

Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202203-0051-3

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Test Report

Certificate No. TBC-C-202203-0051-3

Applicant Jiangsu Rejeee Intelligent Technology Co., Ltd

Equipment Under Test (EUT)

EUT Name LoRaWAN Vibration Sensor

SL500AS-TH Model No.

Series Model No.

Brand Name Rejeee

2022-03-28 **Issue Date**

EN IEC 62368-1:2020+A11:2020 **Standards**

Audio/video, information and communication technology

equipment Part 1: Safety requirements

Conclusions Complied

> This report shows that the product technically complies with the requirements of EN IEC 62368-1:2020+A11:2020 requirements

Report by

(Tiger chen)

Checked by

(Tony Xiong)

Approved by

(Justin Zhang)

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TB-RF-076-3.0



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TEST REPORT

EN IEC 62368-1:2020+A11:2020

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

TBR-C-202203-0051-3 Report Number: Date of issue: 2022-03-28 Total number of pages: 80 pages Testing Laboratory...... Shenzhen Toby Technology Co., Ltd. 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an Address: District, Shenzhen, Guangdong, China Jiangsu Rejeee Intelligent Technology Co., Ltd Applicant's name..... Address: No.20, Xinghuo Road, Jiangbei New District, Nanjing, China Manufacturer's name.....: Jiangsu Rejeee Intelligent Technology Co., Ltd No.20, Xinghuo Road, Jiangbei New District, Nanjing, China Address: Test specification: EN IEC 62368-1:2020+A11:2020 Standard....: CE-LVD Test procedure: Non-standard test method....: N/A

Test Report Form No...... IEC62368_1E

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

Master TRF Dated 2021-02-04

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Test Item description:	LoRaWAN Vibration Sensor
Trade Mark:	Rejeee
Manufacturer:	Jiangsu Rejeee Intelligent Technology Co., Ltd
Model/Type reference:	SL500AS-TH
Ratings:	Input: 5V===, 1.0A
	Battery: 3.6V===, 2700mAh*2



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Revision History

Report No.	Version	Description	Issued Date
TBR-C-202203-0051-3	Rev.01	Initial issue of report	2022-03-28
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TODA	The same	4000	



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

EN 62368 TRF

European group difference and national differences

Product photos

Summary of testing:

The sample(s) tested complies with the requirements of EN IEC 62368-1:2020+A11:2020

Tests performed (name of test and test clause):

Refer to appended clause table for details

Testing location:

Shenzhen Toby Technology Co., Ltd. 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China

Summary of compliance with National Differences:

European group difference and national differences have been considered.

☑ The product fulfils the requirements of IEC 62368-1:2018 and EN IEC 62368-1:2020+A11:2020

Copy of marking plate

LoRaWAN Vibration Sensor

Model No.: SL500AS-TH

Input: 5V===, 1.0A

Battery: 3.6V===, 2700mAh*2.



Jiangsu Rejeee Intelligent Technology Co., Ltd No.20, Xinghuo Road, Jiangbei New District,

Nanjing, China

Importer name: XXXX Importer address: XXXX

Note:

- The above markings are the minimum requirements required by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.



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TEST ITEM PARTICULARS:	
Classification of use by	☑ Ordinary person
TO DE LA COURTE	
0033	Skilled person Skil
	☐ Children likely to be present
Supply Connection	☐ AC Mains ☐ DC Mains
33	
	- ⊠ ES1 □ ES2 □ ES3
Supply % Tolerance	☐ +10%/-10%
	+20%/-15%
WORLD THE PARTY OF	%/%
	⊠ None
Supply Connection – Type	☐ pluggable equipment_type A -
	non-detachable supply cord
	appliance coupler
	direct plug-in
	mating connector
3 (000)	pluggable equipment type B -
	non-detachable supply cord
TODAY OF THE PARTY	appliance coupler
COMPANY OF THE PARTY OF THE PAR	permanent connection mating connector
	other: Supplied by USB port
Considered current rating of protective device	16A (20A for Noth America)
as part of building or equipment installation	Installation location: ☐ building; ☐ equipment ☒ N/A
Equipment mobility	
	stationary for building-in direct plug-in rack-mounting wall-mounted
(0)(0)	
Over voltage category (OVC)	
Class of aguinment	☐ OVC IV ☐ other: ☐ Class I ☐ Class II ☐ Class III
Class of equipment	
Access location	
Pollution degree (PD)	□ PD 1 □ PD 2 □ PD 3
Manufacturer's specified maximum operating ambient	40°C
IP protection class	☐ IP20 ☐ IP_X0
Power Systems	□TN □TT □ITV _{L-L} ⊠ N/A
Altitude during operation (m)	
Altitude of test laboratory (m)	☐ 2000 m or less
Mass of equipment (kg)	⊠ about <u>0.1Kg</u>



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POSSIBLE TEST CASE VERDICTS:	THUL		U.S. O.	
- test case does not apply to the test obje	ect:	N/A		
- test object does meet the requirement .		P (Pass)		
- test object does not meet the requirement	ent:	F (Fail)		
TESTING:	13	7000		
Date of receipt of test item	:	2022-03-21		
Date (s) of performance of tests		2022-03-21 to 2022-03-28	The same of	
GENERAL REMARKS:	William .			
1." (see remark #) " refers to a remark a	appended to the	ne report.	4077	
2. Throughout this report a point is used	as the decima	l separator.		
1033		TODAY		
3. The test results presented in this report	t relate only to	o the object tested.		
4. This report shall not be reproduced ex	cent in full wit	pout the written approval of the		
Shenzhen TOBY.	copt iii raii witi	iout the written approval of the		
Manufacturer's Declaration per sub-cl	ause 4.2.5 of	IECEE 02:		
	W. U	☐ Yes		
The application for obtaining a CB Test C includes more than one factory location a		Not applicable		
declaration from the Manufacturer stating	that the	Not applicable		
sample(s) submitted for evaluation is (are representative of the products from each				
been provided		The state of the s		
When differences exist; they shall be			tion.	
Name and address of factory (ies)				
		No.20, Xinghuo Road, Jiangbei New District, Nanjing,		
TODAY TODAY		China		
GENERAL PRODUCT INFORMATION:				
General product information:	Williams.		WBA W	
The LoRaWAN Vibration Sensor is su			ium battery, not	
directly connected to the mains, so the				
The max.ambient temperature is cons				
Instructions and equipment marking recountry in which the equipment is to b		ty is applied in the language that is	acceptable in the	
Abbreviations used in the report:	o ooidi			
- normal conditions	N.C.	- single fault conditions	S.F.C	
- functional insulation	FI	- basic insulation	BI	
- double insulation	DI	- supplementary insulation	SI	
- between parts of opposite				
polarity	ВОР	- reinforced insulation	RI	
Indicate used abbreviations (if any)				



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ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.)

(Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.

Electrically-caused injury (Clause 5):

(Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source

classification)

Example: +5 V dc input ES1

Source of electrical energy	Corresponding classification (ES)
EUT: 5Vdc	ES1

Electrically-caused fire (Clause 6):

(Note: List sub-assembly or circuit designation and corresponding energy source classification)

Example: Battery pack (maximum 85 watts): PS2

Source of power or PIS	Corresponding classification (PS)
EUT	PS1
Battery's output	PS1

Injury caused by hazardous substances (Clause 7)

(Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.)

Example: Liquid in filled component Glycol

Source of hazardous substances	Corresponding chemical
-011	

Mechanically-caused injury (Clause 8)

(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.) Example: Wall mount unit

MS2

Source of kinetic/mechanical energy	Corresponding classification (MS)		
Edges and corners of enclosure	MS1		
Mass of the unit	MS1		

Thermal burn injury (Clause 9)

(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.)

Example: Hand-held scanner – thermoplastic enclosure TS1

Source of thermal energy	Corresponding classification (TS)
External surfaces	TS1

Radiation (Clause 10)

(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1

Type of radiation	Corresponding classification (RS)
LED indicating lights	RS1



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ENERGY SOURCE DIAGRAM

Indicate which energy sources are included in the energy source diagram. Insert diagram below

--

 \boxtimes ES \boxtimes PS \boxtimes MS \boxtimes TS \boxtimes RS

ES1 →Ordinary person/ Instructed person/ Skilled person

PS1 →(Power source, input of EUT) → Temperature not likely cause the combustible materials to ignite → Ordinary person / Instructed person/ Skilled person

MS1 → Ordinary person/ Instructed person/ Skilled person

TS1→ Ordinary person/ Instructed person/ Skilled person

RS1→ Ordinary person/ Instructed person/ Skilled person



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OVERVIEW OF EMPLOYED SAFE	GUARDS			
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplement ary	Reinforced (Enclosure)
Ordinary	ES1: EUT	N/A	N/A	N/A
5.1	Electrically-caused fire			
Material part	Energy Source	Safeguards		
(e.g. mouse enclosure)		Basic	Supplement ary	Reinforced
Combustible materials within equipment and all parts outside Fire enclosure	Battery pack output	Normal temperatur e below ignition temperatur e	Fire enclosure; fire barrier; Suitable component and material used	N/A
7.1	Injury caused by hazardous substances			
Body Part	Energy Source (hazardous material)	Safeguards		
(e.g., skilled)		Basic	Supplement ary	Reinforced
N/A	N/A	N/A	N/A	N/A
3.1	Mechanically-caused injury			
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplement ary	Reinforced (Enclosure
Ordinary	MS1: Edges and corners	N/A	N/A	N/A
Mass of the unit	MS1	N/A	N/A	N/A
9.1	Thermal Burn			
Body Part	Energy Source	Safeguards		
(e.g., Ordinary)	(TS2)	Basic	Supplement ary	Reinforced
Ordinary	TS1: Plastic enclosure	N/A	N/A	N/A
10.1	Radiation			
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(Output from audio port)	Basic	Supplement ary	Reinforced
N/A	N/A	N/A	N/A	N/A

Supplementary Information:

- (1) See attached energy source diagram for additional details.
- (2) "N" Normal Condition; "A" Abnormal Condition; "S" Single Fault



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2	Р
4.1.2	Use of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	TOP
4.1.3	Equipment design and construction	Evaluation of safeguards regarding limiting the outputs to fulfill ES1, and protection in regard to risk of ignition, mechanical-caused injury and thermal burn considered.	
4.1.4	Specified ambient temperature for outdoor use (oC):	TOBY TOBY	N/A
4.1.5	Constructions and components not specifically covered	THE PROPERTY OF THE PARTY OF TH	N/A
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	See below.	Р
4.4.3.1	General		Р
4.4.3.2	Steady force tests	(See Annex T.2 and T.4)	Р
4.4.3.3	Drop tests	(See Annex T.7)	Р
4.4.3.4	Impact tests	(See Annex T.6)	N/A
4.4.3.5	Internal accessible safeguard tests	The external enclosure cannot be opened without damaging the product.	N/A
4.4.3.6	Glass impact tests	No such glass used.	N/A
4.4.3.7	Glass fixation tests	No such glass used.	N/A
	Glass impact test (1J)	No such glass used.	N/A
may	Push/pull test (10 N)	No such glass used.	N/A
4.4.3.8	Thermoplastic material tests	(See Annex T.8)	Р
4.4.3.9	Air comprising a safeguard	(See Annex T)	(P)
4.4.3.10	Accessibility, glass, safeguard effectiveness	After tests of 4.4.4.2, 4.4.4.3, 4.4.4.7, no safeguard damaged.	Р
4.5	Explosion	No explosion occurs during normal/abnormal operation and single fault conditions	P
4.5.1	General	(See Annex M for batteries)	Р



5.2.2.3

Capacitance limits.....

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Clause	Requirement + Test	Result - Remark	Verdict
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	P
000	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	Fixing of conductors		N/A
REAL PROPERTY.	Fix conductors not to defeat a safeguard		N/A
mu'	Compliance is checked by test	(See Clause T.2)	N/A
4.7	Equipment for direct insertion into mains socket - outlets	Dis Burney	N/A
4.7.2	Mains plug part complies with the relevant standard:	II TOBY	N/A
4.7.3	Torque (Nm)	WORDS TO THE	N/A
4.8	Products containing coin/button cell batteries		N/A
4.8.2	Instructional safeguard	4000	N/A
4.8.3	Battery Compartment Construction		N/A
3 1	Means to reduce the possibility of children removing the battery:	033	A
4.8.4.2	Stress relief test	TOTAL TOTAL	N/A
4.8.4.3	Battery replacement test		N/A
4.8.4.4	Drop test		N/A
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test		N/A
4.8.5	Compliance		N/A
U D	30N force test with test probe		N/A
	20N force test with test hook		N/A
4.9	Likelihood of fire or shock due to entry of conductive object:	TODY OF	N/A
4.10	Component requirements	TO THE PROPERTY OF THE PARTY OF	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		P
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	Р
5.2.2	ES1, ES2 and ES3 limits	ES1 only	Р
5.2.2.2	Steady-state voltage and current:	(See appended table 5.2)	Р

N/A



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Clause	Requirement + Test	Result - Remark	Verdic
5.2.2.4	Single pulse limits	No such single pulses generated in the EUT or applied to it.	N/A
5.2.2.5	Limits for repetitive pulses:	No such repetitive pulses within the EUT	N/A
5.2.2.6	Ringing signals:	No such ringing signals within the EUT	N/A
5.2.2.7	Audio signals:	See annex E	Р
5.3	Protection against electrical energy sources	Only ES1 existed in equipment	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	ES1 only	Р
5.3.2.1	Accessibility to electrical energy sources and safeguards	DI TUDO	N/A
5.3.2.2	Contact requirements	No opening for enclosure.	N/A
1 W	a) Test with test probe from Annex V:	ES1 circuit	N/A
100	b) Electric strength test potential (V):		N/A
THE PARTY	c) Air gap (mm):		N/A
5.3.2.4	Terminals for connecting stripped wire	No stripped wire used.	N/A
5.4	Insulation materials and requirements	and a market	Р
5.4.1.2	Properties of insulating material	The choice and application have taken into account as specified in this Clause 5 and Annex T and natural rubber, hygroscopic materials or asbestos are not used as insulation.	P
5.4.1.3	Humidity conditioning:	No hygroscopic material used.	N/A
5.4.1.4	Maximum operating temperature for insulating materials:	TOBY TOBY	P
5.4.1.5	Pollution degree:	2	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2 is applied. No insulating compound applied (however see 5.5.4).	N/A
5.4.1.5.3	Thermal cycling		N/A
5.4.1.6	Insulation in transformers with varying dimensions	No such transformer.	N/A
5.4.1.7	Insulation in circuits generating starting pulses	No such starting pulses.	N/A
5.4.1.8	Determination of working voltage	MURTH MURTH	N/A
5.4.1.9	Insulating surfaces	(10) TOP	N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	TO TO TO THE	N/A
5.4.1.10.2	Vicat softening temperature:		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
F 4 4 40 0	Dellarassana		NI/A
5.4.1.10.3	Ball pressure:		N/A
5.4.2	Clearances		N/A
5.4.2.2	Determining clearance using peak working voltage		N/A
5.4.2.3	Determining clearance using required withstand voltage:		N/A
	a) a.c. mains transient voltage:		
J AM	b) d.c. mains transient voltage:		_
	c) external circuit transient voltage:		
Maria	d) transient voltage determined by measurement :		_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test		N/A
5.4.2.5	Multiplication factors for clearances and test voltages:	TO TO	N/A
5.4.3	Creepage distances:	TODAY TO	N/A
5.4.3.1	General	TUDO S	N/A
5.4.3.3	Material Group:	Illa & Illb	
5.4.4	Solid insulation	The state of the s	N/A
5.4.4.2	Minimum distance through insulation:		N/A
5.4.4.3	Insulation compound forming solid insulation	4000	N/A
5.4.4.4	Solid insulation in semiconductor devices	3 1000	N/A
5.4.4.5	Cemented joints	600	N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements	and and	N/A
5.4.4.6.2	Separable thin sheet material		N/A
I Am	Number of layers (pcs):		N/A
5.4.4.6.3	Non-separable thin sheet material		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:	3 BURNEY	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:		N/A
5.4.5	Antenna terminal insulation	No antenna terminal	N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
	Insulation resistance (M):		N/A



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Clause	Requirement + Test	Result - Remark	Verdic
5.4.6	Insulation of internal wire as part of supplementary safeguard:	No such insulation of internal wire as part of supplementary safeguard.	N/A
5.4.7	Tests for semiconductor components and for cemented joints	TOWN TO	N/A
5.4.8	Humidity conditioning	TOBY TO THE	Р
	Relative humidity (%):	93%	_
	Temperature (°C):	40°C	_
	Duration (h):	120h (as client's requirement)	_
5.4.9	Electric strength test:		N/A
5.4.9.1	Test procedure for a solid insulation type test		N/A
5.4.9.2	Test procedure for routine tests	1000	N/A
5.4.10	Protection against transient voltages between external circuit	No such external circuits	N/A
5.4.10.1	Parts and circuits separated from external circuits		N/A
5.4.10.2	Test methods	THE PROPERTY OF THE PARTY OF TH	N/A
5.4.10.2.1	General	TO THE WORLD	N/A
5.4.10.2.2	Impulse test:		N/A
5.4.10.2.3	Steady-state test:		N/A
5.4.11	Insulation between external circuits and earthed circuitry	No such external circuit.	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	EDES TOPS	N/A
5.4.11.2	Requirements		N/A
	Rated operating voltage U _{op} (V):	TURE TO THE REAL PROPERTY.	
Millia	Nominal voltage U _{peak} (V):	The state of the s	
9	Max increase due to variation U _{sp} :		
4000	Max increase due to ageing ΔU_{sa} :	TODA TO	
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$:	D TOWN	
5.5	Components as safeguards		A W
5.5.1	General		N/A
5.5.2	Capacitors and RC units	400)	N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	ODY TODY	N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
5.5.5	Relays	No such component provided	N/A
5.5.6	Resistors		N/A
5.5.7	SPD's	No such use	N/A
5.5.7.1	Use of an SPD connected to reliable earthing	No such use	N/A
5.5.7.2	Use of an SPD between mains and protective earth	TOTAL TOTAL	N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	No such external circuits.	N/A
5.6	Protective conductor	COURT OF THE PARTY	N/A
5.6.2	Requirement for protective conductors		N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation		N/A
5.6.3	Requirement for protective earthing conductors		N/A
	Protective earthing conductor size (mm²):		
5.6.4	Requirement for protective bonding conductors	THE STATE OF THE S	N/A
5.6.4.1	Protective bonding conductors		N/A
Miller	Protective bonding conductor size (mm²)		
	Protective current rating (A):		
5.6.4.3	Current limiting and overcurrent protective devices	DELL'AND THE PARTY OF THE PARTY	N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Requirement	The same of the sa	N/A
D W	Conductor size (mm²), nominal thread diameter (mm).	TOBY TOBY	N/A
5.6.5.2	Corrosion	LONG THE	N/A
5.6.6	Resistance of the protective system		N/A
5.6.6.1	Requirements	WORLD WITH	N/A
5.6.6.2	Test Method Resistance		N/A
5.6.7	Reliable earthing		N/A
5.7	Prospective touch voltage, touch current and prote	ective conductor current	N/A
5.7.2	Measuring devices and networks	mill mills	N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of prospective touch voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections	THE WORLD	N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
TUDE	System of interconnected equipment (separate connections/single connection)	DEPT TON	
1033	Multiple connections to mains (one connection at a time/simultaneous connections):	TODY TOUR	_
5.7.4	Earthed conductive accessible parts		N/A
5.7.5	Protective conductor current	1000	N/A
(00)	Supply Voltage (V):	4000	_
	Measured current (mA)	William William	<u> </u>
mili y	Instructional Safeguard		N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	No external circuits.	N/A
5.7.6.1	Touch current from coaxial cables		N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits		N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits	No external circuits.	N/A
5.7.7.1	Touch current from coaxial cables	000	N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables	TO THE REAL PROPERTY.	N/A
5.7.8	Summation of touch currents from external circuits	TODY TOU	N/A
	a) Equipment connected to earthed external circuits, current (mA):	The state of the s	N/A
	b) Equipment connected to unearthed external circuits, current (mA):	TOBY T	N/A
5.8	Backfeed safeguard in battery backed up supplies	mous must	N/A
	Mains terminal ES:	(See appended table 5.8)	N/A
	Air gap (mm):	Will will be a second	N/A

6	ELECTRICALLY- CAUSED FIRE		P
6.2	Classification of power sources (PS) and potential	ignition sources (PIS)	P
6.2.2	Power source circuit classifications	PS (power source) classification determined by measuring the maximum power in Figures 34 and 35 for load and power source circuits.	P
6.2.2.1	General	See the following details.	P
6.2.2.2	Power measurement for worst-case load fault:		Р



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Clause	Requirement + Test	Result - Remark	Verdic
6.2.2.3	Power measurement for worst-case power source fault:		Р
6.2.2.4	PS1:	CONTRACTOR OF THE PARTY OF THE	Р
6.2.2.5	PS2		N/A
6.2.2.6	PS3:	miles and	N/A
6.2.3	Classification of potential ignition sources		Р
6.2.3.1	Arcing PIS:	No arcing PIS	N/A
6.2.3.2	Resistive PIS:	United States	N/A
6.3	Safeguards against fire under normal operating and	l abnormal operating conditions	Р
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 C for unknown materials:	No ignition and no such temperature attained within the equipment. (See appended table 5.4.1.4, 6.3.2, 9.0, B.2.6)	P
6.3.1 (b)	Combustible materials outside fire enclosure	Only output wire and connector complying to 6.4.5.	N/A
6.4	Safeguards against fire under single fault conditions		Р
6.4.1	Safeguard Method	Method by control of fire spread applied.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	PS1 is not considered to contain enough energy to result in materials reaching ignition temperatures	Р
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	Method by control of fire spread applied as 6.4.1.	Р
6.4.3.1	General	miles miles	N/A
6.4.3.2	Supplementary Safeguards	THE STATE OF THE S	N/A
33	Special conditions if conductors on printed boards are opened or peeled	TON TOWN	N/A
6.4.3.3	Single Fault Conditions:	1000	N/A
	Special conditions for temperature limited by fuse	The state of the s	N/A
6.4.4	Control of fire spread in PS1 circuits	The state of the s	Р
6.4.5	Control of fire spread in PS2 circuits	B COM	N/A
6.4.5.2	Supplementary safeguards:	4087	N/A
6.4.6	Control of fire spread in PS3 circuit	(10)	N/A
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.1	General:		N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier	Upp To The State of the State o	N/A
6.4.8	Fire enclosures and fire barriers		N/A



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Clause	Requirement + Test	Result - Remark	Verdict		
6.4.8.1	Fire enclosure and fire barrier material properties		N/A		
6.4.8.2.1	Requirements for a fire barrier		N/A		
6.4.8.2.2	Requirements for a fire enclosure	WORR UNI	N/A		
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	TODA TODA	N/A		
6.4.8.3.1	Fire enclosure and fire barrier openings		N/A		
6.4.8.3.2	Fire barrier dimensions		N/A		
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	No openings	N/A		
6	Needle Flame test	A CORP.	N/A		
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm):	TODY TO	N/A		
	Flammability tests for the bottom of a fire enclosure	THE PARTY OF THE P	N/A		
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):	TOBY	N/A		
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	DESCRIPTION OF THE PARTY OF THE	N/A		
6.5	Internal and external wiring		N/A		
6.5.1	Requirements		N/A		
6.5.2	Cross-sectional area (mm²)	The state of the s	N/A		
6.5.3	Requirements for interconnection to building wiring	TO TO	N/A		
6.6	Safeguards against fire due to the connection to ac	dditional equipment	N/A		

7	INJURY CAUSED BY HAZARDOUS SUBSTANC	CES	Р
7.2	Reduction of exposure to hazardous substances	No hazardous chemicals within the equipment.	Р
7.3	Ozone exposure	No ozone production within the equipment.	N/A
7.4	Use of personal safeguards (PPE)	TODOS TODOS	N/A
	Personal safeguards and instructions:		
7.5	Use of instructional safeguards and instructions	mnBY money	N/A
	Instructional safeguard (ISO 7010):	4087	
7.6	Batteries:		Р

	8	MECHANICALLY-CAUSED INJURY		P		f
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Clause	Requirement + Test	Result - Remark	Verdict
8.1	General	No moving parts in the equipment – see below regarding edges and corners.	P
8.2	Mechanical energy source classifications	MS1	Р
8.3	Safeguards against mechanical energy sources		N/A
8.4	Safeguards against parts with sharp edges and corners	No sharp edges and corners.	Р
8.4.1	Safeguards		N/A
8.5	Safeguards against moving parts	No moving parts.	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
8.5.2	Instructional Safeguard:	WORR WINDS	
8.5.4	Special categories of equipment comprising moving parts	TO THE REAL PROPERTY OF	N/A
8.5.4.1	Large data storage equipment	400	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	OBI TOBY	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	- CORP TOTAL	N/A
8.5.4.2.2	Instructional safeguards against moving parts	31	N/A
(1)33	Instructional Safeguard	WORD MODE	
8.5.4.2.3	Disconnection from the supply		N/A
8.5.4.2.4	Probe type and force (N)		N/A
8.5.5	High Pressure Lamps	6003	N/A
8.5.5.1	Energy Source Classification	1000	N/A
8.5.5.2	High Pressure Lamp Explosion Test:	words.	N/A
8.6	Stability	Classification MS1 according to table 35, line 5 and no stability requirements.	N/A
8.6.1	Product classification	13 (102)	N/A
may 1	Instructional Safeguard:	CORP.	_
8.6.2	Static stability	(1)	N/A
8.6.2.2	Static stability test	TOTAL TOTAL	N/A
	Applied Force	MOR MOR	_
8.6.2.3	Downward Force Test		N/A
8.6.3	Relocation stability test		N/A
CHILE	Unit configuration during 10 tilt:	THE PARTY OF THE P	



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Clause	Requirement + Test	Result - Remark	Verdict
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force)		N/A
1000	Position of feet or movable parts	Line In	_
8.7	Equipment mounted to wall or ceiling	TODA S	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	TOBA ETUDA	N/A
8.7.2	Direction and applied force:	THE PARTY OF THE P	N/A
8.8	Handles strength		N/A
8.8.1	Classification		N/A
8.8.2	Applied Force		N/A
8.9	Wheels or casters attachment requirements	1000 M	N/A
8.9.1	Classification		N/A
8.9.2	Applied force	MIN MUS	_
8.10	Carts, stands and similar carriers		N/A
8.10.1	General	WERRY WORK	N/A
8.10.2	Marking and instructions		N/A
	Instructional Safeguard		_
8.10.3	Cart, stand or carrier loading test and compliance		N/A
AROLL S	Applied force		<u> </u>
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability	The same	N/A
a W	Applied horizontal force (N)		_
8.10.6	Thermoplastic temperature stability (C)	TODA TO	N/A
8.11	Mounting means for rack mounted equipment		N/A
8.11.1	General		N/A
8.11.2	Product Classification		N/A
8.11.3	Mechanical strength test, variable N		N/A
8.11.4	Mechanical strength test 250N, including end stops		N/A
8.12	Telescoping or rod antennas	No such parts.	N/A
BU	Button/Ball diameter (mm):	WUBA WOR	_
	THERMAL BLIRN IN HIRV		
			D

9	THERMAL BURN INJURY	P
9.2	Thermal energy source classifications	Р
9.3	Touch temperature limits	Р



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	IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
9.3.1	Touch temperatures of accessible parts:	Temperature of enclosure classed as TS1.	Р		
9.3.2	Test method and compliance	No part considered to be accessible other than enclosure. The equipment evaluated by temperature test (see table 5.4.1.4).	P		
9.4	Safeguards against thermal energy source	ces	N/A		
9.5	Requirements for safeguards		N/A		
9.5.1	Equipment safeguard		N/A		
9.5.2	Instructional safeguard:	1000	N/A		
9.6	Requirements for wireless power transmitter	S.Y. MIBY	N/A		
9.6.1	General	moby moby	N/A		
9.6.2	Specification of the foreign objects	The state of the s	N/A		
9.6.3	Test method and compliance:	(See appended table 9.6)	N/A		

10	RADIATION		Р
10.2	Radiation energy source classification	WOOD WOOD	P
10.2.1	General classification	RS1	Р
	Lasers:	No laser radiation	N/A
	Lamps and lamp systems	The same of the sa	_
W W	Image projectors	WAR WORK	_
and the	X-Ray	WUBA WORK	_
3	Personal music player	BA LORIS	_
10.3	Safeguards against laser radiation	MORIS MORIS	N/A
	The standard(s) equipment containing laser(s) comply:	TO TO THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OW	_
10.4	Protection against visible, infrared, and UV radiation	No such radiation generated from the equipment.	N/A
10.4.1	General requirements	LED only used as indicator light	Р
	Instructional safeguard provided for accessible radiation level needs to exceed	TODAY TODAY	N/A
	Risk group marking and location :		N/A
CHILD	Information for safe operation and installation		



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	IEC 62368-1		1
Clause	Requirement + Test	Result - Remark	Verdict
10.4.2	Requirements for enclosures	TODA TODA	N/A
	UV radiation exposure :	(See Annex C)	N/A
10.4.3	Instructional safeguard :	MODE THE	N/A
10.5	Protection against x-radiation	No such x-radiation generated from the equipment	N/A
10.5.1	Requirements	THE WAY	N/A
I The	Instructional safeguard for skilled persons:		N/A
10.5.3	Maximum radiation (pA/kg):		_
10.6	Protection against acoustic energy sources	Not such an equipment.	N/A
10.6.1	General	23	N/A
10.6.2	Classification	MUDD TO	N/A
	Acoustic output LAeq,T, dB(A):		N/A
130	Unweighted RMS output voltage (mV):		N/A
	Digital output signal (dBFS):		N/A
10.6.3	Requirements for dose-based systems	WALL WALL BEING	N/A
10.6.3.1	General requirements	TO BY	N/A
10.6.3.2	Dose-based warning and automatic decrease		_
10.6.3.3	Exposure-based warning and requirements		_
A ROLL	30 s integrated exposure level (MEL30):		_
W W	Warning for MEL ≥ 100 dB(A):		N/A
10.6.4	Measurement methods		N/A
10.6.5	Protection of persons	The state of the	_
100	Instructional safeguards:	1000	N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	THE PROPERTY OF THE PARTY OF TH	_
10.6.6.1	Corded listening devices with analogue input		N/A
BREE	Listening device input voltage (mV):		_
10.6.6.2	Corded listening devices with digital input		N/A
W.	Max. acoustic output LAeq,T, dB(A):		N/A
10.6.6.3	Cordless listening devices		N/A
	Max. acoustic output LAeq,T, dB(A):	1000	N/A

K	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS	Р
B.1	General	P



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdic
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal Operating Conditions	D THE TOTAL	Р
B.2.1	General requirements	(See summary of testing for tested models, each loaded according to its output ratings. See also appended table B.2.5.)	P
700	Audio Amplifiers and equipment with audio amplifiers	Not such equipment.	N/A
B.2.3	Supply voltage and tolerances	000	N/A
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	THE PROPERTY OF THE PARTY OF TH	Р
B.3.1	General requirements:	(See appended table B.3 & B.4)	P
B.3.2	Covering of ventilation openings		N/A
B.3.3	D.C. mains polarity test		P
B.3.4	Setting of voltage selector:	No voltage selector was used.	N/A
B.3.5	Maximum load at output terminals:		P
B.3.6	Reverse battery polarity	SON THE STATE OF T	Р
B.3.7	Abnormal operating conditions as specified in Clause E.2.	23 MOBIL CO	Р
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	P
B.4	Simulated single fault conditions		Р
B.4.2	Temperature controlling device open or short-circuited:	No such device used.	N/A
B.4.3	Motor tests	No motors used.	N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature:	TOBY TOUR	
B.4.4	Short circuit of functional insulation	5Vd.c supplied apparatus, only ES1 existed	Р
B.4.4.1	Short circuit of clearances for functional insulation		Р
B.4.4.2	Short circuit of creepage distances for functional insulation	4033	P
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards used.	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	TODY TO	N/A
B.4.6	Short circuit or disconnect of passive components	(See appended table B.3 & B.4)	Р



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	IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict		
B.4.7	Continuous operation of components	The EUT is continuous operating type and no such components intended for short time operation or intermittent operation	N/A		
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	TODA TO	Р		
B.4.9	Battery charging under single fault conditions:	See annex M	Р		
С	UV RADIATION		N/A		
C.1	Protection of materials in equipment from UV radiation	No UV generated from the equipment.	N/A		
C.1.2	Requirements		N/A		
C.1.3	Test method		N/A		
C.2	UV light conditioning test	The state of the s	N/A		
C.2.1	Test apparatus	1000	N/A		
C.2.2	Mounting of test samples	MODES THE	N/A		
C.2.3	Carbon-arc light-exposure apparatus		N/A		
C.2.4	Xenon-arc light exposure apparatus	WORLD WOOD	N/A		
D	TEST GENERATORS		N/A		
D.1	Impulse test generators	The state of the s	N/A		
D.2	Antenna interface test generator		N/A		
D.3	Electronic pulse generator		N/A		
E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	N/A		
E.1	Audio amplifier normal operating conditions	Not such equipment.	N/A		
Alton	Maximum non-clipped output power (W):	type and no such components intended for short time operation or intermittent operation its : See annex M No UV generated from the equipment.			
	Rated load impedance (Ω) :				
China.	Open-circuit output voltage (V):				
	Instructional safeguard:	See Clause F.5			
E.2	Audio amplifier abnormal operating conditions		N/A		
	Audio signal source type:		N/A		
	Audio output power (W):		N/A		
100	Audio output voltage (V):		N/A		
	riadio odipat voltago (v).		The same		
	Rated load impedance (Ω) :		N/A		



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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdic	
E.3	Audio amplifier abnormal operating conditions	(See Table B.3, B.4)	N/A	
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	D INSTRUCTIONAL SAFEGUARDS	Р	
F.1	General requirements	See below.	Р	
	Instructions – Language	English	_	
F.2	Letter symbols and graphical symbols	1000	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 IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	P	
F.3	Equipment markings		Р	
F.3.1	Equipment marking locations	The required marking is located on the enclosure of the equipment and is easily visible.	P	
F.3.2	Equipment identification markings	See copy of marking plate.	Р	
F.3.2.1	Manufacturer identification	See copy of marking plate.		
F.3.2.2	Model identification	See model list.	_	
F.3.3	Equipment rating markings	See the following details.	Р	
F.3.3.1	Equipment with direct connection to mains	The same of the sa	N/A	
F.3.3.2	Equipment without direct connection to mains	S TOWN	Р	
F.3.3.3	Nature of supply voltage:	DC	_	
F.3.3.4	Rated voltage:	See copy of marking plate.	_	
F.3.3.4	Rated frequency:	TOUR TOUR	_	
F.3.3.6	Rated current or rated power:	See copy of marking plate.	_	
F.3.3.7	Equipment with multiple supply connections		N/A	
F.3.4	Voltage setting device	No voltage setting device.	N/A	
F.3.5	Terminals and operating devices		N/A	
F.3.5.1	Mains appliance outlet and socket-outlet markings:	No outlet used.	N/A	
F.3.5.2	Switch position identification marking:	No switch used.	N/A	
F.3.5.3	Replacement fuse identification and rating markings:	TORS THE	N/A	
F.3.5.4	Replacement battery identification marking:		Р	
F.3.5.5	Terminal marking location		N/A	
F.3.6	Equipment markings related to equipment classification	See below.	P	



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Clause	Requirement + Test	Result - Remark	Verdict
F.3.6.1	Class I Equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal	The state of the s	N/A
F.3.6.1.2	Neutral conductor terminal	WORD UNDER	N/A
F.3.6.1.3	Protective bonding conductor terminals	4000	N/A
3.6.2	Class II equipment (IEC60417-5172)	Class III apparatus	N/A
F.3.6.2.1	Class II equipment with or without functional earth	TODA	N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking	THE PERSON NAMED IN	N/A
F.3.7	Equipment IP rating marking	IPX0.	_
F.3.8	External power supply output marking	33	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.	P
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking	P
077		remained legible.	3 6
F.4	Instructions		Р
	a) Equipment for use in locations where children not likely to be present - marking	TOTAL TIME	N/A
1 Albert	b) Instructions given for installation or initial use		Р
	c) Equipment intended to be fastened in place		N/A
Character	d) Equipment intended for use only in restricted access area	3 HOLDER	N/A
087	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	No such terminals provided.	N/A
33	f) Protective earthing employed as safeguard	WUB?	N/A
TO B	g) Protective earthing conductor current exceeding ES2 limits	TODY TO	N/A
	h) Symbols used on equipment	No such symbols used as a safeguard considered.	N/A



G.4

Connectors

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
TOB	i) Permanently connected equipment not provided with all-pole mains switch	Not permanently connected equipment.	N/A
089	j) Replaceable components or modules providing safeguard function	No such markings.	P
F.5	Instructional safeguards	No instructional safeguard is considered as necessary.	N/A
G	COMPONENTS	an)	Р
G.1	Switches	MOS MOS	N/A
G.1.1	General requirements	No switch used.	N/A
G.1.1	Ratings, endurance, spacing, maximum load	NO SWIGH useu.	N/A
G.1.2 G.2	Relays		N/A
G.2.1	General requirements	No relay used.	N/A
G.2.2	Overload test	No relay useu.	N/A
G.2.3	Relay controlling connectors supply power		N/A
G.2.4	Mains relay, modified as stated in G.2		N/A
G.3	Protection Devices		N/A
G.3.1	Thermal cut-offs	No thermal cut-off used.	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	TOBY	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	D TODAY	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	The state of	N/A
G.3.2	Thermal links	TO STATE OF THE PARTY OF THE PA	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal link used.	N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A
	Aging hours (H)		
ARCE	Single Fault Condition:		_
	Test Voltage (V) and Insulation Resistance (Ω). :		_
G.3.3	PTC Thermistors	The state of the s	N/A
G.3.4	Overcurrent protection devices		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to	G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	THE PROPERTY OF	N/A
G.3.5.2	Single faults conditions:		N/A

N/A



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Clause	Requirement + Test	Result - Remark	Verdict
G.4.1	Spacings		N/A
G.4.2	Mains connector configuration		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	TODA	N/A
G.5	Wound Components		N/A
G.5.1	Wire insulation in wound components		N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	THE PROPERTY OF	N/A
G.5.1.2 b)	Construction subject to routine testing		N/A
G.5.2	Endurance test on wound components		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
a u	Time (s)		_
	Temperature (°C):		<u> </u>
G.5.2.3	Wound Components supplied by mains		N/A
G.5.3	Transformers	TODAY OF THE PARTY OF	N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)	TO THE REAL PROPERTY AND ADDRESS OF THE PERSON OF THE PERS	N/A
Time.	Position:		_
W.	Method of protection:		₹
G.5.3.2	Insulation		N/A
U	Protection from displacement of windings:	TUDO TO	_
G.5.3.3	Overload test:		N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding Temperatures testing in the unit		N/A
G.5.3.3.3	Winding Temperatures - Alternative test method		N/A
G.5.4	Motors		Р
G.5.4.1	General requirements	N CONTRACTOR	Р
033	Position	DC vibrating motor used, see cl.G.5.4.6	_
G.5.4.2	Test conditions		N/A
G.5.4.3	Running overload test	TODAY TODAY	N/A
G.5.4.4	Locked-rotor overload test		N/A
3 4	Test duration (days):		
G.5.4.5	Running overload test for d.c. motors in secondary circuits	TODAY TODAY	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.5.2	Tested in the unit	TODA TODA	N/A
7	Electric strength test (V)	D TO THE TOTAL OF	_
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h):	TODAY TO	N/A
A W	Electric strength test (V)		_
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits	See below	Р
G.5.4.6.2	Tested in the unit		N/A
miles.	Maximum Temperature	William William	N/A
	Electric strength test (V):		N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h):	During the test,the motor shall not emit flames and molten metal;	Р
	Electric strength test (V)	Motor voltage is not exceed ES1	N/A
G.5.4.7	Motors with capacitors	4000	N/A
G.5.4.8	Three-phase motors	TODA TO	N/A
G.5.4.9	Series motors	Will be the second	N/A
WHEN THE	Operating voltage	The second second	
G.6	Wire Insulation		Р
G.6.1	General No peak working voltage exceeded ES1		P
G.6.2	Solvent-based enamel wiring insulation	Insulation does not rely on solvent-based enamel.	N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements		N/A
	Туре	TO THE WAY	_
I BULL	Rated current (A)		_
	Cross-sectional area (mm²), (AWG):		_
G.7.2	Compliance and test method		N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	TOBY TOBY	N/A
G.7.3.2	Cord strain relief	TO TO	N/A
G.7.3.2.1	Requirements	and a man	N/A
	Strain relief test force (N):	The wall	_
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		_
G.7.3.2.4	Strain relief comprised of polymeric material		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
G.7.4	Cord Entry:	a filling the	N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements	WORK WITH	N/A
G.7.5.2	Mass (g):	1000	_
BU	Diameter (m):		g —
000	Temperature (C):	1000	_
G.7.6	Supply wiring space		N/A
G.7.6.2	Stranded wire	No such wire.	N/A
G.7.6.2.1	Test with 8 mm strand		N/A
G.8	Varistors		N/A
G.8.1	General requirements		N/A
G.8.2	Safeguard against shock		N/A
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test		N/A
G.8.3.3	Temporary overvoltage		N/A
G.9	Integrated Circuit (IC) Current Limiters		N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	No IC current limiter provided within the equipment.	N/A
G.9.1 b)	Limiters do not have manual operator or reset		N/A
G.9.1 c)	Supply source does not exceed 250 VA:		
G.9.1 d)	IC limiter output current (max. 5A):		<u> </u>
G.9.1 e)	Manufacturers' defined drift:	The state of the s	
G.9.2	Test Program 1	TOTAL TOTAL	N/A
G.9.3	Test Program 2	1000	N/A
G.9.4	Test Program 3		N/A
G.10	Resistors		N/A
G.10.1	General requirements	No such resistor as safeguard used	N/A
G.10.2	Resistor test		N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable	TODY TODY	N/A
G.10.3.1	General requirements		N/A
G.10.3.2	Voltage surge test		N/A
G.10.3.3	Impulse test	TOTAL TOTAL	N/A
G.11	Capacitor and RC units		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
-351			N
G.11.1	General requirements	a fill the	N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors	WORK BEAUTI	N/A
G.12	Optocouplers		N/A
BY TOB	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results):	TORY TORY	N/A
3	Type test voltage Vini:	TIES TO THE PARTY OF THE PARTY	_
	Routine test voltage, Vini,b	William Milliam	_
G.13	Printed boards		Р
G.13.1	General requirements	See the following details.	P
G.13.2	Uncoated printed boards	The insulation between conductors on the outer surfaces of an uncoated printed board complied with the minimum clearance and creepage requirements	P
G.13.3	Coated printed boards	No coated printed board or multilayer board applied for within the equipment.	N/A
G.13.4	Insulation between conductors on the same inner surface	DI TOUR	N/A
THUL	Compliance with cemented joint requirements (Specify construction)	3 TODY TO	_
G.13.5	Insulation between conductors on different surfaces	EDES LIDER	N/A
A WW	Distance through insulation	The state of the s	N/A
	Number of insulation layers (pcs):	TUDE TO THE REAL PROPERTY.	_
G.13.6	Tests on coated printed boards	TO THE REAL PROPERTY.	N/A
G.13.6.1	Sample preparation and preliminary inspection	Die Control	N/A
G.13.6.2a)	Thermal conditioning	MODES TOO	N/A
G.13.6.2b)	Electric strength test	N TODA	N/A
G.13.6.2c)	Abrasion resistance test	TODAY	N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements:	No coating on component terminals considered to affect creepage or clearances.	N/A
G.15	Liquid filled components		N/A
G.15.1	General requirements	No such device provided within the equipment.	N/A



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IEC 62368-1				
Clause	Requirement + Test	Result - Remark	Verdict	
G.15.2	Requirements		N/A	
G.15.3	Compliance and test methods		N/A	
G.15.3.1	Hydrostatic pressure test		N/A	
G.15.3.2	Creep resistance test	0.000	N/A	
G.15.3.3	Tubing and fittings compatibility test	103	N/A	
G.15.3.4	Vibration test		N/A	
G.15.3.5	Thermal cycling test		N/A	
G.15.3.6	Force test		N/A	
G.15.4	Compliance		N/A	
G.16	IC including capacitor discharge function (ICX)		N/A	
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	The Little of th	N/A	
b)	Impulse test using circuit 2 with Uc = to transient voltage	TOBY TO	N/A	
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	THE PROPERTY OF THE PARTY OF TH	N/A	
C2)	Test voltage		- 4400	
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer		N/A	
D2)	Capacitance:	mn33	- W	
D3)	Resistance			

Н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A	
H.1	General	Seneral No telephone ringing signal generated within the equipment.	N/A	
H.2	Method A		N/A	
H.3	Method B		N/A	
H.3.1	Ringing signal		N/A	
H.3.1.1	Frequency (Hz)		_	
H.3.1.2	Voltage (V)		_	
H.3.1.3	Cadence; time (s) and voltage (V)		_	
H.3.1.4	Single fault current (mA)::	THE STATE OF THE S	_	
H.3.2	Tripping device and monitoring voltage:	The state of the s	N/A	
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	The state of the s	N/A	
H.3.2.2	Tripping device		N/A	



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
H.3.2.3	Monitoring voltage (V):		_
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		
	General requirements		N/A
A W	Winding wire insulation:		N/A
	Solid round winding wire, diameter (mm):	TO THE PARTY OF TH	N/A
3 000	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm2):	TOBY TO TO	N/A
J.2/J.3	Tests and Manufacturing	(See separate test report)	N/A
K	SAFETY INTERLOCKS		N/A
K.1	General requirements	No safety interlock provided.	N/A
K.2	Components of safety interlock safeguard mechanism	TOBY TOBY	N/A
K.3	Inadvertent change of operating mode	THE PARTY OF THE P	N/A
K.4	Interlock safeguard override	201	N/A
K.5	Fail-safe	1000	N/A
1	Compliance		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method		N/A
K.7	Interlock circuit isolation	TOP TO	N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):	THE PARTY OF THE P	N/A
K.7.2	Overload test, Current (A)		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A
D. C.			
L	DISCONNECT DEVICES		Р
L.1	General requirements	not directly connected to the mains	N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single phase equipment	(10)	N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A



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	THE PARTY OF THE P	C 62368-1	
Clause	Requirement + Test	Result - Remark	Verdict
L.8	Multiple power sources		N/A
	Instructional safeguard :		N/A

M	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		
M.1	General requirements	THE STATE OF THE S	Р
M.2	Safety of batteries and their cells	See below	Р
M.2.1	Requirements	The battery pack complies with EN 62133-2: 2017. (See appended table 4.1.2)	P
M.2.2	Compliance and test method (identify method):		100
M.3	Protection circuits		Р
M.3.1	Requirements	Safeguards considered during charging and discharging cycles as determined for expected and foreseeable use according to the user instructions.	P
M.3.2	Tests	The state of the s	P
	- Overcharging of a rechargeable battery	By inspection of the data for cells and tests of B3. & B4. See appended tables B.3 & B.4.	Р
	- Unintentional charging of a non-rechargeable battery	Rechargeable battery used	N/A
	- Reverse charging of a rechargeable battery	Battery cannot be installed in a reverse polarity position, due to	N/A
	- Excessive discharging rate for any battery	By inspection and tests as for charging above. See appended tables B.3 & B.4.	Р
M.3.3	Compliance	No chemical leaked, no explosion occurred, no flame or expulsion of parts observed after tests and the battery temperature and battery charge/discharge current didn't exceed the specifications from manufacturer during the tests.	T P
M.4	Additional safeguards for equipment containing secondary lithium battery	TO TO THE REAL PROPERTY.	Р
M.4.1	General	The equipment contains one approved Li-ion battery pack	P
M.4.2	Charging safeguards	See below	Р



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Clause	Requirement + Test	Result - Remark	Verdict
M.4.2.1	Charging operating limits	Max. SleepUp Sleeping instrument charge voltage 4.2Vdc, max. charge current 220mA, Remote Control charge voltage 4.2Vdc, max. charge current 50mA,max. charge temperature 45°C specified by manufacturer	TO B
M.4.2.2a)	Charging voltage, current and temperature:	(See appended table M.4)	
M.4.2.2 b)	Single faults in charging circuitry:	(See appended table M.4)	
M.4.3	Fire Enclosure	Plastic enclosure considered as fire enclosure.	Р
M.4.4	Endurance of equipment containing a secondary lithium battery	Verified by tests and measurements in M.4.4.3 and M.4.4.4.	P
M.4.4.2	Preparation		Р
M.4.4.3	Drop and charge/discharge function tests	mobb mobb	Р
and the	Drop		Р
	Charge	Charge function under normal operation condition still operated after drop test	Р
	Discharge	Discharge function under normal operation condition still operated after drop test	Р
M.4.4.4	Charge-discharge cycle test	Complied by completing 3 complete charge and discharge cycles.	B P
M.4.4.5	Result of charge-discharge cycle test	No fire, explosion or venting occurred	Р
M.5	Risk of burn due to short circuit during carrying		Р
M.5.1	Requirement	No such terminal only USB ports used for connections.	Р
M.5.2	Compliance and Test Method (Test of P.2.3)	100	Р
M.6	Prevention of short circuits and protection from other effects of electric current	See below	Р
M.6.1	Short circuits	TOBY TOBY	P
M.6.1.1	General requirements	MODE TO	Р
M.6.1.2	Test method to simulate an internal fault	The battery pack complied with EN 62133-2: 2017 which is considered the internal fault tests. No such explosion or fire likely to result from short circuits.	P
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)	TOWN TOWN	133



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Clause	Requirement + Test	Result - Remark	Verdict	
M.6.2	Leakage current (mA):	TO TO TO		
M.7	Risk of explosion from lead acid and NiCd		N/A	
IVI. 7	batteries			
M.7.1	Ventilation preventing explosive gas concentration	TODY OF	N/A	
M.7.2	Compliance and test method			
M.8	Protection against internal ignition from external spark sources of lead acid batteries			
M.8.1	General requirements			
M.8.2	Test method			
M.8.2.1	General requirements		N/A	
M.8.2.2	Estimation of hypothetical volume Vz (m³/s):	Times and		
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	MODE TO THE REAL PROPERTY.	N/A	
M.9.2	Tray for preventing electrolyte spillage		N/A	
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing):	Adequate information and warnings provided in user instruction.	N/A	
			1100	
N	ELECTROCHEMICAL POTENTIALS		N/A	
U. L.	Metal(s) used:			
0	MEASUREMENT OF CREEPAGE DISTANCES A	AND CLEARANCES	N/A	
	Figures O.1 to O.20 of this Annex applied:	m(1)		
THE STATE OF THE S			0/1/25	
Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	N/A	
P.1	General requirements	1000	N/A	
P.2.2	Safeguards against entry of foreign object	(100)	N/A	
	Location and Dimensions (mm):		_	
P.2.3	Safeguard against the consequences of entry of foreign object	1000	N/A	
P.2.3.1	Safeguards against the entry of a foreign object		N/A	
	Openings in transportable equipment		N/A	
MIL!	Transportable equipment with metalized plastic parts		N/A	



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IEC 62368-1					
Clause	Requirement + Test	Result - Remark	Verdict		
P.2.3.2 Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):		3 TUDY TOWN	N/A		
P.3	Safeguards against spillage of internal liquids	No such liquids.	N/A		
P.3.1	General requirements		N/A		
P.3.2	Determination of spillage consequences	1000	N/A		
P.3.3	Spillage safeguards	1000	N/A		
P.3.4	Safeguards effectiveness				
P.4	Metallized coatings and adhesive securing parts No such construction.				
P.4.2 a)	Conditioning testing		N/A		
	Tc (°C)		_		
	Tr (°C):	THE THE PARTY OF T	_		
a v	Ta (°C):		_		
P.4.2 b)	Abrasion testing:		N/A		
P.4.2 c)	Mechanical strength testing:		N/A		
Q	CIRCUITS INTENDED FOR INTERCONNECTION	N WITH BUILDING WIRING	Р		
Q.1	Limited power sources		Р		
Q.1.1 a)	Inherently limited output	WORK WORK	Р		
Q.1.1 b)	Impedance limited output		N/A		
OBY	- Regulating network limited output under normal operating and simulated single fault condition	1033	N/A		
Q.1.1 c)	Overcurrent protective device limited output		N/A		
Q.1.1 d)	IC current limiter complying with G.9		N/A		
Q.1.2	Compliance and test method	See appended table Annex Q.1	N/A		
Q.2	Test for external circuits – paired conductor cable	No such circuit for connection to the EUT	N/A		
Chine	Maximum output current (A)				
	Current limiting method:				

R	LIMITED SHORT CIRCUIT TEST		
R.1	General requirements	No such consideration.	N/A
R.2	Determination of the overcurrent protective device and circuit	TOBY TO	N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).	The same of the sa	N/A



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IEC 62368-1					
Clause	Requirement + Test	Result - Remark	Verdict		
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		Р		
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	Approved fire enclosure with V-0 material used.	P		
	Samples, material:		_		
1833	Wall thickness (mm):	1000	_		
1 (10)	Conditioning (C):	TODAY TO	_		
may.	Test flame according to IEC 60695-11-5 with conditions as set out	THE PARTY OF THE P	N/A		
	- Material not consumed completely		N/A		
	- Material extinguishes within 30s		N/A		
	- No burning of layer or wrapping tissue		N/A		
S.2	Flammability test for fire enclosure and fire barrier integrity	TODY TODY	N/A		
	Samples, material:	CONTRACTOR OF THE	_		
WO 17	Wall thickness (mm):	UBA UDA	_		
	Conditioning (C):	LOST TOWN	_		
	Test flame according to IEC 60695-11-5 with conditions as set out	DE LEGISTA	N/A		
A Brand	Test specimen does not show any additional hole		N/A		
S.3	Flammability test for the bottom of a fire enclosure	MOBIL TOBY	N/A		
	Samples, material:	6000	_		
33	Wall thickness (mm)	TODAY			
an P	Cheesecloth did not ignite	WILLIAM WILLIAM	N/A		
S.4	Flammability classification of materials		N/A		
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	DECEMBER OF THE PERSON OF THE	N/A		
Time.	Samples, material:		_		
	Wall thickness (mm):	000	_		
W. A.	Conditioning (test condition), (°C)	TOTAL CONTRACTOR	_		
	Test flame according to IEC 60695-11-20 with conditions as set out	TO TO TO TO	N/A		
3	After every test specimen was not consumed completely	DIA THE THE PARTY OF THE PARTY	N/A		



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	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdic	
	After fifth flame application, flame extinguished within 1 min		N/A	
T	MECHANICAL STRENGTH TESTS	aniis aniis	P	
T.1	General requirements		Р	
T.2	Steady force test, 10 N	7000	Р	
T.3	Steady force test, 30 N		N/A	
T.4	Steady force test, 100 N		Р	
T.5	Steady force test, 250 N	TOPS THE	N/A	
T.6	Enclosure impact test	13 - 1033	N/A	
	Fall test	WOD3	N/A	
	Swing test		N/A	
T.7	Drop test	(See appended table T.7)	Р	
T.8	Stress relief test	(See appended table T.8)	N/A	
T.9	Impact Test (glass)	No glass used.	N/A	
T.9.1	General requirements		N/A	
T.9.2	Impact test and compliance		N/A	
	Impact energy (J)		_	
MO-3	Height (m)		_	
T.10	Glass fragmentation test		N/A	
T.11	Test for telescoping or rod antennas	No such antennas provided within the equipment.	N/A	
533	Torque value (Nm)		_	
U	MECHANICAL STRENGTH OF CATHODE RAY 1	TUBES (CRT) AND PROTECTION	N/A	
	AGAINST THE EFFECTS OF IMPLOSION			
U.1	General		N/A	
	Instructional safeguard :	No CRT provided.	N/A	
U.2	Test method and compliance for non-intrinsical	lly protected CRTs	N/A	
U.3	Protective screen		N/A	

V	DETERMINATION OF ACCESSIBLE PARTS		
V.1	Accessible parts of equipment		
V.1.1	General	N/A	



Y.4.2

Y.4.3

Y.4.4

Y.4.5

Y.4.6

Y.5

Gasket tests

Tensile strength and elongation tests

Protection of equipment within an outdoor enclosure

Alternative test methods:

Compression test

Oil resistance

Securing means

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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdic
V.1.2	Surfaces and openings tested with jointed test probes	3 TOO S TOO S	N/A
V.1.3	Openings tested with straight unjointed test probes	WUBA WODA	N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe	WORLD WA	N/A
V.1.5	Slot openings tested with wedge probe	MORE MORE	N/A
V.1.6	Terminals tested with rigid test wire	WOBI WOOD	N/A
V.2	Accessible part criterion	UDA WORD	N/A
Х	ALTERNATIVE METHOD FOR DETERMINING CL CIRCUITS CONNECTED TO AN AC MAINS NOT RMS)		N/A
	Clearance:	(See appended table X)	N/A
133			I BID
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDO	OR ENCLOSURES	N/A
Y.1	General	(III)	N/A
Y.2	Resistance to UV radiation	WORK WORK	N/A
Y.3	Resistance to corrosion		N/A
Y.3	Resistance to corrosion		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	J TODY OF	N/A
Y.3.2	Test apparatus	TUDE OF THE	N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A
Y.3.4	Test procedure:	TODA TO TOTAL	N/A
Y.3.5	Compliance		N/A
Y.4	Gaskets		N/A
Y.4.1	General	TODA TO	N/A

(See Annex P.4)

N/A

N/A N/A

N/A

N/A

N/A

N/A



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	IEC 623	368-1		
Clause	Requirement + Test	Result - Remark	Verdict	
Y.5.1	General		N/A	
Y.5.2	Protection from moisture	(10) P	N/A	
10.33	Relevant tests of IEC 60529 or Y.5.3:	TODA TO	N/A	
Y.5.3	Water spray test			
Y.5.4	Protection from plants and vermin	1000	N/A	
Y.5.5	Protection from excessive dust		N/A	
Y.5.5.1	General	CON COURT	N/A	
Y.5.5.2	IP5X equipment		N/A	
Y.5.5.3	IP6X equipment	10 33 Miles	N/A	
Y.6	Mechanical strength of enclosures	TOUR THE	N/A	
Y.6.1	General	UR GUE	N/A	
Y.6.2	Impact test:	(See Table T.6)	N/A	



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					A HIVE
4.1.2 T	ABLE: List of critic	cal components			P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
РСВ	SHENZHEN YING-SEOK CIRCUIT CO LTD	YS-01, YS-02	V-0, 130 ℃	UL796 UL94	UL (E475434)
PCB	Various	Various	V-0, 130℃	UL 796	UL
Plastic inner enclosure	COVESTRO DEUTSCHLAND AG [PC RESINS]	FR6005+(Z)	V-0, 105℃	UL 94	UL E41613
Internal wire	Various	Various	80℃, 300V, VW-1, 26AWG	UL 758	UL
Lithium-ion Battery	Various	ER14505	2700mAh, 3.6V	EN 62133- 2:2017	CE
Supplementa	ry information:	1	M mmBy	MUDE	THE REAL PROPERTY.



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4.8.4, 4.8.5	TABLE: LI	thium coin/button cell batterie	s mechanical tests	N/A	
(The follow	ing mechanica	Il tests are conducted in the seque	ence noted.)		
4.8.4.2	TABLE: St	ress Relief test	The state of the s	—	
F	Part	Material	Oven Temperature (°C)	Comments	
0	a William		70	N/A	
4.8.4.3	TABLE: Ba	ttery replacement test	The state of the s	_	
Battery pa	rt no		TOUR THE PROPERTY OF THE PROPE	_	
Battery Ins	stallation/witho	Irawal	Battery Installation/Removal Cycle	Comments	
	4000	7-10-1	1 1	N/A	
			2	N/A	
			3	N/A	
			4	N/A	
			5	N/A	
			6	N/A	
			7	N/A	
			8	N/A	
			9	N/A	
4000		100	10	N/A	
1.8.4.4	TABLE: Dro	op test		_	
mpact Are	еа	Drop Distance	Drop No.	Observations	
		mnE2		-113	
	- 1	- WOD'S	a Comment of the	10 L	
The same		1000 - T		WURRI	
4.8.4.5	TABLE: Imp	pact		_	
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments	
	100		TUDE 1	m	
NO.					
			000	-	
4.8.4.6	TABLE: Cr	ush test	TO THE REAL PROPERTY OF THE PARTY OF THE PAR	_	
Test	position	Surface tested	Crushing Force (N)	Duration forc applied (s)	
				39 (
		TABLE STATE		- The state of the	



Limit: --

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4.8.5 TABLE: Litl	nium coin/button cell batteries r	mechanical test result	N/A
Test position	Surface tested	Force (N)	Duration force applied (s)
	LOND- Unit		4077
Supplementary inform	mation:		NO TO

5.2	Table: C	lassification of	electrical energy s	ources		C.	P
5.2.2.2	- Steady State	e Voltage and Cu	rent conditions				
	Committee	Location (e.g.			Parameters		
No.	Supply Voltage	circuit designation)	Test conditions 1)	U	I	⊔⊸	ES Class
				(Vrms or Vpk)	(Apk or Arms)	Hz	
	4025	A GIOLES	Normal	1131 -	40772	CALL	
Α	5Vdc	dc Rechargeable Vibrato	Abnormal	-ing/	4000	2	ES1
			Single fault	- Po	1037-	47/08	
Note:	mnB		DE TO		can 33		MODE

5.2.2.3 - Capacitance Limits									
	Supply	Location (e.g.	-	Param	neters	F0 01			
No.	Voltage	circuit designation)	Test conditions	Capacitance, nF	Upk (V)	ES Class			
	1107		W. 13.17	TUDD I	-	CIUB			
000	U		mOB)	TUDE					
7	O. S.	3 100							
Overall	Overall capacity:								

5.2.2.4	- Single Pulse	es						
			ocation (e.g.		Parameters			
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk (V)	lpk (mA)	ES Class	
	Times of	- 403	Normal	W W				
1		3	Abnormal	TULL	1 100	1003-		
J. C.	D VE	MORE	Single fault – SC/OC	The state of the s	WORK	ALOBY.		
5.2.2.5	- Repetitive P	ulses						
No Supply		Location (e.g.			Parameters		o	
No.	Voltage	circuit designation)	Test conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class	



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-	- 62		Normal		- 1		
dino		MAR	Abnormal	29 1		-	B17
Time.	EROTO CO		Single fault – SC/OC	Mr.	D The	1037	a FIDE

Test Conditions:

Normal – Full load and no load. Abnormal – Overload output

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

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurements	D TO	TODAY TODAY	P
	Supply voltage (V):	5V DC	3.7V DC	
10	Ambient Tmin (C):	39.8	39.9	
W A	Ambient Tmax (C):	40.0	40.2	
	Tma (C)	40.0	40.2	
Maximum n	neasured temperature T of part/at:	T (C)	Allowed T _{max} (C)
	internal wire	44.7	44.8	80
THE	battery	44.7	44.6	60
W.	PCB near mainIC	44.2	45.8	130
W W	enclosure	43.3	46.2	77
U	Ambient	41.1	41.4	80

5.4.1.8 Table: working voltage measurement			N/A
Location	RMS voltage (V)	Peak voltage (V)	Comments
1000		4087	- 1
		00	2)
supplementary information:			
Test voltage: Test frequency:	TOBY	100 E	TOP TOP



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5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics				
Penetration (mm)				
Object/ Part No./Material Manufacturer/tra		T softening (°C)	
			33	
supplementary information:			COURT OF THE PERSON OF THE PER	

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics						
Allowed impression diameter (mm) : ≤ 2 mm						
Object/Part	No./Material	Manufacturer/trademark	Test temperature (°C)	Impression dia	meter (mm)	
	411033	1			No.	
Supplement	tary informatio	n: The bobbin material of transfo	rmer (T1) are phenolic, no t	est is needed.		

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum (FABLE: Minimum Clearances/Creepage distance							
) and creepage at/of/between:	Up (V)	U r.m.s. (V)	Frequency (kHz)	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)	
\		BT	0	100 P	1 1100	TI		10377	
1 2 10	Supplementary information: B=Basic insulation, S=Supplementary insulation, R=Reinforced insulation.								

5.4.2.3	TABLE: Minimum Cleara	TABLE: Minimum Clearances distances using required withstand voltage					
no -	Overvoltage Category (O	OV):	0.0097		Miller		
10	Pollution Degree:			(0.87)	-1111		
Clearance	distanced between:	Required withstand voltage	Required cl (mm)	Mea	asured cl (mm)		
1		110	79 OH				

5.4.2.4 TABLE: Clearances based on electric strength test N/A								
Test voltage applied between: Required cl (mm) Test voltage (kV) peak/ r.m.s. / d.c.								
(1)	- W	-mB						
	1	- 6	1					
Supplementary information: Using pro-	cedure 2 to determine the	ne clearance.						



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5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Distance through insulation measurements								
Distance the insulation di		Peak voltage (V)	Frequency (Hz)	Material	Required DTI (mm)	DTI (mm)			
		4.000	(J.10)	-		2000			
	100	(13) (10)				B3 (
	ary informatio sub-clause 5.4		MODE	THE PERSON	TOP				

5.4.9	TABLE: Electric strength tests		1000	N/A
Test voltag	e applied between:	Voltage shape (AC, DC)	Test voltage (Vpeak)	Breakdown Yes / No
		_ 4000		
000		$B_{R} = U_{0R}$		
	ntary information: urce of insulation tape tested, see app	pended table 4.2.1 for de	etail.	

5.5.2.2	TABLE: St	ored discharg	ge on capacito	ors		N/A		
Supply Voltage (V), Hz		Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification		
		3	1000	I ROLL				
		MI MI	133	MULL				

5.6.6.2	TABLE: Resistance of	of protective condu	ictors and terminati	ons	N/A
,	Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
	10	139 O		ww.	MODE
Supplemen	ntary Information:	TUDE			

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive par	TOTAL TOTAL		N/A
Supply volt	tage:			_
Location		Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Tou	ch current (mA)
-		- The same of the	9 6	(10)



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	L'ALL S		The same of the sa
		 100	1100
		A COLUMN TO THE REAL PROPERTY OF THE PARTY O	

Notes:

- [1] Supply voltage is the anticipated maximum Touch Voltage
- [2] Earthed neutral conductor [Voltage differences less than 1% or more]
- [3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3
- [4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.
- [5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler)

6.2.2	Table: Electrical	Table: Electrical power sources (PS) measurements for classification							
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classificatio n				
Battery	Normal	Power (W) :	4.2	5.58					
Pack	0.00	VA (V) :	3.75	3.93	PS1				
	ann Bi	IA (A) :	1.12	1.42	400				

Supplementary information:

(*) Measurement taken only when limits at 3 seconds exceed PS1 limits

6.2.3.1 Table: Determination	on of Potential Ign	ition Sources (Arc	ing PIS)	N/A	
	Open circuit voltage After 3 s	Measured r.m.s	Calculated value	Aroing DIS2	
Location	(Vp)	(Irms)	(V _p x I _{rms})	Arcing PIS? Yes / No	
4037	TO THE		6003	11111	

Supplementary information:

The primary components and T1 having soldered pins in mains circuit (>50V peak) are considered as arcing PIS.

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

6.2.3.2	Table: Dete	Table: Determination of Potential Ignition Sources (Resistive PIS)								
Circuit Loc	cation (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No				
17.72	J. Little		B)	4005	-					



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Supplementary Information:

All power dissipating components in primary and secondary circuit are considered as resistive PIS A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

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

8.5.5 TABLE: High Pressure Lamp	(10)	Tille	N/A
Description	Values	Energy Source Cla	assification
Lamp type:	ans)	_	
Manufacturer	THE PARTY OF THE P	_	
Cat no		_	
Pressure (cold) (MPa)		MS_	333
Pressure (operating) (MPa)		MS_	and the
Operating time (minutes)		_	
Explosion method	COST TO THE	_	
Max particle length escaping enclosure (mm) .:		MS_	A CONTRACTOR OF THE PARTY OF TH
Max particle length beyond 1 m (mm)	TO STATE OF THE PARTY OF THE PA	MS_	
Overall result		000	
Supplementary information:		THE STATE OF THE S	

B.2.5	TABLE	E: Input	test	U.E.	A Marie	THE LETTER	THE STATE OF	P	
U (V) I (A)		I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status		
5	m	0.72	1.0	3.6	Oliver Contract	11- D	an B	Normal operation	
Supplement	ary info	rmation:	333	Militar					
The maximu	ım mea	sured cu	rrent under r	ated voltag	e did not exceed	d 110% of tl	ne rated cu	rrent.	

B.3 & B.4	TABLE: Abnorma	al operatin	g and fau	It conditio	n tests	NO.	Р
1000	Ambient temper	ature (℃)			25.1 -	- 25.3	
OB)	Power source for model/type, outp				TI JENS		
Component No.	Fault	Supply voltage (Vdc)	Test time	Fuse #	Fuse current (A)	Observation	on
Battery output	S-C	3.6	10min	OF THE	33 ((1))	Unit normal operation, no damaged, no hazards.	
U1 pin 3-7	S-C	3.6	10min	000	-	Protected, no damag	jed, no



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R5	S-C	3.6	10min		WOO!	Protected, no damaged, no hazards
Supplementary	information:	an B		CO.		The same

Annex M T	ABLE: Batte	eries		100	NJ -			MA	P
The tests of A	nnex M are	applicable	only when app	oropriate b	attery da	ta is not ava	ailable		Grins
Is it possible to	install the l	pattery in a	reverse polar	ity position	1? :	It's ob	vious impo	ssible	
	Non-re	chargeable	e batteries			Rechargea	ble batterie	es	
	Disch	Discharging		Cha	rging	Disch	arging	Reversed	l charging
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.		Manuf. Specs.	Meas. current	Manuf. Specs.
charging bas	е								
Max. current during normal condition		23	TROE	975mA	1350m	132mA	1350mA	7.170	TOB
Max. current during U2 Pin1-4 SC fault condition		33- T	A CIUE	1123m A	1350m <i>l</i>		TOBY	10B1 <u>2</u>	TODY.
Max. current during U1 Pin1-8 SC fault condition	- EUI	0000	TOBY T		13 F	1106mA	1350mA		D.C
Test results:		Millions	A W		3	MUR	9	ann	Verdict
- Chemical lea	ks			1 Aller		No chemica	al leaks		Р
- Explosion of	the battery					No explosio	on	TO DE	Р
- Emission of flame or expulsion of molten metal No emission of flame or expulsion of molten metal						Р			
Electric strength tests of equipment after completion of tests No test require								N	

Annex M.4 Table: Add batteries	itional safeguards for equ	uipment contai	ning seconda	ry lithium	P	
Battery/Cell	Test conditions	Measurements			Observation	
No.		U (V)	I (A)	Temp (C)		
main engine	Normal	4.17	1076	38.3	Unit normal operation, no hazard.	



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Annex M.4	batteries	ional safeguards for ed	quipment conta	iining secondar	y lithium	P
main	engine	U2 Pin1-4 SC	4.18	1045	39.2	Unit normal operation, no hazard.
	eary Information	n: Open-circuited	1031	100		TULL

Battery identificat		Charging at T _{lowest} (°C)	Observation	Charging at T _{highest} (°C)	Observation
TODE -	108	0	Battery charge current: 932mA Unit normal operation, no damaged, on hazards.	60	No charge current to battery

Supplementary Information:

Note 1: Manufacturer indicating the temperature(for battery body) exceed 45°C±5°C, Battery cannot charge.

Annex Q.1	TABLE: Circuits inten	ded for interco	nnection with	building wirin	g (LPS)	P	
Note: Mea	sured UOC (V) with all lo	ad circuits disco	nnected:				
Output	Components	U _{oc} (V)	I _{sc}	I _{sc} (A)		S (VA)	
Circuit			Meas.	Limit	Meas.	Limit	
Wireless he	adphone		The same	Bu and		1027	
Battery Pack	Normal condition	4.20	1.12	8	4.2	100	
117 10 1	ntary Information: circuit, OC=Open circuit	TOTAL	TOBY	en and	MOBIS OF	TOP	

T.2, T.3, T.4, T.5	TABLE	E: Steady force t	est			P
Part/Loca	ation	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Complete enclosu		Rubber	OBY-TOB	100	5	After test, enclosure remained intact, no cracking/opening developed in the enclosure joint.
Internal		DI TUDI	10 18	5	No insulation breakdown. No reduction the clearances and creepage distances	



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T.6, T.9	TAB	LE: Impact tests			N/A
Part/Locat	ion	Material	Thickness (mm)	Vertical distance (mm)	Observation
	N.	4077			TODAY TODAY
Supplementa	ary inf	ormation:			

E: Drop tests	192	VIU	P
Material	Thickness (mm)	Drop Height (mm)	Observation
Rubber	TOBY I	1 000 mm	After test, enclosure remained intact, no cracking/opening developed in the enclosure joint.
	Material	Material Thickness (mm)	Material Thickness Drop Height (mm) (mm)

Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Complete EUT	Plastic	-	70	7	Enclosure remained intact, no cracking/opening developed in the enclosure joint. No insulation breakdown



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EUT Photos

Photo 1 External of EUT



Photo 2 External of EUT



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Photo 4 External of EUT



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Photo 5 External of EUT



Photo 6 External of EUT



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Photo 7 Internal view of EUT



Photo 8 Internal view of EUT



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Photo 9 PCB view of EUT

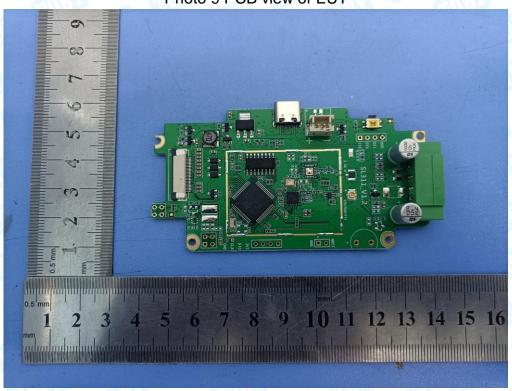
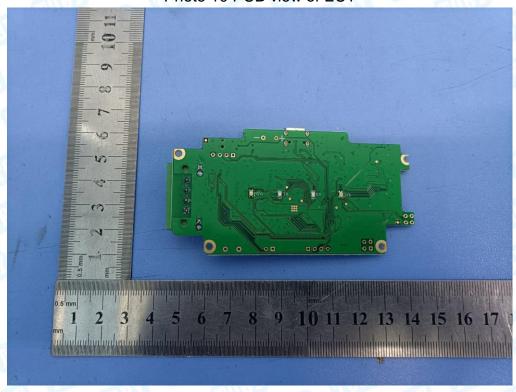


Photo 10 PCB view of EUT





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Appendix No.2: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

IEC62368_1E - ATTACHMENT					
Clause	Requirement + Test		Result - Remark	Verdict	

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

Attachment Form No..... EU_GD_IEC62368_1E

Attachment Originator: UL(Demko)

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

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	CENELEC COMMON MOD	DIFICATIONS (EN)	(Barrell
	IEC 62368-1:2020+A11:202 those in the paragraph belo	that are shaded light grey are clause references in EN 20. All other clause numbers in that column, except for w, refers to IEC 62368-1:2018.	P
(1997)	Clauses, subclauses, notes those in IEC 62368-1:2018	, tables, figures and annexes which are additional to are prefixed "Z".	
	Add the following annexes:		P
	Annex ZA (normative)	Normative references to international publications 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	
1	Modification to Clause 3.		Р
3.3.19	Sound exposure Replace 3.3.19 of IEC 6236	68-1 with the following definitions:	N/A

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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.	
	Gridinicis, Bused on Etv 55552 1.2016, 4.2.	
	Note 1 to entry: MEL is measured as A-weighted	
	levels in dB.	
	Note 2 to entry: See B.3 of EN 50332-3:2017 for	
	additional information.	1
3.3.19.3	sound exposure, E	N/A
	A-weighted sound pressure (p) squared and	MAG
	integrated over a stated period of time, T	
	Note 1 to entry: The SI unit is Pa ² s.	
	T	
	$E = \int p(t)^2 \mathrm{d}t$	A A COMMENT
	$E = \int P(t) dt$	
	0	THE WALL
3.3.19.4	sound exposure level, SEL	N/A
	logarithmic measure of sound exposure relative to	
	a reference value, E0, typically the 1 kHz	
	threshold of hearing in humans.	
	Note 1 to entry: SEL is measured as A-weighted	
	levels in dB.	
	$SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$	
	(E ₀) dB	J HAT
	No. 10 (10 (10 (10 (10 (10 (10 (10 (10 (10	
	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 dPCC are always r.m.s. Full scale	MAC
	levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-	
	Hz sine wave whose undithered positive peak	
	value is positive digital full scale, leaving the code	
	corresponding to negative digital full scale unused	
	Note 1 to entry: It is invalid to use dBFS for non-	
	r.m.s. levels. Because the definition of full scale is	LAIT.
	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	1:49
	may reach +3,01 dBFS.	
2	Modification to Clause 10	Р
10.6	Safeguards against acoustic energy sources	N/A
	Replace 10.6 of IEC 62368-1 with the following:	
10.6.1.1	Introduction	N/A



Appendix No.2: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Safeguard requirements for protection against long-term exposure to excessive sound pressure levels from personal music players closely coupled to the ear are specified below. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment intended for use by an ordinary person, that:

- is designed to allow the user to listen to audio or audiovisual content / material; and
- uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and
- has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.).

EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment.

Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3.

NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360.

NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose

measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.

Listening devices sold separately shall comply with the requirements of 10.6.6.

These requirements are valid for music or video mode only.

The requirements do not apply to:

professional equipment;

NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through

normal electronics stores are considered not to be professional equipment.

- hearing aid equipment and other devices for assistive listening;
- the following type of analogue personal music players:
- long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and



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	cassette player/recorder;	AMOR
10 P	NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.	
	- a player while connected to an external amplifier that does not allow the user to walk around while in use.	133
33	For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply.	
Em.	The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	
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). For intentional radiators, ICNIRP guidelines should	TOBY
	be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand- held and body mounted devices, attention is drawn to EN 50360 and EN 50566.	033
10.6.2	Classification of devices without the capacity to estimate sound dose	N/A
10.6.2.1	General	N/A
	This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. For classifying the acoustic output <i>L</i> Aeq, <i>T</i> ,	
	measurements are based on the A-weighted equivalent sound pressure level over a 30 s period.	400
	For music where the average sound pressure (long term <i>L</i> Aeq, <i>T</i>) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song.	TOBE
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressure	



TOBY

	Manufacture I Ann To 1212 and 1 at 2		
	(long term LAeq, T) which is much lower than the		
ALL IN	average programme simulation noise. Therefore, if		
11115	the player is capable to analyse the content and		
	compare it with the programme simulation noise,	MAIN.	
100	the warning does not need to be given as long as		
	the average sound pressure of the song does not		
	exceed the required limit.		
1.00	For example, if the player is set with the		
15.00	programme simulation noise to 85 dB, but the		
	average music level of the song is only 65 dB,	THE STATE OF THE S	
	there is no need to give a warning or ask an		
	acknowledgement as long as the average sound		
C-19 10	level of the song is not above the basic limit of 85		
10.6.2.2	dB. RS1 limits (to be superseded, see 10.6.3.2)	N/A	
10.6.2.2	Not limits (to be superseded, see 10.0.0.2)	IN/A	, 3
	RS1 is a class 1 acoustic energy source that does		
11 10	not exceed the following:		
A STATE OF	- for equipment provided as a package (player with		
	its listening device), and with a proprietary		
	connector between the player and its listening	TILL LINE	
	device, or where the combination of player and		
11111	listening device is known by other means such as		
A Bridge	setting or automatic detection, the LAeq, T acoustic		
	output shall be ≤ 85 dB when playing the fixed	N. C.	
	"programme simulation noise" described in EN		
	50332-1.		
A COL	 for equipment provided with a standardized 		
111000	connector (for example, a 3,5 phone jack) that		
A Comment	allows connection to a listening device for general		
	use, the unweighted r.m.s. output voltage shall be		
	≤ 27 mV (analogue interface) or -25 dBFS (digital		
	interface) when playing the fixed "programme	THE WAY	
1 10 10	simulation noise" described in EN 50332-1.		
11	- The RS1 limits will be updated for all devices as	11.11	
	per 10.6.3.2.		
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	N/A	4
	RS2 is a class 2 acoustic energy source that does	A HILL	
- 30	not exceed the following:		
	for equipment provided as a package (player with)		
	its listening device), and with a proprietary		
6.1111	connector between the player and its listening		
A CO	device, or when the combination of player and		
135	listening device is known by other means such as		
	setting or automatic 130 detection, the LAeq, T		
	acoustic output shall be ≤ 100 dB(A) when playing	CALLED - DAIS	
	the fixed "programme simulation noise" as		
TILLE	described in EN 50332-1.		
A REAL PROPERTY.	for equipment provided with a standardized		
	connector (for example, a 3,5 phone jack) that		
	allows connection to a listening device for general		
		THE PARTY OF THE P	
11 11 1	use, the unweighted r.m.s. output voltage shall be		
100	≤ 150 mV (analogue interface) or -10 dBFS (digital		
	interface) when playing the fixed "programme		
	simulation noise" as described in EN 50332-1.		- 11
10.6.2.4	RS3 limits	N/A	



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	RS3 is a class 3 acoustic energy source that	
ALL	exceeds RS2 limits.	71/8/9
10.6.3	Classification of devices (new)	N/A
10.6.3.1	General	N/A
	Previous limits (10.6.2) created abundant false	
	negative and false positive PMP sound level	2,0
	warnings. New limits, compliant with The	
	Commission Decision of 23 June 2009, are given	
	below.	
0.6.3.2	RS1 limits (new)	N/A
	RS1 is a class 1 acoustic energy source that does	
	not exceed the following:	
	- for equipment provided as a package (player	
	with its listening device), and with a proprietary	
	connector between the player and its listening	
	device, or where the combination of player and	
	listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acoustic	A N. V.
	output shall be ≤ 80 dB when playing the fixed	
	"programme simulation noise" described in EN	
	50332-1.	
	- for equipment provided with a standardized	
	connector (for example, a 3,5 phone jack) that	
	allows connection to a listening device for general	
	use, the unweighted r.m.s. output voltage shall be	1.50
	≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme"	
	simulation noise" described in EN 50332-1.	
0.6.3.3	RS2 limits (new)	N/A
	RS2 is a class 2 acoustic energy source that does	
	not exceed the following:	
	 for equipment provided as a package (player with its listening device), and with a proprietary 	
	connector between the player and its listening	DAIL.
	device, or where the combination of player and	
	listening device is known by other means such as	
	setting or automatic detection, the weekly sound	
	exposure level, as described in EN 50332-3, shall	
	be ≤ 80 dB when playing the fixed "programme	
	simulation noise" described in EN 50332-1.	
	 for equipment provided with a standardized connector (for example, a 3,5 phone jack) that 	6.311
	allows connection to a listening device for general	
	use, the unweighted r.m.s. output level, integrated	8.17.1
	over one week, as described in EN50332-3, shall	
	be ≤ 15 mV (analogue interface) or -30 dBFS	
	(digital interface) when playing the fixed	Tilliz
	"programme simulation noise" described in EN	A RATE
10.6.4	50332-1. Requirements for maximum sound exposure	N/A
0.6.4.1	Measurement methods	
. J.U.T. I	incubation incurves	N/A



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	All volume controls shall be turned to maximum		
	All volume controls shall be turned to maximum during tests.	The same of the sa	
	Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.		
10.6.4.2	Protection of persons		٨
	Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.	1000	
	NOTE 1 Volume control is not considered a safeguard.		
	Between RS2 and an ordinary person , the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual.	TOBY TOBY	
	Alternatively, the instructional safeguard may be given through the equipment display during use.	0.00	
	The elements of the instructional safeguard shall be as follows:	The state of the s	
	- element 1a: the symbol , IEC 60417-6044 (2011-01) - element 2: "High sound pressure" or equivalent	W Comment	
	wording – element 3: "Hearing damage risk" or equivalent wording	3	
	element 4: "Do not listen at high volume levels for long periods." or equivalent wording		
	An equipment safeguard shall prevent exposure of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1	TOD I	
	source when the power is switched off. The equipment shall provide a means to actively	W. S.	
	inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a		
	mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.		
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.		
	NOTE 3 The 20 h listening time is the accumulative		



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	Protection Constitution of the other states		
	listening time, independent of how often and how		
ALL VIEW	long the personal music player has been switched		
	off.		
	A altitled person shall not be unintentionally.	THIS.	
	A skilled person shall not be unintentionally		
40 C F	exposed to RS3.		
10.6.5	Requirements for dose-based systems		N/A
10.6.5.1	General requirements		N/A
	Personal music players shall give the warnings as	H L	
	provided below when tested according to EN		
	50332-3, using the limits from this clause.		
F. W. A.			
	The manufacturer may offer optional settings to		
	allow the users to modify when and how they wish		
	to receive the notifications and warnings to	HILL	
6.11	promote a better user experience without defeating		
10.75	the safeguards. This allows the users to be		
	informed in a method that best meets their physical		
9	capabilities and device usage needs. If such		
	optional settings are offered, an administrator (for	11111	
	example, parental restrictions,		
	business/educational administrators, etc.) shall be		
1	able to lock any optional settings into a specific		
	configuration.		
	The personal music player shall be supplied with		
11 11 11 11	easy to understand explanation to the user of the		
7/1/	dose management system, the risks involved, and		
The same of the sa	how to use the system safely. The user shall be	ALL HILL	
	made aware that other sources may significantly		
	contribute to their sound exposure, for example	100	
	work, transportation, concerts, clubs, cinema, car		
	races, etc.		
10.6.5.2	Dose-based warning and requirements		N/A
		H	1 1/7
Title 1	When a dose of 100 % CSD is reached, and at		
	least at every 100 % further increase of CSD, 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.		
61111		The state of the s	
	The warning shall at least clearly indicate that		
	listening above 100 % CSD leads to the risk of		
	hearing damage or loss.		
10.6.5.3	Exposure-based requirements		N/A
A I I	With only dose-based requirements, cause and		
	effect could be far separated in time, defying the	THE PARTY OF THE P	
	purpose of educating users about safe listening		
	practice. In addition to dose-based requirements,	11.3	
	a PMP shall therefore also put a limit to the short-		
1150	term sound level a user can listen at.		
1 1 3		C. T. L.	
550	The exposure-based limiter (EL) shall automatically	M R.	



Appendix No.2: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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	150 mV integrated over the past 180 s, based on		CALL
	methodology defined in EN 50332-3.		J. In Contract of
	The EL settling time (time from starting level		
17 19 18	reduction to reaching target output) shall be 10 s or		
R. Janes	faster.		
	laster.		11811
	T		11113
	Test of EL functionality is conducted according to		A STATE OF THE PARTY OF THE PAR
The state of	EN 50332-3, using the limits from this clause. For		
7/1/1/20	equipment provided as a package (player with its		6
	listening device), the level integrated over 180 s		
	shall be 100 dB or lower. For equipment provided		110
	with a standardized connector, the unweighted		D 20
	level integrated over 180 s shall be no more than		2
11 11 14	150 mV for an analogue interface and no more		
	than -10 dBFS for a digital interface.		
No.	than - 10 dbi 5 for a digital interface.		E7 10
	NOTE to see the second is lower and to be revein		184
	NOTE In case the source is known not to be music		
B B B B	(or test signal), the EL may be disabled.		9
10.6.6	Requirements for listening devices (headphones,	, earphones, etc.)	Р
10.6.6.1	Corded listening devices with analogue input		NI/A
10.0.0.1	Corded listering devices with analogue input		N/A
	With 04 dD / And acquetic procesure output of the		
	With 94 dB LAeq acoustic pressure output of the		
11/11/11	listening device, and with the volume and sound		
	settings in the listening device (for example, built-in	A William	
	volume level control, additional sound features like		-4101
	equalization, etc.) set to the combination of	4 1 9 4	1115
THE RESERVE	positions that maximize the measured acoustic	The state of the s	
	output, the input voltage of the listening device		
HILL	when playing the fixed "programme simulation		
	noise" as described in EN 50332-1 shall be ≥ 75		
	mV.		A M
- N			3 18-20
	NOTE The values of 94 dB and 75 mV correspond		
1.00	with 85 dB and 27 mV or 100 dB and 150 mV.		
10.6.6.2	Corded listening devices with digital input	7777.73	21/0
10.0.0.2	Corded listerling devices with digital input	UNIVERSE OF THE PARTY OF THE PA	N/A
	White and also decides also in a the first		
- MIM	With any playing device playing the fixed		
	"programme simulation noise" described in EN		
	50332-1, and with the volume and sound settings in		
	the listening device (for example, built-in volume		6.41
	level control, additional sound features like		10 B
	equalization, etc.) set to the combination of		
BINIE	positions that maximize the measured acoustic		
	output, the LAeq, T acoustic output of the listening	U II II	33
	device shall be ≤ 100 dB with an input signal of -10		
9	dBFS.		1 1 1 1 1 1
10.6.6.3	Cordless listening devices		N/A
10101010	Gordings motoring dovidos		IN/A
11111	In cordless mode,		
A M. Assessment			
	- with any playing and transmitting device playing		
	the fixed programme simulation noise described in		1/7/7/
	EN 50332-1; and	THE STATE OF THE S	
	 respecting the cordless transmission standards, 		
1111	where an air interface standard exists that specifies		6
1	the equivalent acoustic level; and		
	 with volume and sound settings in the receiving 		· 1
67.1	device (for example, built-in volume level control,		
AND PROPERTY.		The state of the s	3 38



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10.6.6.4	to m p o a	the combinate the combinate the combined the	nd features lik ation of position bustic output for mulation noise istening device al of -10 dBFS. t method	ons that maxor the above e, the <i>L</i> Aeq, e shall be ≤	imize the mentioned T acoustic		1033	N/A
1337	٨	Measurement	's shall be mad s applicable.	de in accoro	lance with			IN/A
3	N	lodification	to the whole	document				-
		elete all the st:	"country" note	es in the refe	erence docume	ent according	to the following	Р
		0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	
	11	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	
		5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	
		5.4.2.3.2.4 Table 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	67
		5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	
		5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	
		5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	13
		8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	5
		10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
		Y.4.5	Note					
				- I				6.0
4		odification						Р
1	۸	lectrical and	ving note: use of certain electronic equ see Directive	uipment is re	estricted			P



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5	Modification to 4.Z1	N/A
5 4.Z1	Add the following new subclause after 4.9: To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as	N/A N/A
	providing protection in accordance with the rating of the wall socket outlet.	1999
6	Modification to 5.4.2.3.2.4	N/A
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	N/A
7	Modification to 10.2.1	N/A
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.	N/A



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8	Modification to 10.5.1	N/A
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measurement under the following conditions:	N/A
	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.	0.03
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.	THE STATE
	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.	1033
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	3
9	Modification to G.7.1	N/A
G.7.1	Add the following note: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	N/A



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10	Modification to Bibliography	N/A
TAME	Add the following notes for the standards indicated:	N/A
	IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2. IEC 60309-1 NOTE Harmonized as EN 60309-1. IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4. IEC 60664-5 NOTE Harmonized as EN 60664-5. IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified). IEC 61508-1 NOTE Harmonized as EN 61558-1. IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1. IEC 61558-2-4 NOTE Harmonized as EN 61558-2-6. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-21 NOTE Harmonized as EN 61643-21. IEC 61643-311 NOTE Harmonized as EN 61643-311. IEC 61643-321 NOTE Harmonized as EN 61643-321.	N/A
11	IEC 61643-331 NOTE Harmonized as EN 61643-331. ADDITION OF ANNEXES	N/A
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	N/A
4.1.15	Denmark, Finland, Norway and Sweden	N/A
	To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.	
3	The marking text in the applicable countries shall be as follows:	00
1087	In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In Finland : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In Norway : "Apparatet må tilkoples jordet stikkontakt" In Sweden : "Apparaten skall anslutas till jordat uttag"	



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4.7.3	United Kingdom	N/A
	To the end of the subclause the following is added:	
5.2.2.2	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex Denmark	N/A
3.2.2.2	Denmark	N/F
	After the 2nd paragraph add the following:	
	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.	
5.4.11.1 and	Finland and Sweden	N/A
Annex G	To the end of the subclause the following is added:	
	For separation of the telecommunication network from earth the following is applicable:	
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	TOBIS
	two layers of thin sheet material, each of which shall pass the electric strength test below, or	B3 (0)
	 one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. 	
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	TOUS TOUR
	 passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), 	
	and	
	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.	TOBY OF
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	The Court of the C
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under	100





	the following conditions:	ARY FRU
	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;	TOBY
	the additional testing shall be performed on all the test specimens as described in EN 60384- 14;	0000
	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	
5.5.2.1	Norway 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).	
5.5.6	Finland, Norway and Sweden To the end of the subclause the following is added:	N/A
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	B13
5.6.1	Denmark	N/A
	Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification:	
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	4000
5.6.4.2.1	Ireland and United Kingdom After the indent for pluggable equipment type A, the following is added: — the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	N/A
5.6.4.2.1	France	N/A
M	After the indent for pluggable equipment type A , the following is added: – in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A.	



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5.6.5.1	To the second paragraph the following is added:	N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm² to 1,5 mm² in cross-sectional area.	031
5.6.8	Norway	N/A
	To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as class I equipment . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	
5.7.6	Denmark	N/A
	To the end of the subclause the following is added:	
	The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	(10)33



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5.7.6.2	Denmark	N/A
	To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	TODOS
5.7.7.1	Norway and Sweden	N/A
	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	(TO)33
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing — and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. 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)"	MOI S
	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):	The same
	"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."	



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TOBY	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 nd dash bullet in 3 rd paragraph:	N/A
33	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.	MUBY W
B.3.1 and B.4	The following is applicable:	P
	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	



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G.4.2	Denmark		N
	To the end of the subclause the following is added:		
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.		
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.		
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	TOBY TOBY	
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	133 (TO1)33	
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	1000	
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	MODE THE	
	Justification:		
1 6	Heavy Current Regulations, Section 6c		
G.4.2	United Kingdom		N
	To the end of the subclause the following is added:		
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.		



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G.7.1	United Kingdom	N/A
$\sigma \eta \sigma$	To the first paragraph the following is added:	101
	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those regulations.	
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	
G.7.1	Ireland	N/A
	To the first paragraph the following is added:	
TO!	Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	1033
G.7.2	Ireland and United Kingdom	N/A
	To the first paragraph the following is added:	
E	A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	J. There



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ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	N/A
10.5.2	Germany	N/A
	The following requirement applies:	AU
	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.	
3	Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	3 (10) 23
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de	600

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Appendix No.2: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Type of flexible cord	Code designations	
	IEC	CENELEC
PVC insulated cords	L	
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility	•	
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H
Cords insulated and sheathed with halogen- free thermoplastic compounds		
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-

-- Ended of report--