energy Source	Body Part		Safeguards		
(e.g. N	IS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R	
MS1: t	he mass of equipment	Ordinary	N/A	N/A	N/A	
MS1: I	Edges and corners	Ordinary	N/A	N/A	N/A	
9		Thermal burn				
Class	and Energy Source	Body Part		Safeguards		
(e.g. T	S1: Keyboard caps)	(e.g., Ordinary)	В	S	R	
TS1: A	ccessible parts	Ordinary	N/A	N/A	N/A	
10		Radiation				
Class	and Energy Source	Body Part		Safeguards		
	S1: PMP sound output)	(e.g., Ordinary)	В	S	R	
	.ED	Ordinary	N/A	N/A	N/A	

CTA TESTING



Report No. CTA25030400604

Page 6 of 69

#### **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

 $oxed{oxed}$  ES  $oxed{oxed}$  PS  $oxed{oxed}$  MS  $oxed{oxed}$  TS  $oxed{oxed}$  RS

CTATESTING CTATESTING

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies		Р
4.1.2	Use of components	STING	Р
4.1.3	Equipment design and construction	CTATES	Р
4.1.4	Specified ambient temperature for outdoor use (°C)	GIV.	N/A
4.1.5	Constructions and components not specifically covered		P
4.1.8	Liquids and liquid filled components (LFC)	(See G.15)	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	CTING	Р
4.4.3.1	General	-3.	Р
4.4.3.2	Steady force tests	(See Clause T.3, T.4, T.5)	Р
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	(21)	N/A
4.4.3.5	Internal accessible safeguard tests	Not applicable	N/A
4.4.3.6	Glass impact tests	(See Clause T.9, Annex U)	N/A
4.4.3.7	Glass fixation tests		N/A
CI	Glass impact test (1J)		N/A
23 married	Push/pull test (10 N)	TING	N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard	CIL	N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness		P
4.4.4	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks	(See Annex K)	N/A
4.5	Explosion		Р
4.5.1	General	(See Annex M for batteries)	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	CTA	N/A
	Fix conductors not to defeat a safeguard	CAL	N/A
	Compliance is checked by test:	(See Clause T.2)	N/A
4.7	Equipment for direct insertion into mains socket	-outlets	N/A
4.7.2	Mains plug part complies with relevant standard:		N/A
4.7.3	Torque (Nm):	_	N/A
4.8	Equipment containing coin/button cell batteries	CTING	N/A
4.8.1	General	TATES	N/A
		Car.	(en

	IEC 62368-1						
	Clause	Requirement + Test	Result - Remark	Verdict			
	4.8.2	Instructional safeguard:		N/A			
	4.8.3	Battery compartment door/cover construction		N/A			
	3412	Open torque test	.NG	N/A			
	4.8.4.2	Stress relief test	TESTIN	N/A			
	4.8.4.3	Battery replacement test	CTA	N/A			
	4.8.4.4	Drop test	(Car)	N/A	TATE		
	4.8.4.5	Impact test		N/A	CALL		
	4.8.4.6	Crush test		N/A	1		
	4.8.5	Compliance		N/A			
, ,		30N force test with test probe		N/A			
		20N force test with test hook	CTING	N/A			
	4.9	Likelihood of fire or shock due to entry of condu	ctive object	N/A	G		
	4.10	Component requirements		N/A			
	4.10.1	Disconnect Device	(See Annex L)	N/A			
	4.10.2	Switches and relays	(See Annex G)	N/A			

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy source	ces	Р
5.2.2	ES1, ES2 and ES3 limits		Р
5.2.2.2	Steady-state voltage and current limits:	(See appended table 5.2)	Р
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	Ringing signals	(See Annex H)	N/A
5.2.2.7	Audio signals	(See Clause E.1)	P
5.3	Protection against electrical energy sources		N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	All circuits considered ES1	N/A
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	63,	N/A
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	a cTP	N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	(CIP)	N/A
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2	Contact requirements		N/A
CTA	Test with test probe from Annex V		_
5.3.2.2 a)	Air gap – electric strength test potential (V)	(See appended table 5.4.9)	N/A
2004	Air gap – distance (mm):	CTA TESTINO	N/A



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	Clause	Requirement + Test	Result - Remark	Verdict	
		71140			<b>]</b>
	5.3.2.3	Compliance  Terminals for connecting stripped wire		N/A	
	5.3.2.4 <b>5.4</b>	Terminals for connecting stripped wire		N/A	
	25 wagruin	Insulation materials and requirements	CTING	N/A	
	5.4.1.2	Properties of insulating material	TATES	N/A	
	5.4.1.3	Material is non-hygroscopic	C	N/A	
	5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table)	N/A	CTA
	5.4.1.5	Pollution degrees:		N/A	1
	5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		N/A	
	5.4.1.5.3	Thermal cycling test	· Ca	N/A	
	5.4.1.6	Insulation in transformers with varying dimensions	ESTING	N/A	
	5.4.1.7	Insulation in circuits generating starting pulses		N/A	G
	5.4.1.8	Determination of working voltage:	(See appended table 5.4.1.8)	N/A	
	5.4.1.9	Insulating surfaces	CTA	N/A	
	5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		N/A	
	5.4.1.10.2	Vicat test:	(See appended table 5.4.1.10.2)	N/A	
	5.4.1.10.3	Ball pressure test	(See appended table 5.4.1.10.3)	N/A	
	5.4.2	Clearances	STING	N/A	
	5.4.2.1	General requirements	CTATE	N/A	
		Clearances in circuits connected to AC Mains, Alternative method	(See Annex X)	N/A	CTAT
	5.4.2.2	Procedure 1 for determining clearance		N/A	
	LIM	Temporary overvoltage:		_	
ATE	5.4.2.3	Procedure 2 for determining clearance		N/A	
	5.4.2.3.2.2	a.c. mains transient voltage:	. C.		
	5.4.2.3.2.3	d.c. mains transient voltage	STING		
	5.4.2.3.2.4	External circuit transient voltage:		_	G
	5.4.2.3.2.5	Transient voltage determined by measurement:			
	5.4.2.4	Determining the adequacy of a clearance using an electric strength test	(See appended table 5.4.2)	N/A	
	5.4.2.5	Multiplication factors for clearances and test voltages		N/A	
	5.4.2.6	Clearance measurement:	(See appended table 5.4.2)	N/A	
	5.4.3	Creepage distances	, , ,	N/A	
	5.4.3.1	General	-1G	N/A	
	5.4.3.3	Material group:	TESTIN'S		
			CTA CTA		CTAT
					0,,



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		IEC 62368-1			
	Clause	Requirement + Test	Result - Remark	Verdict	
	5.4.3.4	Creepage distances measurement:	(See appended table 5.4.3)	N/A	
	5.4.4	Solid insulation		N/A	
	5.4.4.1	General requirements	-1G	N/A	
	5.4.4.2	Minimum distance through insulation:	(See appended table 5.4.4.2)	N/A	
	5.4.4.3	Insulating compound forming solid insulation	CTA	N/A	
	5.4.4.4	Solid insulation in semiconductor devices		N/A	< D
	5.4.4.5	Insulating compound forming cemented joints		N/A	CIL
.0	5.4.4.6	Thin sheet material		N/A	1
TES	5.4.4.6.1	General requirements		N/A	
	5.4.4.6.2	Separable thin sheet material		N/A	
		Number of layers (pcs):	CTING	N/A	
	5.4.4.6.3	Non-separable thin sheet material	13	N/A	G
F		Number of layers (pcs):		N/A	
	5.4.4.6.4	Standard test procedure for non-separable thin sheet material	(See appended table 5.4.9)	N/A	
	5.4.4.6.5	Mandrel test		N/A	
	5.4.4.7	Solid insulation in wound components		N/A	
	5.4.4.9	Solid insulation at frequencies >30 kHz, E <sub>P</sub> , K <sub>R</sub> , d, V <sub>PW</sub> (V)	(See appended Table 5.4.4.9)	N/A	
		Alternative by electric strength test, tested voltage (V), $K_R$	(See appended Tables 5.4.4.9 and 5.4.9)	N/A	
	5.4.5	Antenna terminal insulation	TATES	N/A	
	5.4.5.1	General	G. C.	N/A	
	5.4.5.2	Voltage surge test		N/A	CTA
	5.4.5.3	Insulation resistance (MΩ)		N/A	
TES	1114	Electric strength test	(See appended table 5.4.9)	N/A	
	5.4.6	Insulation of internal wire as part of supplementary safeguard		N/A	
	5.4.7	Tests for semiconductor components and for cemented joints	ESTING	N/A	C
	5.4.8	Humidity conditioning		N/A	
		Relative humidity (%), temperature (°C), duration (h):	CTA	_	
	5.4.9	Electric strength test		N/A	
	5.4.9.1	Test procedure for type test of solid insulation:	(See appended table 5.4.9)	N/A	
	5.4.9.2	Test procedure for routine test		N/A	
	5.4.10	Safeguards against transient voltages from external circuits		N/A	
	5.4.10.1	Parts and circuits separated from external circuits	CTING	N/A	
	5.4.10.2	Test methods	TATES	N/A	
			Car.	(EVA)	CTA

	IEC 62368-1	The second secon	
Clause	Requirement + Test	Result - Remark	Verdict
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test:	(See appended table 5.4.9)	N/A
5.4.10.2.3	Steady-state test:	(See appended table 5.4.9)	N/A
5.4.10.3	Verification for insulation breakdown for impulse test:	CTATESTING	N/A
5.4.11	Separation between external circuits and earth	(EVA)	N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A
	SPDs bridge separation between external circuit and earth		N/A
	Rated operating voltage U <sub>op</sub> (V):	CTING	
	Nominal voltage U <sub>peak</sub> (V):	Es.	_
	Max increase due to variation ΔU <sub>sp</sub> :		_
	Max increase due to ageing $\Delta U_{sa}$ :	CTA	_
5.4.11.3	Test method and compliance:	(See appended table 5.4.9)	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:	(See appended table 5.4.9)	N/A
5.4.12.3	Compatibility of an insulating liquid:	(See appended table 5.4.9)	N/A
5.4.12.4	Container for insulating liquid:	GTING	N/A
5.5	Components as safeguards	CTATES	N/A
5.5.1	General	CIN CI	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:	(See appended table 5.5.2.2)	N/A
5.5.3	Transformers	. C.	N/A
5.5.4	Optocouplers	(See sub-clause 5.4 or Clause G.12)	N/A
5.5.5	Relays	(See sub-clause 5.4)	N/A
5.5.6	Resistors	(See Clause G.10)	N/A
5.5.7	SPDs	(See Clause G.8)	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable:		N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment		N/A
CTA	RCD rated residual operating current (mA):		_
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors	TESTIN	N/A
		CTA.	



	IEC 62368-1		1
Clause	Requirement + Test	Result - Remark	Verdict
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors		N/A
5.6.2.1	General requirements	.NG	N/A
5.6.2.2	Colour of insulation	TESTINE	N/A
5.6.3	Requirement for protective earthing conductors	CTA	N/A
	Protective earthing conductor size (mm²):	CI	_
TING	Protective earthing conductor serving as a reinforced safeguard		N/A
	Protective earthing conductor serving as a double safeguard		N/A
5.6.4	Requirements for protective bonding conductors		N/A
5.6.4.1	Protective bonding conductors	ESTING	N/A
	Protective bonding conductor size (mm²):		_
5.6.4.2	Protective current rating (A):	-11	N/A
5.6.5	Terminals for protective conductors	Can Cit	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm):		N/A
	Terminal size for connecting protective bonding conductors (mm):		N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective bonding system	SING	N/A
5.6.6.1	Requirements	TESTING	N/A
5.6.6.2	Test Method:	(See appended table 5.6.6)	N/A
5.6.6.3	Resistance ( $\Omega$ ) or voltage drop:	(See appended table 5.6.6)	N/A
5.6.7	Reliable connection of a protective earthing conductor		N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm²):		N/A
	Class II with functional earthing marking:	TING	N/A
	Appliance inlet cl & cr (mm):	55	N/A
5.7	Prospective touch voltage, touch current and pro	otective conductor current	N/A
5.7.2	Measuring devices and networks	CIP	N/A
5.7.2.1	Measurement of touch current	CYL	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:	(See appended table 5.7.4)	N/A
5.7.5	Earthed accessible conductive parts:	(See appended table 5.7.5)	N/A
5.7.6	Requirements when touch current exceeds ES2 limits	TATESTIN	N/A
16		CIN C.	(FIN

JG		IEC 62368-1	C.	
	Clause	Requirement + Test	Result - Remark	Verdict
		Protective conductor current (mA):		N/A
	CTA	Instructional Safeguard:		N/A
	5.7.7	Prospective touch voltage and touch current associated with external circuits	STING	N/A
	5.7.7.1	Touch current from coaxial cables	CIATES	N/A
	5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	CIP C	N/A
	5.7.8	Summation of touch currents from external circuits		N/A
STATES	TIME	a) Equipment connected to earthed external circuits, current (mA):		N/A
, CV		b) Equipment connected to unearthed external circuits, current (mA):	ING	N/A
	5.8	Backfeed safeguard in battery backed up supplie	esS	N/A
		Mains terminal ES	(See appended table 5.8)	N/A
		Air gap (mm):	-<0	N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS		Р
6.2.2	Power source circuit classifications	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources		N/A
6.2.3.1	Arcing PIS	(See appended table 6.2.3.1)	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	Р
6.3	Safeguards against fire under normal operating a conditions	nd abnormal operating	Р
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table B.1.5 and B.3)	P
	Combustible materials outside fire enclosure:	(See appended Table 4.1.2)	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		N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	CIN CIN	N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions	(See appended table B.4)	N/A
-TA	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		Р
6.4.5	Control of fire spread in PS2 circuits	TING	Р
-ING	Co.	CTATESTING	CIN C



01	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
6.4.5.2	Supplementary safeguards	Compliance detailed as follows:  - Printed board: rated min. V-0  - Battery pack: complying with IEC/EN 62133-2  - 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).  Fire enclosure rated V-0 used.	P
6.4.6	Control of fire spread in PS3 circuits	. C	N/A
6.4.7	Separation of combustible materials from a PIS	STING	N/A
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	CTA	Р
6.4.8.2	Fire enclosure and fire barrier material properties		Р
6.4.8.2.1	Requirements for a fire barrier		N/A
6.4.8.2.2	Requirements for a fire enclosure		Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No opening	N/A
6.4.8.3.2	Fire barrier dimensions	TATES	N/A
6.4.8.3.3	Top openings and properties	Carlo Civi	N/A
	Openings dimensions (mm):		N/A
6.4.8.3.4	Bottom openings and properties		N/A
1111	Openings dimensions (mm):		N/A
	Flammability tests for the bottom of a fire enclosure	(See Clause S.3)	N/A
	Instructional Safeguard:	, 1G	N/A
6.4.8.3.5	Side openings and properties	£57114	N/A
	Openings dimensions (mm):		N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c):	CTA	N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:		Р
6.4.9	Flammability of insulating liquid:		N/A
6.5	Internal and external wiring	•	Р
6.5.1	General requirements	Internal wiring rated VW-1	Р
6.5.2	Requirements for interconnection to building wiring	ESTING	N/A
		CTATES!	GW.





	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
6.5.3	Internal wiring size (mm²) for socket-outlets:		N/A
6.6	Safeguards against fire due to the connection to	additional equipment	N/A
2) unstantin	CTATES	JAG	•
7	INJURY CAUSED BY HAZARDOUS SUBSTANCE	:s	Р

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

		E2.	
8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classifications	CTP	Р
8.3	Safeguards against mechanical energy sources		Р
8.4	Safeguards against parts with sharp edges and co	orners	Р
8.4.1	Safeguards		Р
CTA	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	TESI	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts	CW C/V	N/A
-ING	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
1111	Moving MS3 parts only accessible to skilled person		N/A
8.5.2	Instructional safeguard:		N/A
8.5.4	Special categories of equipment containing moving parts	STING	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	CIL	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		N/A
8.5.4.2.3	Emergency stop system		N/A
NIN THE RESERVE TO TH	Maximum stopping distance from the point of activation (m)	STING	N/A
		GTA CTATESTING	



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
= cTA	Space between end point and nearest fixed mechanical part (mm)		N/A
8.5.4.2.4	Endurance requirements		N/A
2003	Mechanical system subjected to 100 000 cycles of operation	TATESTING	N/A
	- Mechanical function check and visual inspection	CIL	N/A
	- Cable assembly:		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media		N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:		N/A
8.5.4.3.3	Disconnection from the supply	GING	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	CT	N/A
	Explosion test		N/A
8.5.5.3	Glass particles dimensions (mm):		N/A
8.6	Stability of equipment	1	N/A
8.6.1	General		N/A
	Instructional safeguard:	. C.	N/A
8.6.2	Static stability	STING	N/A
8.6.2.2	Static stability test:	CTATE	N/A
8.6.2.3	Downward force test	(31)	N/A
8.6.3	Relocation stability		N/A
TING	Wheels diameter (mm):		_
	Tilt test		N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test:	TING	N/A
8.7	Equipment mounted to wall, ceiling or other struc	ture	N/A
8.7.1	Mount means type:		N/A
8.7.2	Test methods	CTP	N/A
	Test 1, additional downwards force (N):		N/A
	Test 2, number of attachment points and test force (N)		N/A
CTAT	Test 3 Nominal diameter (mm) and applied torque (Nm)		N/A
	Handles strength	.1G	N/A
8.8			



		IEC 62368-1			]
	Clause	Requirement + Test	Result - Remark	Verdict	
	8.8.2	Handle strength test		N/A	]
	CTA	Number of handles:		_	
		Force applied (N)	,siG	_	
	8.9	Wheels or casters attachment requirements	TESTIN	N/A	=
	8.9.2	Pull test	CTA	N/A	
	8.10	Carts, stands and similar carriers		N/A	STATE
	8.10.1	General		N/A	G /
	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	GTING	N/A	
	8.10.5	Mechanical stability	E	N/A	G
		Force applied (N)		TEST"	
	8.10.6	Thermoplastic temperature stability	CTP	N/A	
	8.11	Mounting means for slide-rail mounted equipmen	t (SRME)	N/A	
	8.11.1	General		N/A	
	8.11.2	Requirements for slide rails		N/A	
	CIA	Instructional Safeguard		N/A	-
	8.11.3	Mechanical strength test	·C	N/A	
	8.11.3.1	Downward force test, force (N) applied:	ESTING	N/A	
	8.11.3.2	Lateral push force test	CTATE	N/A	
	8.11.3.3	Integrity of slide rail end stops	(EVA)	N/A	TES
	8.11.4	Compliance		N/A	CIL
	8.12	Telescoping or rod antennas		N/A	
TATE	5 \ '	Button/ball diameter (mm):		_	
		ESTING			7
	۵	THEDMAL BLIDN IN HIDV		Ь	

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)	Р	
9.3.2	Test method and compliance	Р	
9.4	Safeguards against thermal energy sources	N/A	
9.5	Requirements for safeguards	N/A	
9.5.1	Equipment safeguard	N/A	
9.5.2	Instructional safeguard:	N/A	
9.6	Requirements for wireless power transmitters	N/A	
9.6.1	General	N/A	
		GA	CTATES

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
9.6.2	Specification of the foreign objects		N/A
9.6.3	Test method and compliance:	(See appended table 9.6)	N/A
541	TATES	. IG	

Radiation energy source classification General classification assers	Not applicable  Not applicable	P P
asers	Indicating LED class as RS1  Not applicable  Not applicable  Not applicable  as and lamp systems (including	
amps and lamp systems	Indicating LED class as RS1  Not applicable  Not applicable  Not applicable  as and lamp systems (including	N/A
rage projectors	Not applicable Not applicable Not applicable s and lamp systems (including	N/A
C-Ray	Not applicable  Not applicable  s and lamp systems (including	N/A
Personal music player:  Safeguards against laser radiation The standard(s) equipment containing laser(s) comply	Not applicable s and lamp systems (including	N/A
Gafeguards against laser radiation The standard(s) equipment containing laser(s) Comply Gafeguards against optical radiation from lamps (ED types) General requirements Instructional safeguard provided for accessible	s and lamp systems (including	N/A
The standard(s) equipment containing laser(s) comply		N/A
comply		
General requirements Instructional safeguard provided for accessible		Р
nstructional safeguard provided for accessible	Indicating LED class as RS1	
	-	Р
adiation level needs to exceed		N/A
Risk group marking and location		N/A
nformation for safe operation and installation	STING	N/A
Requirements for enclosures	CIATE	N/A
IV radiation exposure	(See Annex C)	N/A
nstructional safeguard:		N/A
afeguards against X-radiation		N/A
Requirements		N/A
nstructional safeguard for skilled persons:		_
flaximum radiation (pA/kg)	(See appended tables B.3 & B.4)	_
afeguards against acoustic energy sources		N/A
General		N/A
Classification	C C	N/A
coustic output $L_{Aeq,T}$ , dB(A):		N/A
Inweighted RMS output voltage (mV):		N/A
Digital output signal (dBFS)		N/A
Requirements for dose-based systems		N/A
Seneral requirements	- 10	N/A
Oose-based warning and automatic decrease	ESTING	N/A
	equirements for enclosures  V radiation exposure	equirements for enclosures  V radiation exposure





		IEC 62368-1	G	
	Clause	Requirement + Test	Result - Remark	Verdict
	10.6.3.3	Exposure-based warning and requirements		N/A
	110 CTP	30 s integrated exposure level (MEL30)		N/A
	SAID	Warning for MEL ≥ 100 dB(A):	.NG	N/A
	10.6.4	Measurement methods	TESTIN	N/A
	10.6.5	Protection of persons	CTA	N/A
		Instructional safeguards:	CAN	N/A
	10.6.6	Requirements for listening devices (headphones, earphones, etc.)		N/A
TH.	10.6.6.1	Corded listening devices with analogue input		N/A
		Listening device input voltage (mV):	ING	N/A
	10.6.6.2	Corded listening devices with digital input	ESTI	N/A
		Max. acoustic output L <sub>Aeq,T</sub> , dB(A):		N/A
	10.6.6.3	Cordless listening devices	ATP	N/A
		Max. acoustic output L <sub>Aeq,T</sub> , dB(A):	CHANGE OF THE COLUMN TO SERVICE OF THE SERVICE	N/A

	CONDITION TESTS AND SINGLE FAULT CONDI	HUN TESTS	
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:	(See Test Item Particulars and appended test tables)	Р
	Audio Amplifiers and equipment with audio amplifiers:	(See Annex E)	P
B.2.3	Supply voltage and tolerances		Р
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		Р
B.3.1	General	CING	Р
B.3.2	Covering of ventilation openings	Es	N/A
	Instructional safeguard:	4	N/A
B.3.3	DC mains polarity test	CTA	N/A
B.3.4	Setting of voltage selector	(C)	N/A
B.3.5	Maximum load at output terminals		N/A
B.3.6	Reverse battery polarity		N/A
B.3.7	Audio amplifier abnormal operating conditions		Р
B.3.8	Safeguards functional during and after abnormal operating conditions	(See appended table B.3)	Р
B.4	Simulated single fault conditions	TESI	Р
		CAN CAL	CIA



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
B.4.1	General		Р
B.4.2	Temperature controlling device		N/A
B.4.3	Blocked motor test	"NG	N/A
B.4.4	Functional insulation	TESTIN	Р
B.4.4.1	Short circuit of clearances for functional insulation	CTA	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(Car)	P
B.4.4.3	Short circuit of functional insulation on coated printed boards		N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors		Р
B.4.6	Short circuit or disconnection of passive components	ESTING	Р
B.4.7	Continuous operation of components		N/A
B.4.8	Compliance during and after single fault conditions	(See appended table B.4)	Р
B.4.9	Battery charging and discharging under single fault conditions	(See Annex M)	Р
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV ra	diation	N/A
C.1.2	Requirements		N/A
C.1.3	Test method	TING	N/A
C.2	UV light conditioning test	TESI	N/A
C.2.1	Test apparatus:	CINCIP	N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	.16	N/A
D.2	Antenna interface test generator	ESTING	N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINI	NG AUDIO AMPLIFIERS	P
E.1	Electrical energy source classification for audio	signals	Р
	Maximum non-clipped output power (W):	C	_
	Rated load impedance (Ω):		_
	Open-circuit output voltage (V):		_
CTA	Instructional safeguard:	See Clause F.5	_
E.2	Audio amplifier normal operating conditions		Р
23.07	Audio signal source type:	ZESTING	_
		CTA CTA TE	EW.

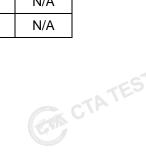


	IEC 62368-1	Carr	
Clause	Requirement + Test	Result - Remark	Verdict
	Audio output power (W):		_
CTI	Audio output voltage (V):		_
C To The Control of t	Rated load impedance (Ω):	, NG	_
	Requirements for temperature measurement	(See Table B.1.5)	Р
E.3	Audio amplifier abnormal operating conditions	(See Table B.3, B.4)	Р
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND SAFEGUARDS	INSTRUCTIONAL	P
<b>E-1</b> NG	General		P
5	Language:	Instructions in English are reviewed.	_
F.2	Letter symbols and graphical symbols	G	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	P
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 enclosure of the equipment and is easily visible	Р
F.3.2	Equipment identification markings	,	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	Р
F.3.2.2	Model identification:	See copy of marking plate	Р
F.3.3	Equipment rating markings	(EVA	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	Р
F.3.3.4	Rated voltage:	See the marking	Р
F.3.3.5	Rated frequency	TING	N/A
F.3.3.6	Rated current or rated power:	See the marking	Р
F.3.3.7	Equipment with multiple supply connections		N/A
F.3.4	Voltage setting device	CIA	N/A
F.3.5	Terminals and operating devices	See below.	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	No such devices on the equipment.	N/A
F.3.5.2	Switch position identification marking:	No such switch on the equipment.	N/A
F.3.5.3	Replacement fuse identification and rating markings:	No such components	N/A
	Instructional safeguards for neutral fuse:	TESTIN	N/A

	IEC 62368-1	C	·
Clause	Requirement + Test	Result - Remark	Verdict
F.3.5.4	Replacement battery identification marking:		Р
F.3.5.5	Neutral conductor terminal		N/A
F.3.5.6	Terminal marking location	, NG	N/A
F.3.6	Equipment markings related to equipment classification	CTATESTING	N/A
F.3.6.1	Class I equipment	Class III equipment	N/A
F.3.6.1.1	Protective earthing conductor terminal:	223 24950	N/A
F.3.6.1.2	Protective bonding conductor terminals:		N/A
F.3.6.2	Equipment class marking:		N/A
F.3.6.3	Functional earthing terminal marking:		N/A
F.3.7	Equipment IP rating marking:	-ING	N/A
F.3.8	External power supply output marking:	ESTIN	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	ESTI
	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit.  After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking remained legible.	P
F.4	Instructions	T	P
, .	a) Information prior to installation and initial use		Р
	b) Equipment for use in locations where children not likely to be present	-1G	N/A
	c) Instructions for installation and interconnection	ESTING	Р
	d) Equipment intended for use only in restricted access area	1	N/A
	e) Equipment intended to be fastened in place	CAN CI	N/A
	f) Instructions for audio equipment terminals		N/A
	g) Protective earthing used as a safeguard		N/A
CIA	h) Protective conductor current exceeding ES2 limits		N/A
SAN.	i) Graphic symbols used on equipment		Р
2000	j) Permanently connected equipment not provided with all-pole mains switch	ESTING	N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
- CTF	k) Replaceable components or modules providing safeguard function		N/A
CVA	Equipment containing insulating liquid		N/A
	m) Installation instructions for outdoor equipment	TESTING	N/A
F.5	Instructional safeguards	CIA	Р
G	COMPONENTS		P
G.1	Switches		N/A
G.1.1	General		N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.1.3	Test method and compliance	.164	N/A
G.2	Relays	ESTING	N/A
G.2.1	Requirements		N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supplying power to other equipment	CAN CIN	N/A
G.2.4	Test method and compliance		N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs		N/A
TANK TO THE PARTY OF THE PARTY	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	-ING	N/A
	Thermal cut-outs tested as part of the equipment as indicated in c)	CTATESTIN	N/A
G.3.1.2	Test method and compliance	(EVA)	N/A
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics		N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance	.1G	N/A
G.3.3	PTC thermistors	ESTING	N/A
G.3.4	Overcurrent protection devices		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4	CTA	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	C.	N/A
G.3.5.2	Single faults conditions:	(See appended table B.4)	N/A
G.4	Connectors		N/A
G.4.1	Spacings		N/A
G.4.2	Mains connector configuration:	ING	N/A
		CTATESTING CTATESTING	





		IEC 62368-1		
Clau	se	Requirement + Test	Result - Remark	Verdict
G.4.3	3 CTA	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A
G.5		Wound components		N/A
G.5.1	1	Wire insulation in wound components	GTING	N/A
G.5.1	1.2	Protection against mechanical stress	CTATES	N/A
G.5.2	2	Endurance test	(EIN)	N/A
G.5.2	2.1	General test requirements		N/A
G.5.2	2.2	Heat run test		N/A
ESTI		Test time (days per cycle):		
		Test temperature (°C)		
G.5.2	2.3	Wound components supplied from the mains	ING	N/A
G.5.2	2.4	No insulation breakdown	ESTIN	N/A
G.5.3	3	Transformers		N/A
G.5.3	3.1	Compliance method:	- cTA	N/A
		Position	(en	N/A
		Method of protection:		N/A
G.5.3	3.2	Insulation		N/A
		Protection from displacement of windings:		
G.5.3	3.3	Transformer overload tests		N/A
G.5.3	3.3.1	Test conditions	ING	N/A
G.5.3	3.3.2	Winding temperatures	TESTIN	N/A
G.5.3	3.3.3	Winding temperatures - alternative test method	CTA	N/A
G.5.3	3.4	Transformers using FIW	C. C.	N/A
G.5.3	3.4.1	General		N/A
STIN	9	FIW wire nominal diameter:		_
G.5.3	3.4.2	Transformers with basic insulation only		N/A
G.5.3	3.4.3	Transformers with double insulation or reinforced insulation:	TING	N/A
G.5.3	3.4.4	Transformers with FIW wound on metal or ferrite core	E2,	N/A
G.5.3	3.4.5	Thermal cycling test and compliance	-10	N/A
G.5.3	3.4.6	Partial discharge test	C.	N/A
G.5.3	3.4.7	Routine test		N/A
G.5.4	1	Motors		N/A
G.5.4	4.1	General requirements		N/A
G.5.4	1.2	Motor overload test conditions		N/A
G.5.4	4.3	Running overload test	.16	N/A
G.5.4	1.4.2	Locked-rotor overload test	ESTINE	N/A

		IEC 62368-1		
	Clause	Requirement + Test	Result - Remark	Verdict
		Test duration (days)		_
	G.5.4.5	Running overload test for DC motors		N/A
	G.5.4.5.2	Tested in the unit	.1G	N/A
	G.5.4.5.3	Alternative method	ESTINO	N/A
	G.5.4.6	Locked-rotor overload test for DC motors	CTA	N/A
	G.5.4.6.2	Tested in the unit	CVI	N/A
		Maximum Temperature:		N/A
	G.5.4.6.3	Alternative method		N/A
	G.5.4.7	Motors with capacitors		N/A
3.11	G.5.4.8	Three-phase motors		N/A
	G.5.4.9	Series motors	CTING	N/A
		Operating voltage:	ES	
	G.6	Wire Insulation	I .	N/A
	G.6.1	General	CTA	N/A
	G.6.2	Enamelled winding wire insulation	CI	N/A
	G.7	Mains supply cords		N/A
	G.7.1	General requirements		N/A
		Туре:		
	G.7.2	Cross sectional area (mm² or AWG):		N/A
	G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	TESTING	N/A
	G.7.3.2	Cord strain relief	CTA CTA	N/A
	G.7.3.2.1	Requirements	Co.	N/A
	. C	Strain relief test force (N):		N/A
	G.7.3.2.2	Strain relief mechanism failure		N/A
TATE	G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
	G.7.3.2.4	Strain relief and cord anchorage material	. C	N/A
	G.7.4	Cord Entry	STING	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	CAK CTA	N/A
		Overall diameter or minor overall dimension, <i>D</i> (mm):		_
		Radius of curvature after test (mm)		
	G.7.6	Supply wiring space		N/A
	G.7.6.1	General requirements		N/A
	G.7.6.2	Stranded wire	TING	N/A
	G.7.6.2.1	Requirements	TEST	N/A

Clavis	IEC 62368-1	Decult Demonstr	\/a==!'-+
Clause	Requirement + Test	Result - Remark	Verdict
G.7.6.2.2	Test with 8 mm strand		N/A
G.8	Varistors		N/A
G.8.1	General requirements	-,NG	N/A
G.8.2	Safeguards against fire	TESTIN	N/A
G.8.2.1	General	CTA	N/A
G.8.2.2	Varistor overload test	GIL	N/A
G.8.2.3	Temporary overvoltage test		N/A
G.9	Integrated circuit (IC) current limiters		N/A
G.9.1	Requirements		N/A
	IC limiter output current (max. 5A):		
	Manufacturers' defined drift:	STING	_
G.9.2	Test Program	E	N/A
G.9.3	Compliance		N/A
G.10	Resistors	CTP	N/A
G.10.1	General		N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test		N/A
G.10.4	Voltage surge test		N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test	STING	N/A
G.11	Capacitors and RC units	CTATES	N/A
G.11.1	General requirements	(EII)	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	.6	N/A
	Type test voltage V <sub>ini,a</sub> :	ESTING	_
	Routine test voltage, V <sub>ini, b</sub> :		_
G.13	Printed boards	A A	TEP P
G.13.1	General requirements	Approved Printed board used	Р
G.13.2	Uncoated printed boards		Р
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
G.13.5	Insulation between conductors on different surfaces	-,NG	N/A
	Distance through insulation:	TESTIL	N/A
		CAL CAL	

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	-1116		
0.40.0	Number of insulation layers (pcs):		
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection	CTING	N/A
G.13.6.2	Test method and compliance	- TATES.	N/A
G.14	Coating on components terminals	(0 01 0.40)	N/A
G.14.1	Requirements:	(See Clause G.13)	N/A
G.15	Pressurized liquid filled components		N/A
G.15.1	Requirements  To at most had a part of a particular and a		N/A
G.15.2	Test methods and compliance		N/A
G.15.2.1	Hydrostatic pressure test	:510	N/A
G.15.2.2	Creep resistance test	ESTING	N/A
G.15.2.3	Tubing and fittings compatibility test		N/A
G.15.2.4	Vibration test	- 1	N/A
G.15.2.5	Thermal cycling test	C C	N/A
G.15.2.6	Force test		N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	<u> </u>	N/A
G.16.1	Condition for fault tested is not required		N/A
S. S. D.	ICX with associated circuitry tested in equipment	(3)	N/A
	ICX tested separately	TESTING	N/A
G.16.2	Tests	CIATI	N/A
	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	CIP	_
TING	Mains voltage that impulses to be superimposed on:		_
TING	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:		_
G.16.3	Capacitor discharge test:	.NG	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General		N/A
H.2	Method A	-10	N/A
H.3	Method B		N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz):		_
H.3.1.2	Voltage (V):		_
H.3.1.3	Cadence; time (s) and voltage (V):		_
	Single fault current (mA)::		_
H.3.1.4		~!!!!~	

G		IEC 62368-1		
	Clause	Requirement + Test	Result - Remark	Verdict
I	H.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
(	H.3.2.2	Tripping device		N/A
	H.3.2.3	Monitoring voltage (V):	GTING	N/A
,	J	INSULATED WINDING WIRES FOR USE WITHOU	JT INTERLEAVED INSULATION	N/A
,	J.1	General	(EM)	N/A
		Winding wire insulation:	100000	
	TING	Solid round winding wire, diameter (mm):		N/A
CTATES	77.	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):		N/A
	J.2/J.3	Tests and Manufacturing	(See separate test report)	_
	K	SAFETY INTERLOCKS		N/A
1	K.1	General requirements		N/A
		Instructional safeguard:		N/A
	K.2	Components of safety interlock safeguard mech	anism	N/A
3	K.3	Inadvertent change of operating mode		N/A
	K.4	Interlock safeguard override		N/A
	K.5	Fail-safe		N/A
7	K.5.1	Under single fault condition		N/A
	K.6	Mechanically operated safety interlocks	1G	N/A
[1	K.6.1	Endurance requirement		N/A
Ī	K.6.2	Test method and compliance		N/A
	K.7	Interlock circuit isolation	(CV)	N/A
	K.7.1	Separation distance for contact gaps & interlock circuit elements		N/A
TATES		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	(See appended table 5.4.9)	N/A
Г	K.7.2	Overload test, Current (A):		N/A
	K.7.3	Endurance test		N/A
	K.7.4	Electric strength test		N/A
<u> </u>	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
Ī	L.4	Single-phase equipment		N/A

Clause	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
	Instructional safeguard:		N/A
М	EQUIPMENT CONTAINING BATTERIES AND THE	EIR PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		Р
M.2.1	Batteries and their cells comply with relevant IEC standards:	Built-in battery pack complied with IEC/EN 62133-2	Р
M.3	Protection circuits for batteries provided within the equipment	ESTING	Р
M.3.1	Requirements		Р
M.3.2	Test method		Р
	Overcharging of a rechargeable battery		Р
	Excessive discharging		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
M.4	Additional safeguards for equipment containing battery	a portable secondary lithium	Р
M.4.1	General		Р
M.4.2	Charging safeguards	C	Р
M.4.2.1	Requirements		P
M.4.2.2	Compliance	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:	Battery cell output complied with PS2	Р
M.4.4	Drop test of equipment containing a secondary lithium battery	ESTING	Р
101.4.4			
M.4.4.2	Preparation and procedure for the drop test		Р
M.4.4.2	Preparation and procedure for the drop test  Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	After test, the voltage difference of reference (undropped) battery and tested battery are not exceed 5%	Р
M.4.4.2 M.4.4.3	Drop, Voltage on reference and dropped batteries	of reference (undropped) battery and tested battery are not	Р
M.4.4.2	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	of reference (undropped) battery and tested battery are not exceed 5%  Charging normally and	Р
M.4.4.2 M.4.4.3 M.4.4.4	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::  Check of the charge/discharge function	of reference (undropped) battery and tested battery are not exceed 5%  Charging normally and	P
M.4.4.2 M.4.4.3 M.4.4.4 M.4.4.5	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::  Check of the charge/discharge function  Charge / discharge cycle test	of reference (undropped) battery and tested battery are not exceed 5%  Charging normally and Discharging normally	P P

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
M.5.2	Test method and compliance		Р
M.6	Safeguards against short-circuits		Р
M.6.1	External and internal faults		Р
M.6.2	Compliance		Р
M.7	Risk of explosion from lead acid and NiCd batte	ries	N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
	Calculated hydrogen generation rate:		N/A
M.7.2	Test method and compliance		N/A
	Minimum air flow rate, Q (m³/h)		N/A
M.7.3	Ventilation tests		N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A
	Hydrogen gas concentration (%):		N/A
M.7.3.3	Ventilation test – alternative 2		N/A
	Obtained hydrogen generation rate:		N/A
M.7.3.4	Ventilation test – alternative 3		N/A
	Hydrogen gas concentration (%):		N/A
M.7.4	Marking:		N/A
M.8	Protection against internal ignition from externa with aqueous electrolyte	I spark sources of batteries	N/A
M.8.1	General	2110	N/A
M.8.2	Test method	CTA	N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume V <sub>Z</sub> (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		Р
	Instructional safeguard:	Similar statement mentioned in the instructions	Р
N	ELECTROCHEMICAL POTENTIALS		N/A
	Material(s) used		_
0	MEASUREMENT OF CREEPAGE DISTANCES AN	ND CLEARANCES	N/A
	Value of X (mm):		_
		CTATES!	

<b>D</b>	CAFFOLIADDO ACAINOT CONDUCTIVE OD IFOT	-0	
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	<b>S</b>	Р
P.1	General	etwa et a famalum alchaet	P
P.2	Safeguards against entry or consequences of er	ntry of a foreign object	P
P.2.1	General		P
P.2.2	Safeguards against entry of a foreign object		Р
_	Location and Dimensions (mm):	No opening	_
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	CTA	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, Tc (°C):		
	Duration (weeks):		
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources		N/A
Q.1.1	Requirements		N/A
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	c) Regulating network limited output		N/A
	d) Overcurrent protective device limited output		N/A
	e) IC current limiter complying with G.9		N/A
Q.1.2	Test method and compliance:	(See appended table Q.1)	N/A
	Current rating of overcurrent protective device (A)		N/A
Q.2	Test for external circuits – paired conductor cable		N/A
	Maximum output current (A):		N/A
	Current limiting method:		_
		C	

Clause	Requirement + Test	Result - Remark	Verdict
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General		N/A
R.2	Test setup		N/A
11.2	Overcurrent protective device for test:		14/71
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 bar where the steady state power does not exceed 4		N/A
	Samples, material:		
	Wall thickness (mm):		_
	Conditioning (°C)		_
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barr	ier integrity	N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C)		_
S.3	Flammability test for the bottom of a fire enclosu	ure	N/A
S.3.1	Mounting of samples		N/A
S.3.2	Test method and compliance		N/A
	Mounting of samples:		_
	Wall thickness (mm):		—
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C)		_
Т	MECHANICAL STRENGTH TESTS		Р
T.1	General		Р
T.2	Steady force test, 10 N:	(See appended table T.2)	N/A
T.3	Steady force test, 30 N:	(See appended table T.3)	N/A
		CIN CIN	(Fin

T.4 Steady T.5 Steady T.6 Enclos Fall tes Swing T.7 Drop t T.8 Stress T.9 Glass T.10 Glass T.11 Test for Torque U MECH AGAIN U.1 Genera Unstruc U.2 Test m Unstruc U.3 Protec V V.1 Acces V.1.1 Genera V.1.2 Surface probes V.1.3 Openin V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Acces	relief test:  relief test:  mpact Test:  fragmentation test  r of particles counted:  r telescoping or rod antennas  value (Nm):  ANICAL STRENGTH OF CATHODE RAY TO ST THE EFFECTS OF IMPLOSION  all  tional safeguard :  ethod and compliance for non-intrinsically tive screen  RMINATION OF ACCESSIBLE PARTS  sible parts of equipment	(See appended table T.7) (See appended table T.8) (See appended table T.8) (See appended table T.9)  JBES (CRT) AND PROTECTION	P N/A N/A N/A P P N/A
T.5 Steady T.6 Enclos Fall tes Swing T.7 Drop t T.8 Stress T.9 Glass T.10 Glass T.11 Test for Torque U MECH AGAIN U.1 Genera Instruc U.2 Test m U.3 Protec V DETER V.1 Acces V.1.1 Genera V.1.2 Surface probes V.1.3 Openin V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Acces	relief test	(See appended table T.5) (See appended table T.6)  (See appended table T.7) (See appended table T.8) (See appended table T.9)  JBES (CRT) AND PROTECTION	N/A N/A N/A N/A P P N/A
T.6 Enclos Fall tes Swing T.7 Drop t T.8 Stress T.9 Glass T.10 Glass T.11 Test for Torque U MECH AGAIN U.1 Genera Instruc U.2 Test m U.3 Protec V DETER V.1 Acces V.1.1 Genera V.1.2 Surface probes V.1.3 Openin V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Acces	test  test  test  test  relief test	(See appended table T.6)  (See appended table T.7)  (See appended table T.8)  (See appended table T.9)  JBES (CRT) AND PROTECTION	N/A N/A N/A P P N/A
T.7 Drop to T.8 Stress T.9 Glass T.10 Glass T.11 Test for Torque U MECH AGAIN U.1 General U.2 Test m U.3 Protect V DETER V.1 Access V.1.1 General V.1.2 Surface probes V.1.3 Openin V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Access	relief test	(See appended table T.7) (See appended table T.8) (See appended table T.9)  JBES (CRT) AND PROTECTION	N/A N/A P P N/A
Swing T.7 Drop t T.8 Stress T.9 Glass T.10 Glass T.11 Test for Torque U MECH AGAIN U.1 Genera U.2 Test m U.3 Protect V DETER V.1 Acces V.1.1 Genera V.1.2 Surface probes V.1.3 Openin V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Acces	relief test:  relief test:  mpact Test:  fragmentation test  r of particles counted:  r telescoping or rod antennas  value (Nm):  ANICAL STRENGTH OF CATHODE RAY TO ST THE EFFECTS OF IMPLOSION  all  tional safeguard :  ethod and compliance for non-intrinsically tive screen  RMINATION OF ACCESSIBLE PARTS  sible parts of equipment	(See appended table T.8) (See appended table T.9)  JBES (CRT) AND PROTECTION	N/A P P N/A
T.7 Drop to T.8 Stress T.9 Glass T.10 Glass T.11 Test for Torque U MECH AGAIN U.1 General U.2 Test mustruc U.2 Test mustruc U.3 Protect V DETER V.1 Access V.1.1 General V.1.2 Surface probes V.1.3 Openin V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Acces V.1.6 Termin V.2 Acces V.2 Acces V.1.6 Termin V.2 Acces V.2 Acces V.1.6 Termin V.2 Acces V.2 Control V.2 Acces V.2 Acces V.2 Control V.	relief test:  mpact Test:  fragmentation test  r of particles counted:  r telescoping or rod antennas  value (Nm):  ANICAL STRENGTH OF CATHODE RAY TO ST THE EFFECTS OF IMPLOSION  al  tional safeguard :  ethod and compliance for non-intrinsically tive screen  EMINATION OF ACCESSIBLE PARTS  sible parts of equipment	(See appended table T.8) (See appended table T.9)  JBES (CRT) AND PROTECTION	P N/A
T.8 Stress T.9 Glass T.10 Glass T.11 Test for Torque U MECH AGAIN U.1 Genera U.2 Test m U.3 Protect V DETER V.1 Acces V.1.1 Genera V.1.2 Surface probes V.1.3 Openin V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Acces	relief test: impact Test: fragmentation test r of particles counted: r telescoping or rod antennas value (Nm): ANICAL STRENGTH OF CATHODE RAY TO ST THE EFFECTS OF IMPLOSION al ional safeguard : ethod and compliance for non-intrinsically tive screen  EMINATION OF ACCESSIBLE PARTS sible parts of equipment	(See appended table T.8) (See appended table T.9)  JBES (CRT) AND PROTECTION	P N/A
T.9 Glass T.10 Glass T.11 Test for Torque U MECH AGAIN U.1 Genera Instruc U.2 Test m U.3 Protec V DETER V.1 Acces V.1.1 Genera V.1.2 Surface probes V.1.3 Openin V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Acces	iragmentation test  r of particles counted	(See appended table T.9)  JBES (CRT) AND PROTECTION	N/A
T.10 Glass  Number T.11 Test for Torque U MECH AGAIN  U.1 General Instruct  U.2 Test m  U.3 Protect  V DETER V.1 Access  V.1.1 General V.1.2 Surface probes  V.1.2 Surface probes  V.1.3 Openin  V.1.4 Plugs, V.1.5 Slot op  V.1.6 Termin  V.2 Access	r of particles counted	JBES (CRT) AND PROTECTION	N/A
Number T.11 Test for Torque U MECH AGAIN U.1 Genera U.2 Test m U.3 Protect V DETER V.1 Access V.1.1 Genera V.1.2 Surface probes V.1.3 Openin V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Access	r of particles counted	JBES (CRT) AND PROTECTION	N/A N/A N/A N/A N/A N/A N/A N/A N/A
T.11 Test for Torque U MECH AGAIN U.1 General Instruct U.2 Test m U.3 Protect V DETER V.1 Access V.1.1 General V.1.2 Surface probes V.1.3 Openin V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Access	value (Nm)	JBES (CRT) AND PROTECTION	N/A N/A N/A N/A N/A N/A N/A N/A
Torque  U MECHAGAIN  U.1 Genera  U.2 Test m  U.3 Protect  V DETER  V.1 Acces  V.1.1 Genera  V.1.2 Surface  probes  V.1.3 Openir  V.1.4 Plugs,  V.1.5 Slot op  V.1.6 Termin  V.2 Acces	value (Nm)	JBES (CRT) AND PROTECTION	N/A N/A N/A N/A N/A N/A N/A
U.1 General Instruction U.2 Test must be used by U.3 Protect V DETER V.1 Access V.1.1 General V.1.2 Surface probes V.1.3 Opening V.1.4 Plugs, V.1.5 Slot op V.1.6 Terming V.2 Access	ANICAL STRENGTH OF CATHODE RAY TO ST THE EFFECTS OF IMPLOSION  all ional safeguard : ethod and compliance for non-intrinsically tive screen  EMINATION OF ACCESSIBLE PARTS sible parts of equipment	JBES (CRT) AND PROTECTION	N/A N/A N/A N/A N/A N/A
U.1 General Instruction U.2 Test must be used by U.3 Protect V DETER V.1 Access V.1.1 General V.1.2 Surface probes V.1.3 Opening V.1.4 Plugs, V.1.5 Slot op V.1.6 Terming V.2 Access	ANICAL STRENGTH OF CATHODE RAY TO ST THE EFFECTS OF IMPLOSION  all ional safeguard : ethod and compliance for non-intrinsically tive screen  EMINATION OF ACCESSIBLE PARTS sible parts of equipment	JBES (CRT) AND PROTECTION	N/A N/A N/A N/A
U.2 Test m U.3 Protect V DETER V.1 Access V.1.1 General V.1.2 Surface probes V.1.3 Openin V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Access	ional safeguard :  ethod and compliance for non-intrinsically tive screen  MINATION OF ACCESSIBLE PARTS  sible parts of equipment	y protected CRTs	N/A N/A N/A
U.2 Test m U.3 Protect V DETER V.1 Access V.1.1 Genera V.1.2 Surface probes V.1.3 Openin V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Access	ethod and compliance for non-intrinsically tive screen MINATION OF ACCESSIBLE PARTS sible parts of equipment	y protected CRTs	N/A N/A N/A
U.3         Protect           V         DETER           V.1         Access           V.1.1         General           V.1.2         Surface probes           V.1.3         Openir           V.1.4         Plugs,           V.1.5         Slot op           V.1.6         Termin           V.2         Access	tive screen  MINATION OF ACCESSIBLE PARTS  sible parts of equipment	protected CRTs	N/A N/A
V         DETER           V.1         Access           V.1.1         General           V.1.2         Surface probes           V.1.3         Openir           V.1.4         Plugs,           V.1.5         Slot op           V.1.6         Termin           V.2         Access	MINATION OF ACCESSIBLE PARTS sible parts of equipment		N/A
V.1         Access           V.1.1         General           V.1.2         Surface probes           V.1.3         Openir           V.1.4         Plugs, V.1.5           V.1.5         Slot op           V.1.6         Termin           V.2         Access	sible parts of equipment		
V.1.1 General V.1.2 Surface probes V.1.3 Openir V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Acces			<b>.</b>
V.1.2 Surface probes V.1.3 Openin V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Acces	ıl		N/A
V.1.3 Openin V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Acces	u		N/A
V.1.4 Plugs, V.1.5 Slot op V.1.6 Termin V.2 Acces	es and openings tested with jointed test		N/A
V.1.5 Slot op V.1.6 Termin V.2 Acces	gs tested with straight unjointed test probes		N/A
V.1.6 Termin	acks, connectors tested with blunt probe		N/A
V.2 Acces	enings tested with wedge probe		N/A
	als tested with rigid test wire		N/A
V ALTER	sible part criterion		N/A
	NATIVE METHOD FOR DETERMINING CLITS CONNECTED TO AN AC MAINS NOT E		N/A
Cleara	nce:	(See appended table X)	N/A
Y CONS	TRUCTION REQUIREMENTS FOR OUTDOO	OR ENCLOSURES	N/A
Y.1 Genera	al		N/A
Y.2 Resist	ance to UV radiation		N/A
Y.3 Resist	ance to corrosion		N/A
Y.3 Resist	ance to corrosion		N/A
	(CIP)	CTATES!	(en

	IEC 62368-1	E.		
Clause	Requirement + Test	Result - Remark	Verdict	
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	To market	N/A	J.P.
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	(See Annex P.4)	N/A	
Y.5	Protection of equipment within an outdoor enclose	sure	N/A	
Y.5.1	General		N/A	
Y.5.2	Protection from moisture		N/A	
	Relevant tests of IEC 60529 or Y.5.3:		N/A	
Y.5.3	Water spray test		N/A	
Y.5.4	Protection from plants and vermin		N/A	
Y.5.5	Protection from excessive dust	TEST	N/A	
Y.5.5.1	General		N/A	
Y.5.5.2	IP5X equipment		N/A	
Y.5.5.3	IP6X equipment		N/A	
Y.6	Mechanical strength of enclosures		N/A	
Y.6.1	General		N/A	
	Impact test:	(See Table T.6)	N/A	





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

	5.2	TABLE: Classificati	on of electrical e	nergy sou	rces			Р
	Supply Voltage	Location (e.g.	Test conditions		ES Class			
	Vollage	designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	_ Class
	5.0Vdc	All circuits	Normal:	5.0Vdc		SS		
			Abnormal:		(5	SS		ES1 (declar
	ING		Single fault – SC/OC)			SS		ed)
TES	4.2Vdc	Battery output	Normal	4.2Vrms		SS	DC	
CTATES		-0	Abnormal					<b>]</b>
į		CTATE:	Single fault: battery B- and P-, SC	4.2Vrms	TEST	M <sup>C</sup> SS	DC	ES1

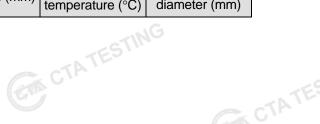
# Supplementary information:

- 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	ge measureme	nt			N/A
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comm	ents
AND THE RESERVE OF THE PERSON		TATES			NG.	
	G	C		75	STIME	
Supplemen	ntary information:					
				G VIN		

	5.4.1.10.2	TABLE: Vicat soft	ening temperature of thermo	pla	stics		N/A
STATES	Method			:	ISO 306 / B50		_
	Object/ Par	t No./Material	Manufacturer/trademark		Thickness (mm)	T softeni	ng (°C)
		CTA			CTING		
		CALL		77	53.		10.
	Supplemen	tary information:					
			No. of the state o			CTA	

5.4.1.10.3	TABLE: Ball pre	essure test of thermopla	stics			N/A
Allowed imp	ression diameter	(mm)	:	≤ 2 m	m	_
Object/Part N	No./Material	Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)	ression eter (mm)



Clause	Requirem	nent + Test				Result - F	Remark		Verdict
014400	rtoquiron	1			'	T T	Coman		Volunt
	LED!								
Suppleme	ntary inform	ation:		- 200					
A Property like			~ 6.7	ATE				TING	)
<b>5</b> 4 2 <b>5</b> 4	3 TABLE:	Minimum (	Clearance	c/Crooped	a distance		TE	5111	N/A
·		1				110	T C 2)	Danis	
Clearance creepage (cr) at/of/b	distance	U <sub>p</sub> (V)	U <sub>rms</sub> (V)	Freq <sup>1)</sup> (Hz)	Required cl (mm)	cl (mm)	E.S. <sup>2)</sup> (V)	Require cr (mn	
TING									The of the same
Suppleme	ntary inform	ation:							
1) Only fo	r frequency	above 30 kl	Hz						
2) Comple	ete Electric S	Strength vol	tage (E.S.	(V) when	5.4.2.4 applie	ed)			
	(CVII)				TATE	5			
5.4.4.2	TABLE:	Minimum d	listance th	rough ins	sulation				N/A
Distance through insulation (DTI) at/of		lation	Peak vol	tage (V)	e (V) Insulation			Required DTI Mea	
								N. T. C. O. S. H. T. C.	
Suppleme	ntary informa	ation:							
	JESTI								
CTP	1			- 1	NG				
5.4.4.9	TABLE:	Solid insul	ation at fro	eauencies	s >30 kHz			· C	N/A
Insulation				Frequency		Thickr	ness In	sulation	V <sub>PW</sub>
				(kHz)	1	d (m			(Vpk)
						CIA			
Suppleme	ntary informa	ation:							
TING									Towns.
100			. C						
5.4.9	TABLE:	Electric str	ength tes	ts					N/A
Test volta	ge applied b	etween:			oltage shape ge, Impulse, DC, etc.)		est voltag	e (V)	Breakdown Yes / No
			<del></del>	30	K G T				STI
						l			

5.5.2.2 TAB	LE: Stored discharge on capacitors	N/A
M.	TESTIN	·C
		ESTING



Voltage drop

(V)

Resistance

 $(\Omega)$ 

				IEC 62368-1			
	Clause	Requirer	ment + Test		Result - Re	mark	Verdict
	Location	41-	Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class
	2 425 1111		C	(A)		TING	5
	Suppleme	ntary infori	mation:				
	X-capacito	ors installe	d for testing:		C		
	[ ] bleedi	ing resistor	rating:				
	[ ] ICX:						
	1) Normal	operating	condition (e.g., norma	al operation, or open	fuse), SC= sh	ort circuit, OC=	open circuit
	51"						
CTIA.	5.6.6	TABLE:	Resistance of prote	ective conductors an	d termination	S	N/A
			Te	st current Du	ration	Voltage drop	Resistance

	Towns.		- Con 110	CTATE			TIN
Supplemen	tary infor	mation:					
			73 121			CAL	
						M. M	
5.7.4	TABLI	E: Unearthed acce	ssible parts				N/A
Location		Operating and	Supply	F	Parameters		ES
		fault conditions	Voltage (V)	Voltage (V <sub>rms</sub> or V <sub>pk</sub> )	Current (A <sub>rms</sub> or A <sub>pk</sub> )	Freq. (Hz)	class

Duration

(min)

Test current

(A)

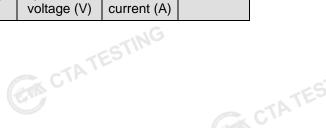
Supplementary information:

Location

Abbreviation: SC= short circuit; OC= open circuit

	5.7.5	TABLE: Earthed access	ible cond	uctive	part			N/A
	Supply v	oltage (V)						_
TAIL	Phase(s)	App	[] Single	Phase	; [ ] Three I	Phase: [ ] Delta	[] Wye	
	Power Di	stribution System:	[]TN	[ ]TT	[] IT	~1G		
	Location		Fault Cor 60990 cla		No in IEC .2.2	Touch current (mA)	Comm	ent
				(EVI)				TESTI
	Supplem	entary Information:						
							CALL	

5.8	TABLE:	TABLE: Backfeed safeguard in battery backed up supplies								
Location		Supply voltage (V)	Operating and fault condition	Time (s)	Open-circuit voltage (V)	Touch current (A)	ES Class			



		IEC 62368	-1		and the same of th	
Clause	Requirement + Test		R	esult - Remark		Verdict
	TESTIN					
Supplem	entary information:					
Abbrevia	tion: SC= short circuit, 0	C= open circuit			.NG	

	6.2.2	TABLE: Power source	circuit classificat	tions	CTA		Р
	Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class
JES	USB port						PS2
CTATL							(declare)
)	Battery cell output	Normal	2.70	6.0	16.19	5 s	PS2

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/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
CTA	9	-61	MG		
Supplement	ary information:				
		GANN .		TESTIN	

	6.2.3.2	TABLE: Determi	nation of resistive PIS	(CI)		Р
	Location		Operating and fault condition	Dissipate power (W)		rcing PIS? Yes / No
CTATES	Battery pac	k output	-TING		Ye	es(declare )
ì	Supplement	ary information:				
	Abbreviation	n: SC= short circui	t; OC= open circuit	ESTINO		
		and the same of th	CTAT			-11/
						261"

8.5.5	TABLE: High	pressure lamp	CV		N/A
Lamp mar	nufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	Particle found beyond 1 m Yes / No
	TING				
Suppleme	ntary information:				
CAL			STING		
		CTA TE		CTATESTING	3

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

S.C.	9.6	TABLE:	Tempera	ture measi	urements	for wireles	ss power t	ransmitte	rs	N/A	
	Supply vo	Itage (V)			: E				J.G.	_	
Ī	Max. trans	smit power	of transmi	tter (W)	:	TESTING				_	
	w/o receiver and direct contact									ver and at of 5 mm	
	Foreign	objects	Object (°C)	Ambient (°C)	CTA						
-55	UNO										
711	Suppleme	entary inforn	nation:								
			. TE	511							

		atai o iiio	asurem	CIIIO				Р		
9.3, B.1.5, B.2.6										
Supply volta	age (V)		:	Chargin	g mode	Discharg	ing mode	_		
Ambient ter	nperature during	test T <sub>amb</sub> (°	C):	See b	pelow	_				
Maximum n	neasured temper	ature <i>T</i> of p	oart/at:		T (	°C)		Allowed T <sub>max</sub> (°C)		
PCB near IC					48.3	36.2	51.2	130		
Battery body	у		_, _	32.2	47.2	35.7	50.7	Ref.		
Internal wire					46.4	32.9	47.9	80		
Enclosure n	ear main board (i	nside)		28.8	43.8	29.4	44.4	Ref.		
Ambient				25.0°C	Shift to 40°C	25.0°C	Shift to 40°C			
Accessible parts touch temperature Clause 9.0										
Enclosure n	ear main board (d	outside)		26.4		26.2		48		
Button		TING	3	30.4		25.9		48		
Ambient	-10		25.0°C		25.0°C					
Temperatur	e 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		
				(ETT)				TEST		
	B.2.6 Supply volta Ambient ter Maximum n  PCB near IC Battery body Internal wire Enclosure n  Ambient Accessible Enclosure n  Button Ambient Temperatur	B.2.6  Supply voltage (V)	Supply voltage (V)	B.2.6  Supply voltage (V)	B.2.6   Supply voltage (V)	B.2.6Supply voltage (V)	B.2.6Supply voltage (V)Charging modeDischargeAmbient temperature during test $T_{amb}$ (°C)See belowSee belowMaximum measured temperature $T$ of part/at: $T$ (°C)PCB near IC33.348.336.2Battery body32.247.235.7Internal wire31.446.432.9Enclosure near main board (inside)28.843.829.4Ambient25.0°CShift to 40°C25.0°CAccessible parts touch temperature Clause 9.0Enclosure near main board (outside)26.426.2Button30.425.9Ambient25.0°C25.0°CTemperature T of winding: $t_1$ (°C) $R_1$ ( $\Omega$ ) $t_2$ (°C) $R_2$ ( $\Omega$ )T (°C)	B.2.6Supply voltage (V)		

- Note 1: Tma should be considered as directed by appliable requirement.
- Note 2: Toch Temperatures, this is included in assessment of Toch Temperatures(Clause 9).
- Note 3: The maximum ambient temperature specified by manufacturer is 40°C.



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

B.2.5		TABL	_E: Inpι	ıt test						Р
U (V)	Hz		I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condit	ion/status
5Vdc			0.46	(CIN)	TATE.		CT	TESTI	with er battery	ng only npty , battery t: 0.447A
4.2Vd c		C	0.227		1				Discha with fu charge	

The EUT can't normal working when charging the battery.

	B.3, B.4	TAE	BLE: Abnorma	l operating	and fault	condition t	ests		Р
	Ambient te	mpera	ature T <sub>amb</sub> (°C)					24.0-24.6	_
	Power sou	rce fo	r EUT: Manufac	turer, mode	l/type, out	putrating:			_
	Componen	t No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observati	on
	Speaker	-c	(INGSC	4.2	10mins			Unit without voice no damage	no hazard
	B- to P- on battery protection board		SC	5	7h TEST	NG-		Unit normal workir damage, no hazar	
	B- to P- on battery protection board		SC	5	10mins		C C	Unit normal workir damage, no hazar	
	Battery pac output P+ t		SC	5	10mins			Unit shut dow, bat leak, no explosion	
E	Battery cell to B+	IB-	SC	5	10mins			Unit shut dow, bat leak, no explosion	
	10 B+	. 4 !	-f	47112				leak, no explosion	, no me

## Supplementary information:

- 1. SC Short Circuit; OC Open Circuit; OL- Overload;
- 2. No ignition during and after all tests;
- 3. Output voltage comply with ES1 during and after all tests.
- 4. NB no indication of dielectric breakdown; NC Cheesecloth remained intact; NT Tissue paper remained intact.
- 5. Output circuit is under ES1 limit.

M.3 T.	ABLE: Protection circuits for batteries provided within the equipment	Р
CIR	CTATESTING CTATESTING	



1			IEC 623	368-1			To any Tribe			
Clause	Requirement	+ Test			Result -	Remark		Verdict		
Is it possible	to install the	battery in a reve	erse polarity	position?	:			_		
				Ch	arging	ging				
Equipment S	Specification		Voltage (V)				Current (A)			
		(31A)	5Vdc			. 1	0.5			
			Battery spe							
		Non-rechargea	ble batteries		Rechargeable batteries					
Manufact	uror/typo	Discharging current (A)	Jnintentional charging current (A)	Voltage (	Charging (V) Cur	rent (A)	Discharging current (A)	Reverse charging current (A)		
Henan Wanli Energy Co., 1 702535	New	TESTING		4.2		0.6	0.6			
Note: The tes	sts of M.3.2 a	re applicable onl	y when above	e appropria	ate data i	s not avai	lable.			
Specified bat	tery tempera	ature (°C)			:	0-	45			
Component No.	Fault condition	Charge/ discharge mod	Test le time	Temp. (°C)	Current (A)	Voltage (V)	Obse	ervation		
Battery	B- and P- SC (Off mode)	Charge mode	9 7h	Battery: 33.3°C Ambient : 24.3°C	0.447A	4.2V max	Normal op damage, r NL, NS, N	peration, no no hazard.		
Speaker	Non- clipped	Discharge mod	de 50mins	Battery: 35.2°C Ambient : 24.3°C	0.582A	4.2V max	Normal op damage, r NL, NS, N			
Supplementary informatio		n:	,	1						
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.										

no explosion; NF= no emission of flame or expulsion of molten metal.									
ING							C WIL		
M.4.2	TABLE: battery		feguards for	equipment co	ontaining a	secondary lithium	Р		
Maximum	specified o	charging voltag	e (V)		: 4.2	_			
Maximum	specified o	charging currer	nt (A)		: 0.6		_		
Highest sp	pecified cha	arging tempera	: 45						
Lowest sp	ecified cha	arging temperat	: 0	0					
Battery		Operating Measurement				Observation			
manutactu	irer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)				
		Normal operation	4.2	0.447	Battery: 33.2°C, Ambient: 24.5°C	damage, no hazard,	no fire,		
		(e	CTA		GIA CT	ATESTING			
	M.4.2  Maximum  Maximum  Highest sp  Lowest sp  Battery  manufactu  Henan Wa Energy Co	M.4.2 TABLE battery  Maximum specified of Highest specified charactery  Lowest specified charactery  manufacturer/type  Henan Wanli New Energy Co., LTD /	M.4.2 TABLE: Charging sa battery  Maximum specified charging voltage  Maximum specified charging currer  Highest specified charging temperat  Lowest specified charging temperat  Battery Operating and fault condition  Henan Wanli New Energy Co., LTD / Operation	M.4.2 TABLE: Charging safeguards for battery  Maximum specified charging voltage (V)	M.4.2 TABLE: Charging safeguards for equipment cobattery  Maximum specified charging voltage (V)	Maximum specified charging voltage (V)	M.4.2 TABLE: Charging safeguards for equipment containing a secondary lithium battery  Maximum specified charging voltage (V)		

			IE	C 62368-1				
Clause R	Requirement + Test				Result - Re	emark	Verdict	
Henan Wanli I Energy Co., L 702535		Abnormal: battery body at 0°C	4.2	o STING	battery body: 0°C	Unit stops charge, hazards	no	
Henan Wanli I Energy Co., L 702535		Abnormal: battery body at 45°C	4.2	0	battery body: 45.0°C	Unit stops charge, hazards	no	
Supplementary	y inform	nation:						
Abbreviation:	SC= sh	ort circuit; OC=	•		•	ed charging voltage; perature; LSCT= lov		

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

Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)									
Output Circuit	Condition	11 ()()	Time (a)	I <sub>sc</sub> (A)		S ('	VA)			
	Condition	U <sub>oc</sub> (V)	Time (s)	Meas.	Limit	Meas.	Limit			
							FESTIN			
			723 00 WHILE			CT	1			
						CVI				
Suppleme	entary Information:		ı		I					
	TING									

	- CIA'			-71	ДG				1	7
	.2, T.3, .4, T.5	TABLE	: Steady force test	TATES	. "			NG	Р	
L	ocation/Par	t	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Obse	rvation	
EST	inclosure To	op	Plastic	1.5		100	5	Enclosur remained no crack develope	d intact, opening	CT
E	inclosure Bo	ottom	Plastic	1.5		100	5	Enclosui remaine no crack develope	d intact, /opening	
E	inclosure Si	de	Plastic	1.5	CTATI	100	5	Enclosui remaine no crack develope	d intact, /opening	G
S	Supplementa	ary infor	mation:			1		<u>Irace</u>		

T.6, T.9	TABLE: Impact test		N/A
2 miles	CTATESII	-ING	
		TATESTI	
		CIN CV	

		IEC	62368-1			
Clause	Requirement	+ Test		Result - Rer	Verdict	
Location/Pa	art	Material	Thickness (mm)	Height (mm)	Observatio	n
CAN.		TES	1			
23 WALLIAM		CIA			STING	
				1110	ATES	
Supplemen	ntary information	า:				
				Pourse Marie		

	-ING								
	T.7	TABLE: Drop test	. C.				Р		
	Location/Part		Material	Thickness Height (mm)		Observation			
	Enclosure T	op	Plastic	1.5	1000	Enclosure remaine no crack/opening d	,		
	Enclosure B	ottom	Plastic	1.5	1000	Enclosure remaine no crack/opening d			
	Enclosure S	ide	Plastic	1.5	1000	Enclosure remaine no crack/opening d			
	Supplement	ary information:							
		STING							

T.8	TABLE	: Stress relief to	est (ES	/11/			Р
Location/l	Part	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Obser	vation
Enclosure	•	Plastic	1.5	70	7	Enclosure intact, no crack/oper developed	ning
Suppleme	entary infor	mation:					
		-1	NG				
		LED,					

X	TABLE: Alte	rnative method for determining	minimum clearance	es distances	N/A
Clearan betweer	ce distanced	Peak of working voltage (V)	Required cl (mm)	Measure (mm)	
				ATA	TES
Supplen	nentary information	ո:			
				12 mar 2011 150	
CT	ATESTING	CACTATESTING		STING	



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

	4.1.2 TAB	LE: Critical compo	nents informati	on			Р
	Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard		k(s) of formity <sup>1)</sup>
	Plastic enclosure	SABIC INNOVATIVE PLASTICS B V	C6600(GG)(X) (VS)	V-0, 80°C, Thickness:1.5mm	UL94	UL E	E45329
	PCB	GUANGZHOU HONGGAO TECHNOLOGY CO.,LTD	HG-1	V-0, 130 °C	UL 796	UL E	E362830
CTATES	Rechargeable Li-ion Battery	Henan Wanli New Energy Co., LTD	702535	3.7V, 600mAh,	IEC/EN62133-2	no.	Su report 24KU001 -01
	LED	Tiancheng Hi- Tech (Shenzhen) Co., Ltd.	5018	3V, 0.18W	IEC62471	no.	tek report X24F071 42N
	Supplementary int	iormation					

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

	C	IEC 62368-1		
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)	Р
G		Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018.	
		Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".	
	CTA	Add the following annexes:	Р
	A TANKS	Annex ZA (normative)  Normative references to international  publications  Normative references to international  with their corresponding European publications	
		Annex ZB (normative) Special national conditions	
		Annex ZC (informative) A-deviations	
		Annex ZD (informative) IEC and CENELEC code designations for flexible cords	
-6	1	Modification to Clause 3 .	
-TATES	3.3.19	Sound exposure	N/A
0.1		Replace 3.3.19 of IEC 62368-1 with the following definitions:	
	3.3.19.1	momentary exposure level, MEL	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.	TESTIN
		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.	
	CTA	restinc	
		CTATESTING	





	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
3.3.19.3	Tanadaman F		
3.3.19.3	sound exposure, <i>E</i>		N/A
3 23 25 25 25 25 25 25 25 25 25 25 25 25 25	A-weighted sound pressure (p) squared and integrated over a stated period of time, T	TESTING	
	Note 1 to entry: The SI unit is $Pa^2$ s. $T$	CTA TESTING	
G	$E = \int_{\Omega} p(t)^2 dt$		
3.3.19.4	sound exposure level, <i>SEL</i>		N 1 / A
3.3.19.4	logarithmic measure of sound exposure relative to a reference value, <i>Eo</i> , typically the 1 kHz	ESTING	N/A
	threshold of hearing in humans.  Note 1 to entry: SEL is measured as A-weighted levels in dB.		
	GRI 401 (E)	CT	7 1 1
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$	CT CT	
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.		
3.3.19.5	digital signal level relative to full scale, dBFS		N/A
	levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak value is positive digital full scale, leaving the code corresponding to negative digital full scale unused	CTA TESTING	
2	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.		
2	Modification to Clause 10		
10.6	Safeguards against acoustic energy sources	. C.	N/A
	Replace 10.6 of IEC 62368-1 with the following:	STING	
10.6.1.1	Introduction		N/A
	Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that:	GIA CT	TES
ATO			



	IEC 62368-1	T	
Clause	Requirement + Test	Result - Remark	Verdict
-4	TE	1	
	earphones that can be worn in or on or around the ears; and  – has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.).	CTA TESTING	÷
	EXAMPLES Portable CD players, MP3 audio players, Mobile Phones with MP3 type features, PDAs or similar equipment.		
	Personal music players shall comply with the		22 110
	requirements of either 10.6.2 or 10.6.3.  NOTE 1 Protection against acoustic energy sources from	a)G	
	telecom applications is referenced to ITU-T P.360.  NOTE 2 It is the intention of the Committee to allow the	ESTING	
	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.		TATESTIN
	Listening devices sold separately shall comply with the requirements of 10.6.6.  These requirements are valid for music or video		
CTA	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.	CTA TESTING	
	<ul> <li>hearing aid equipment and other devices for assistive listening;</li> </ul>	CW CII	22, 140
	<ul> <li>the following type of analogue personal music players:</li> <li>long distance radio receiver (for example, a</li> </ul>		CVI
	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.	ESTING	ESTIN
	<ul> <li>a player while connected to an external amplifier that does not allow the user to walk around while in use.</li> </ul>	CON C	TATESTIN
at A	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.		
	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	TESTING	
		CTATES CTATES	





Classes	Danish Tark	Decult Demonds	Manaliat
Clause	Requirement + Test	Result - Remark	Verdict
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz		N/A
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	CTA TESTING	
ING	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.		(En
10.6.2	Classification of devices without the capacity to	estimate sound dose	N/A
10.6.2.1	General		N/A
	This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3.	CT CT	
CTA	For classifying the acoustic output $L_{\text{Aeq}}, \tau$ , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.	TNG	
(6)	For music where the average sound pressure (long term $L_{Aeq, \tau}$ ) 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.	CTATESIN	(En
ING	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{Aeq,7}$ ) 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	STING	
	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.	CCI	TES
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)		N/A
	RS1 is a class 1 acoustic energy source that does not exceed the following:  – for equipment provided as a package (player with its listening device), and with a proprietary		
CTA	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, $\tau$ acoustic	STING	
		CTATES CTATES	





Clause	Requirement + Test	Result - Remark	Verdict
0.0.0.0	129	11000.11	7 0 1 0 1 0 1
CIN	output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general	CTA TESTING	
	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)	, Ca	N/A
	RS2 is a class 2 acoustic energy source that does	ESTING	
	not exceed the following:  – for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the $L$ Aeq, $\tau$	CT CT	TESTIN
	acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1.		
CTA	— for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme	CTATESTING	
	simulation noise" as described in EN 50332-1.	(CAL)	
10.6.2.4	RS3 limits	A Constant	N/A
	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.		
10.6.3	Classification of devices (new)		N/A
10.6.3.1	General	STING	N/A
	Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	CT CTP	TESTIN
10.6.3.2	RS1 limits (new)		N/A
	RS1 is a class 1 acoustic energy source that does not exceed the following:  – for equipment provided as a package (player with its listening device), and with a proprietary		
	connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the $L$ Aeq, $\tau$ acoustic	TATESTING	
		CIL	





Clause	Requirement + Test	Result - Remark	Verdict
Jiaasc	requirement i rest	Result Remark	VCIGICE
- CIA	output shall be ≤ 80 dB when playing the fixed		
	"programme simulation noise" described in EN		
	50332-1.	a)G	
	for equipment provided with a standardized	STIN	
	connector (for example, a 3,5 phone jack) that	TES	
	allows connection to a listening device for general	CIL	
	use, the unweighted r.m.s. output voltage shall be	CTA TESTING	
	≤ 15 mV (analogue interface) or -30 dBFS (digital	The second second	(5.110
	interface) when playing the fixed "programme		
	simulation noise" described in EN 50332-1.		The second second
10.6.3.3	RS2 limits (new)		N/A
	-ING		
	RS2 is a class 2 acoustic energy source that does		
	not exceed the following:	NG.	
	- for equipment provided as a package (player with	GTIN	
	its listening device), and with a proprietary		
	connector between the player and its listening		711
	device, or where the combination of player and		TES
	listening device is known by other means such as	CT.	
	setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall	CT CT	
	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		
CI	use, the unweighted r.m.s. output level, integrated		
	over one week, as described in EN50332-3, shall	.6	
	be ≤ 15 mV (analogue interface) or -30 dBFS	CTATESTING	
	(digital interface) when playing the fixed	TES	
	"programme simulation noise" described in EN	CTA.	
10.6.4	50332-1.		N1/A
	Requirements for maximum sound exposure		N/A
10.6.4.1	Measurement methods		N/A
	All values controls about he time of the receiver		They be well the
	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.	ING	
10.6.4.2	Protection of persons	:51"	N/A
	TAI		
	Except as given below, protection requirements for		ESTIN
	parts accessible to ordinary persons, instructed	_ </td <td>17</td>	17
	persons and skilled persons are given in 4.3.	CV	
	NOTE 1 Valuma control is not considered a cofe-	GM CTI	
	NOTE 1 Volume control is not considered a <b>safeguard</b> .		
		i	
	Between RS2 and an <b>ordinary person</b> , the <b>basic</b>		
	Between RS2 and an <b>ordinary person</b> , the <b>basic safeguard</b> may be replaced by an <b>instructional</b>		
	safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except		
	safeguard may be replaced by an instructional		
K CTAT	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		
CTAT	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.	-ING	
CTAT	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	ESTING	
CTAT	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.	CTATESTING	
CTAT	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.	CTA TESTING	(FIR





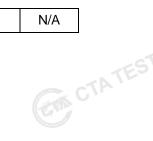
Г	00604	C	
Clause	IEC 62368-1  Requirement + Test	Result - Remark	Verdict
- C.T.P	given through the equipment display during use.		
	TES		
	The elements of the <b>instructional safeguard</b> shall be as follows:	CTA TESTING	
	- element 1a: the symbol (2011-01), IEC 60417-6044	CW C.	The last last
JAG	<ul><li>– element 2: "High sound pressure" or equivalent wording</li></ul>		-310
ING	<ul> <li>element 3: "Hearing damage risk" or equivalent wording</li> </ul>		(2) min
	element 4: "Do not listen at high volume levels for long periods." or equivalent wording	16	
	An equipment safeguard shall prevent exposure	ESTING	
	of an <b>ordinary person</b> to an RS2 source without intentional physical action from the <b>ordinary</b>		-6711
	<b>person</b> and shall automatically return to an output level not exceeding what is specified for an RS1		TATES
	source when the power is switched off.	(EW)	TATESTIN
	The equipment shall provide a means to actively		
	inform the user of the increased sound level when the equipment is operated with an output		
-TA	exceeding RS1. Any means used shall be		
C	acknowledged by the user before activating a mode of operation which allows for an output		
THE STATE OF THE S	exceeding RS1. The acknowledgement does not	CTING	
	need to be repeated more than once every 20 h of cumulative listening time.	TATES	
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.	CTA TESTING	Co
ING	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.		CIN
ING	A <b>skilled person</b> shall not be unintentionally exposed to RS3.		
10.6.5	Requirements for dose-based systems	CING	N/A
10.6.5.1	General requirements		N/A
	Personal music players shall give the warnings as provided below when tested according to EN		TESTI
	50332-3, using the limits from this clause.	Cas	TATESTIN
	The manufacturer may offer optional settings to	C.	
	allow the users to modify when and how they wish to receive the notifications and warnings to		
d	promote a better user experience without defeating		
CTA	the safeguards. This allows the users to be informed in a method that best meets their physical		
WILL.	capabilities and device usage needs. If such		
	optional settings are offered, an administrator (for example, parental restrictions,	TESTING	
		CTA	(Em



	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
Car C	business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration.	STING		•
ATESTING	The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.	CTATESTING CTATESTING	(cm	CTA
10.6.5	2 Dose-based warning and requirements		N/A	
	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1.	ESTING	TESTIN	
	The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.			
10.6.5	.3 Exposure-based requirements		N/A	
Carrier C	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.	CTA TESTING		
TESTING	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.		Car.	
	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.	ESTING CT	TESTIN	
CC	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.			

10.6.6	Requirements for listening devices (headp	hones, earphones, etc.)	N/A
		CTATES	·





		IEC 62368-1	ı	
	Clause	Requirement + Test	Result - Remark	Verdict
	10.6.6.1	Corded listening devices with analogue input		N/A
	5	With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of		
CTATES	TING	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.		En.
		NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	LING	
	10.6.6.2	Corded listening devices with digital input  With any playing device playing the fixed  "programme simulation noise" described in EN	5	N/A
	= CTA	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 $L_{Aeq,\tau}$ acoustic output of the listening device shall be $\leq$ 100 dB with an input signal of -10 dBFS.	GIA CTA	
	10.6.6.3	Cordless listening devices	TING	N/A
		In cordless mode,  – with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and	CTA TESTING	
CTATES	TING	<ul> <li>respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and</li> <li>with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set</li> </ul>		
		to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, \tau acoustic output of the listening device shall be < 100 dB with	5	

output of the listening device shall be ≤ 100 dB with

Measurements shall be made in accordance with

Modification to the whole document

an input signal of -10 dBFS.

EN 50332-2 as applicable.

**Measurement method** 

10.6.6.4

CTA TESTI

3



CTA CTA

N/A

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

		quirement +			•	esuit - Rema		veru	
CTAT				.6.	LIG.				
G.	De lis		"country" note	es in the refe	erence docum	ent accordino	g to the following	g N/A	A
		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		
. C.		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		C
ESTING		5.4.2.3.2.4 Table 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note		uautunit.
		5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note		
	XXXX	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	-51	ING
		5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	TES	
		8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2		
-TAT	E	<del>10.6.1</del>	Note 3	F.3.3.6	Note 3	Y.4.1	Note		
C.		Y.4.5	Note						
4			// A Y	1		<u>'</u>			
1			to Clause 1		T.				
NG.	NO ele	<b>dd</b> the follov OTE Z1 The use ectronic equipm 11/65/EU.	e of certain subst	ances in electr vithin the EU: s	ical and see Directive	CVA		P	C
5	M	odification	to 4.Z1						
		- TA	to 4.Z1		CTATES	NG			_ <del>_</del>



	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdic
4.Z1	Add the following new subclause after 4.9:		N/A
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):	CTATESTING	N/A
TING	<ul> <li>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;</li> <li>b) for components in series with the mains input to</li> </ul>		
	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;	STING	
	c) it is permitted for <b>pluggable equipment type B</b> or <b>permanently connected equipment</b> , 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	CTA CTA	ESI
CTAT	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for <b>pluggable equipment type A</b> the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	TESTING	
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	C.	N/A
ING	circuit is in addition given in EN 50491-3:2009.		Parent
7 10.2.1	Modification to 10.2.1		
1311 / 1	Add the following to c) and d) in table 39:		N/A
10.2.1		and the second s	
8	For additional requirements, see 10.5.1.  Modification to 10.5.1	LING	



To.5.1  Requirement + Test  Result - Remark  10.5.1  Add the following after the first paragraph:  For RS 1 compliance is checked by measurement under the following conditions:  In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.  NOTE 21 Soldered joints and paint lockings are examples of adequate locking.  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.  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.  For RS1, the dose-rate shall not exceed 1 μSv/h taking account of the background level.  NOTE 22 These values appear in Directive 96/29/Euratom of 13 May 1996.		IEC 62368-1	
For RS 1 compliance is checked by measurement under the following conditions:  In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.  NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.  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.  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.  For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.  NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	Verdict	equirement + Test	Clause
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May 1996.		Moreover, the measurement shall be made under ault conditions causing an increase of the high oltage, provided an intelligible picture is naintained for 1 h, at the end of which the neasurement is made.	CTA
May 1996.	ESTING	aking account of the background level.	
9 Modification to G.7.1			
		lodification to G.7.1	9
Add the following note:  NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.  Added.	N/A	OTE Z1 The harmonized code designations corresponding to	G.7.1
and 120 oblid ypos and grown man, 22.		TING STATE OF THE	

10	Modification to Biblio	graphy	
		CTA TESTING	CTATESTIN



Clause	Requirement + Test		Result - Remark	Verdict
110	A del de e fellessia e e e		J.	
W.	Add the following no	tes for the standards indicated	a:	N/A
	150 00400 0	NOTE Hammaniand on EN 801	100.0	
	IEC 60130-9 IEC 60269-2	NOTE Harmonized as EN 601 NOTE Harmonized as HD 602		
	IEC 60309-1	NOTE Harmonized as EN 603		
	IEC 60364	NOTE some parts harmonized		
	IEC 60601-2-4	NOTE Some parts narmonized NOTE Harmonized as EN 606		
	IEC 60664-5	NOTE Harmonized as EN 606		Spice tto
	IEC 61032:1997	NOTE Harmonized as EN 610		EW.
	IEC 61508-1	NOTE Harmonized as EN 615	•	10 10 to 10
ING	IEC 61558-2-1	NOTE Harmonized as EN 615		
	IEC 61558-2-4	NOTE Harmonized as EN 615		
	IEC 61558-2-6	NOTE Harmonized as EN 615		
	IEC 61643-1	NOTE Harmonized as EN 616		
	IEC 61643-21	NOTE Harmonized as EN 616		
	IEC 61643-311	NOTE Harmonized as EN 616	643-311.	100
	IEC 61643-321	NOTE Harmonized as EN 616	643-321.	TESTIN
	IEC 61643-331	NOTE Harmonized as EN 616	643-331.	1
11	ADDITION OF ANNU	TVEC	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	ANNEY 3D SPECIA		/FAI)	P
ZB		L NATIONAL CONDITIONS  Norway and Sweden	(EN)	
4.1.15	Denniark, Finiana, F	torway and oweden		N/A
		oclause the following is		
	added:	TES!"		
		quipment type A intended	CTA TESTING	
	for connection to other	ty relies on connection to	TEST!	
	reliable earthing or if		CTAIL	
		en the network terminals	Carlo	
	and accessible parts	s, have a marking stating		
		hall be connected to an		A CONTRACTOR OF THE PARTY OF TH
	earthed <b>mains</b> socke	et-outlet.		
				73 03.0
	be as follows:	ne applicable countries shall		
	In <b>Denmark</b> : "Appara	atets stikprop skal tilsluttes	a)G	
		ord som giver forbindelse til	<b>TESTING</b>	
	stikproppens jord."	- 1.	(ES	
		liitettävä suojakoskettimilla		TIN
	varustettuun pistoras			LED.
	In <b>Norway</b> : "Apparate	et må tilkoples jordet	CTP	
	stikkontakt"		CTA	
		en skall anslutas till jordat		
	uttag"			1
	uttag"			l
	CTING			
- ~ A	CTING	G		-1
CTA	CTING	CTATESTING		



Clause	Requirement + Test	Result - Remark	Verdict
-1	LES.	1	I.
4.7.3	United Kingdom		N/A
	T. d	16	
	To the end of the subclause the following is added:	STING	
	The torque test is performed using a socket-outlet	TATES	
	complying with BS 1363, and the plug part shall be	CIP CIP	
	assessed to the relevant clauses of BS 1363. Also		
5.2.2.2	see Annex G.4.2 of this annex  Denmark		N/A
	Definition		A D WAS THE
/ 1.	After the 2nd paragraph add the following:		
	A version (modeling of the soul) for high touch		
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the		
	limits of 3,5 mA a.c. or 10 mA d.c.	STING	
5.4.11.1	Finland and Sweden	F.3.	N/A
and	To the and of the cubelouse the fellousing is added.		GTIN
Annex G	To the end of the subclause the following is added:		VIES.
	For separation of the telecommunication network	CIA CT	
	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		
CTA	two layers of thin sheet material, each of which shall pass the electric strength test below, or		
	one layer having a distance through insulation of	TING	
	at least 0,4 mm, which shall pass the electric	TESI	
	strength test below.	CTA.	
	If this insulation forms part of a semiconductor	CALL STATE	
	component (e.g. an optocoupler), there is no	Vo anti-	Silter Ltd
	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		
	the compliance clause below and in addition	CTING	
	passes the tests and inspection criteria of 5.4.8	5,	
	with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be		GTIN
	performed using 1,5 kV),		ATES
		C	ATESTIN
	and		
	is subject to routine testing for electric strength		
	during manufacturing, using a test voltage of 1,5	<b>;</b>	
	kV.		
CIL	It is permitted to bridge this insulation with a		
	capacitor complying with EN 60384-14:2005,		
	subclass Y2.	ESTING	
		CIPIL	
		Cook U.	





	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
CTA	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	TING	3
	<ul> <li>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;</li> </ul>	CTATESTING	(En
TING	<ul> <li>the additional testing shall be performed on all the test specimens as described in EN 60384- 14;</li> </ul>		
	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.	ESTING	-10
5.5.2.1	Norway		N/A
	After the 3rd paragraph the following is added:		N/A
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	Con	
5.5.6	Finland, Norway and Sweden		N/A
CTA	To the end of the subclause the following is added:		
	Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable equipment type A</b> shall comply with G.10.1 and the test of G.10.2.	CTATESTING	3
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	-	(cm)
	equipment type A shall be an integral part of the equipment.	STING	
	Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.		TESTIN
5.6.4.2.1	Ireland and United Kingdom		N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:  – the <b>protective current rating</b> is taken to be 13 A, this being the largest rating of fuse used in the <b>mains</b> plug.		
TAN CA	TESTIN		
	CTA TESTITO	CTATESTING	





Clause	Requirement + Test	Result - Remark	Verdict
ATA	TES		
5.6.4.2.1	France		N/A
	After the indent for <b>pluggable equipment type A</b> ,	ING	
	the following is added:	TESTIN	
	- in certain cases, the <b>protective current rating</b> of		
	the circuit supplied from the mains is taken as 20 A instead of 16 A.	CAN.	
5.6.5.1	To the second paragraph the following is added:		N/A
	The range of conductor sizes of flexible cords to be		The state of the s
	accepted by terminals for equipment with a rated		
	current over 10 A and up to and including 13 A is: 1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.		
5.6.8	Norway	. C.	N/A
3.0.0	CIL	ETING	IN/A
	To the end of the subclause the following is added:		
	Equipment connected with an earthed mains plug is classified as <b>class I equipment</b> . See the Norway	5	STI
	marking requirement in 4.1.15. The symbol IEC		ATES
	60417-6092, as specified in F.3.6.2, is accepted.	C	1
5.7.6	Denmark		N/A
	To the end of the subclause the following is added:		
	The installation instruction shall be affixed to the		
CIA	equipment if the protective conductor current		
	exceeds the limits of 3,5 mA a.c. or 10 mA d.c.  Denmark		- A1/A
5.7.6.2	Defillark	CTING	N/A
	To the end of the subclause the following is added:	TES	
	The warning (marking safeguard) for high touch	CIL	
	current is required if the touch current or the protective current exceed the limits of 3,5 mA.	CVI	
5.7.7.1	Norway and Sweden	CD1130	N/A
5.7.7.1	To the end of the subclause the following is added:		No usurus
	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.	1.G	
	Therefore the protective earthing of the building	STING	
	installation needs to be isolated from the screen of		
	a cable distribution system.		ESTIN
	It is however accepted to provide the insulation		ATESTIN
	external to the equipment by an adapter or an	CAN.	
	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		
CIM	language respectively, depending on in what		
	country the equipment is intended to be used in:	.164	
A11 P	"Apparatus connected to the protective earthing of	TESTING	
		CTATES!!	





Report No.

the building installation through the mains connection or through other apparatus with a connection to protective earthing — and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"  NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shell provide electrical insulation below 5 Mtz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.  Translation to Norwegian (the Swedish text will also be accepted in Norway):  "Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtlikoplet utstyr — og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare.  For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."  Translation to Swedish: "Apparater som är kopplad till ksyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".  8.5.4.2.3  United Kingdom  Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:  An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	Clause	Requirement + Test	Result - Remark	Verdict
connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)*  NOTE In Norway, due to regulation for 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):  "Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare.  For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."  Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten 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 kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät tan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät tan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät tan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten och kabel-TV nätet."  N/A	-10	Ea.		I
of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.  Translation to Norwegian (the Swedish text will also be accepted in Norway):  "Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."  Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."  8.5.4.2.3  United Kingdom  N/A  Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:  An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is	ING CHA	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-	CTATESTING	
be accepted in Norway):  "Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare.  For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."  Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".  8.5.4.2.3  United Kingdom  N/A  Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:  An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where items is right of negative in the service is right of negative in the ser		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		
nett, kan forarsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."  Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".  8.5.4.2.3  United Kingdom  N/A  Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:  An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is				STI
Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".  8.5.4.2.3  United Kingdom  Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:  An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is		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	(En)	TATES
"Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".  8.5.4.2.3 United Kingdom  N/A  Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:  An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is	CTA	nettet."		
Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:  An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is	<i>'</i>	"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.".	CTATESTING	Con Control
paragraph:  An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is	8.5.4.2.3	United Kingdom		N/A
		paragraph:  An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is	ESTING	710
TES!				TATES
required where there is a risk of personal injury.				



The following is applicable:  To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment, tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment, until the requirements of Annexes B.3.1 and B.4 are met		IEC 62368-1	T	
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5a or DK 1-7a  Justification: Heavy Current Regulations, Section 6c			The state of the s	
Heavy Current Regulations, Section 6c				
Heavy Current Regulations, Section 6c		STING		
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		IEC 62368-1		
	Clause	Requirement + Test	Result - Remark	Verdict
	G.4.2	United Kingdom		N/A
	33000	To the end of the subclause the following is added:	CTATESTING	
		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	CTA	
	TING	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.		E VI
CTA	G.7.1	United Kingdom		N/A
		To the first paragraph the following is added:	CTING	
		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 plus' in appearance with the Pluse and Sockets at a plus' in appearance with the Pluse and Sockets at a plus' in appearance with the Pluse and Sockets at a plus' in appearance with the Pluse and Sockets at a plus at a	CTA.	ESTIN
		plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	C.M.	
	- CIA	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		
	G.7.1	Ireland	16	N/A
	and the second	To the first paragraph the following is added:	CTATESTING	
		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	CV CV	Time to
CTATES	TING	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		2200
	G.7.2	Ireland and United Kingdom		N/A
		To the first paragraph the following is added:	STING	
		A power supply cord with a conductor of 1,25 mm <sup>2</sup> is allowed for equipment which is rated over 10 A and up to and including 13 A.		ESTIN



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

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
10.5.2	Germany	TING	N/A
	The following requirement applies:	TATEST	
	For the operation of any cathode ray tube intended	CI.	
	for the display of visual images operating at an	22000	To tid
· C	acceleration voltage exceeding 40 kV, authorization is required, or application of type		CVA
TING	approval (Bauartzulassung) and marking.		Thursday of the same of the sa
	Justification:		
	German ministerial decree against ionizing		
	radiation (Röntgenverordnung), in force since	ING	
	2002-07-01, implementing the European Directive	57"	
	96/29/EURATOM.		MITTER
	NOTE Contact address:		TES!
	Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig.	CTA	
	Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	(EVA)	

ZD	IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS (EN)	
- cī	ATESI	
	CTATES	



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

	Type of flexible cord	Code de	esignations	7 N/A
To the state of th		IEC	CENELEC	-
	PVC insulated cords			-
	Flat twin tinsel cord	60227 IEC 41	H03VH-Y	
ING	Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	GW.
STING	Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	
	Rubber insulated cords			-
	Braided cord	60245 IEC 51	H03RT-F	
	Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	STIN
	Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	TES
	Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
	Cords having high flexibility			-
	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	
CTATE	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 RV4-H	
GIA	Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	
	Cords insulated and sheathed with halogen- free thermoplastic compounds			
	Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F	(CIT)
STING	Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F	CVI
				_ ا
	CTATESTING			



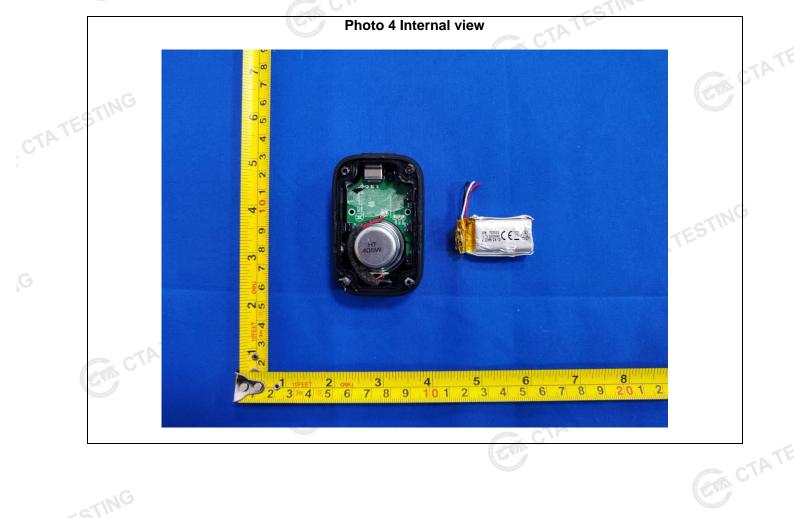
CTATESTING



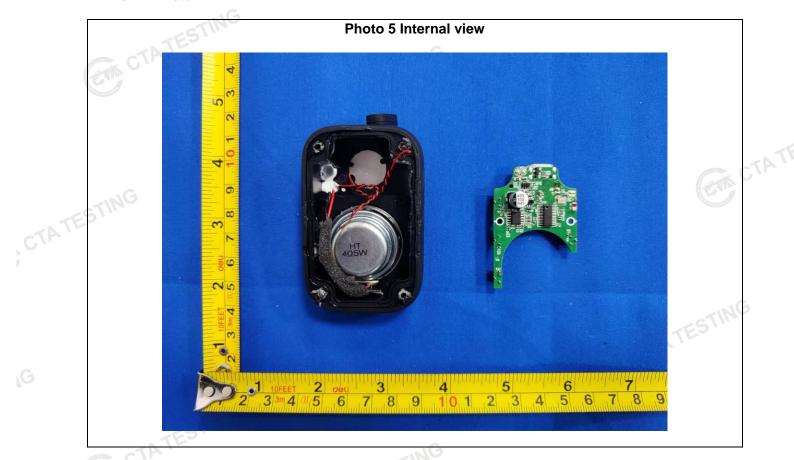


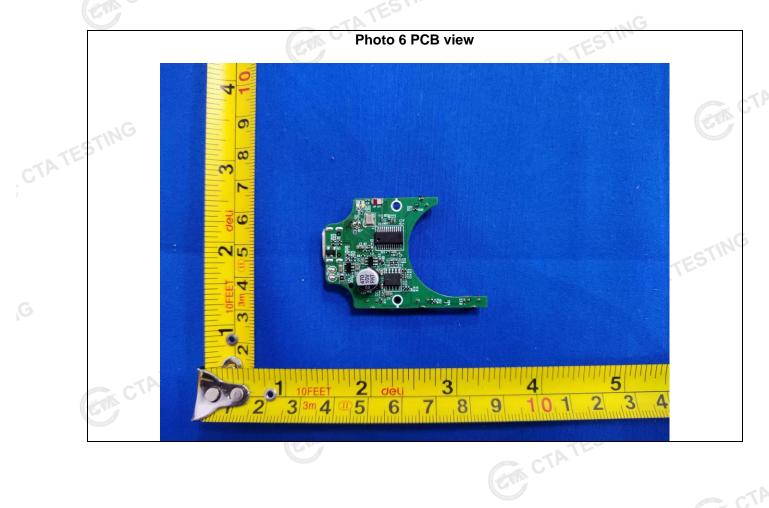




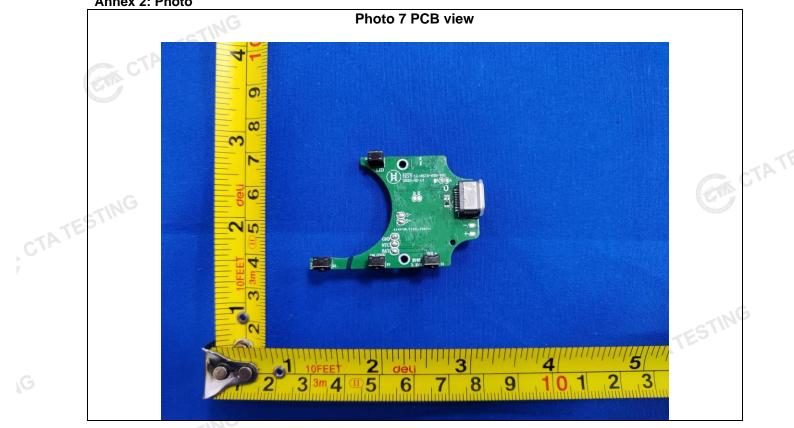


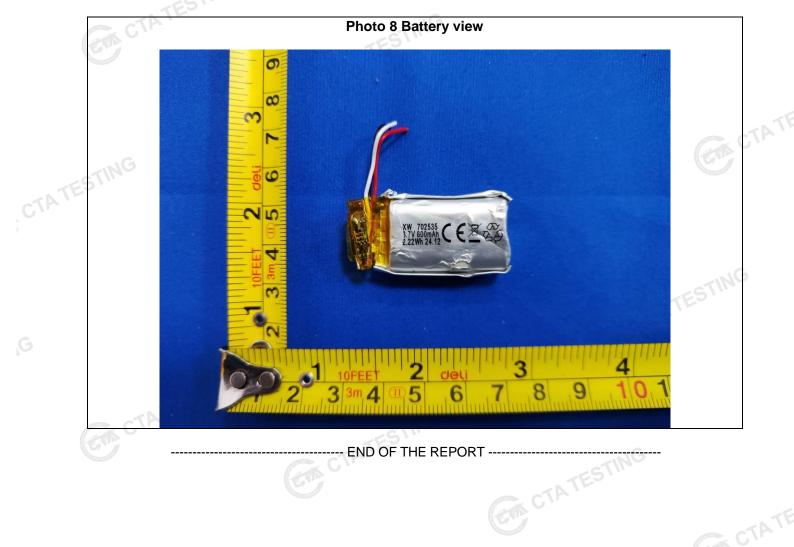












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