

TEST REPORT IEC 62368-1

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

Report Number.....: EED31Q801056

Tested by (name + signature).....: John Tang

Reviewed by (name + signature)...: Jacky Chen

Approved by (name + signature)..: King Li

Date of issue..... Mar. 05. 2024

81 (including 2 attachments) Total number of pages.....:

Testing Laboratory...... Centre Testing International Group Co., L

Hongwei Industrial Zone, Badan 70 District, Shenzhen, Guangdong, Address....::

China

Shenzhen CheBoTong Technology co., Ltd. Applicant's name....:

Room 5C, 5th Building 2, BanDao Chengbang Garden 2th, East Angle Address....:

Head Golden Century Road, Shekou Street, Nanshan District shenzhen

518000 China

Test specification:

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

Test procedure....: Test report

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

Test Report Form No.....: IEC62368_1E

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

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

Test Item description....:: iCarPro 2S

Trade Mark....:: Vgate, vLinker

Manufacturer....: Same as applicant

Model/Type reference....: CV306

12V===45mA Ratings:

Check No.: 6154230124

Lab Supervisor



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

- Attachment 1 (27 pages): European group difference and national differences
- Attachment 2 (6 pages): Product photos

Summary of testing:

Tests performed (name of test and test clause):

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

EN IEC 62368-1:2020+A11:2020

Testing location:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Summary of compliance with National Differences:

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

Copy of marking plate



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

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

Note: According to ProdSG Art. 6 when placing the products on the market the authorized representative / importer within the European Economic Area (EEA) must be marked on the product if the manufacturer is not located within the EEA. Marking on the packaging is only acceptable if it is not possible to place such markings on the product.







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Test item particulars:	
Product group	.: 🖂 end product 🗌 built-in component
Classification of use by	.: ⊠ Ordinary person
(C.)	Skilled person
Supply connection	
	□ not mains connected: □ □
65	⊠ ES1 □ ES2 □ ES3
Supply tolerance	
	□ +20%/-15% □ + %/ - %
	
Summit control in time	
Supply connection – type	.: ☐ pluggable equipment—type A - ☐ non-detachable supply cord
	☐ appliance coupler
	☐ direct plug-in
	☐ pluggable equipment type B -
	□ non-detachable supply cord
	☐ appliance coupler
	☐ permanent connection
	☐ mating connector
	other: Not directly connect to mains
Considered current rating of protective device	☐ A; ∴ Location: ☐ building ☐ equipment
464166	N/A □ Duliding □ equipment
Equipment mobility	
	☐ direct plug-in ☐ stationary ☐ for building-
	□ wall/ceiling-mounted□ SRME/rack-mounted□ other:
Overvoltage category (OVC)	
	☐ OVC IV ☑ other: Not directly connect to
	mains
Class of equipment	.: ☐ Class I ☐ Class II ☐ Class III ☐ Not classified ☐
Special installation location	
	☐ outdoor location☐
Pollution degree (PD)	.: □ PD 1
Manufacturer's specified Tma	: 70 °C 🗌 Outdoor: minimum °C
IP protection class	.: ⊠ IPX0 □ IP
Power systems	
2010-0	☐ not AC mains
Altitude during operation (m)	: \boxtimes 2000 m or less \square m
Altitude of test laboratory (m)	.: ⊠ 2000 m or less □ m
Mass of equipment (kg)	: Approx. 0.02kg

工作测	林沙川	Page 4 of 48	Report No.: E	ED31Q801056
POSSIBLE TEST CA	SE VERDICTS:	(247)	(5/1)	(2)
test case does not a	pply to the test object.	: N/A		6
test object does mee	et the requirement	: P (Pass)		
test object does not i	meet the requirement.	F (Fail)	· > /	5
ESTING:	(6)	(e)	(c)	(4)
ate of receipt of test	item	2024-02-04		
ate (s) of performand	ce of tests	2024-02-04 t	o 2024-02-22	
SENERAL REMARK	S:	(0)	(C)	(6.
/hen determining the hroughout this report		Measurement Uncertainty point is used as the decimal		(c)
SENERAL PRODUC	: (2	9	<u> </u>	(7)
	ep Tracker which is C nunication technology		ied by 12Vdc, and used for	Audio/video,
he maximum operat	ing temperature is 70	°C.		
Model Differences:				64
additional application	on considerations –	(Considerations used t	o test a component or sul	o-assembly)
(cit)	(c)			



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	Page 5 01 48	/	Report No.:	EED3 IQ80 IU	
OVERVIEW OF ENERGY SOL	IRCES AND SAFEGUARDS				
Clause	Possible Hazard	Possible Hazard			
5	Electrically-caused injury				
Class and Energy Source	Body Part		Safeguards		
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R	
ES1: All circuits	Ordinary	N/A	N/A	N/A	
6	Electrically-caused fire				
Class and Energy Source	Material part		Safeguards		
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S	
PS3: >100W	All circuits	See 6.3	See 6.4.6	N/A	
7	Injury caused by hazardous	substances			
Class and Energy Source	Body Part		Safeguards		
(e.g. Ozone)	(e.g., Skilled)	В	S	R	
N/A	N/A	N/A	N/A	N/A	
8	Mechanically-caused injury				
Class and Energy Source	Body Part		Safeguards		
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R	
MS1: Equipment mass	Ordinary	N/A	N/A	N/A	
MS1: Edges and corners	Ordinary	N/A	N/A	N/A	
9	Thermal burn				
Class and Energy Source	Body Part		Safeguards		
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R	
TS1: Accessible parts	Ordinary	N/A	N/A	N/A	
TS3: Internal components	Ordinary	N/A	N/A	Enclosure	
10	Radiation				
Class and Energy Source	Body Part		Safeguards		
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R	
RS1: LED indicator	Ordinary	N/A	N/A	N/A	
Supplementary Information:					

Supplementary Information:

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

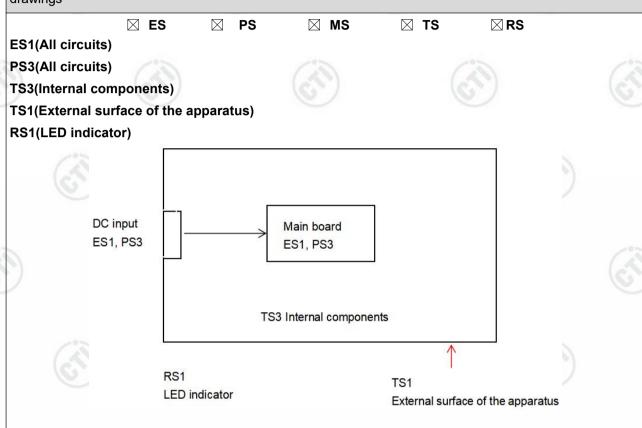


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ENERGY SOURCE DIAGRAM

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

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







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		1 490 1 01 10	T toport i to:	
(*)		IEC 62368-1		(6)
Clause	Requirement + T	est	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		P P
4.1.1	Acceptance of materials, components and subassemblies See appended table 4.1.2		
4.1.2	Use of components	Safeguard components are certified to IEC and/or national	Р
	(17:3)	standards and are used correctly within their ratings.	
4.1.3	Equipment design and construction		Р
4.1.4	Specified ambient temperature for outdoor use (°C)		N/A
4.1.5	Constructions and components not specifically covered		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	(6,1)	Р
4.4.3.1	General	See below	Р
4.4.3.2	Steady force tests	(See Clause T.5)	Р
4.4.3.3	Drop tests		N/A
4.4.3.4	Impact tests	(See Annex T.6)	Р
4.4.3.5	Internal accessible safeguard tests		N/A
4.4.3.6	Glass impact tests		N/A
4.4.3.7	Glass fixation tests	(6,7)	N/A
	Glass impact test (1J)		N/A
	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Clause T.8)	Р
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness		N/A
4.4.4	Displacement of a safeguard by an insulating liquid	105	N/A
4.4.5	Safety interlocks	(5/2)	N/A
4.5	Explosion		Р
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions.	Р
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	Р
	No harm by explosion during single fault conditions	(See Clause B.4)	Р



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.6	Fixing of conductors		N/A
(6	Fix conductors not to defeat a safeguard		N/A
	Compliance is checked by test		N/A
4.7	Equipment for direct insertion into mains sock	et-outlets	N/A
4.7.2	Mains plug part complies with relevant standard		N/A
4.7.3	Torque (Nm)	(C)	N/A
4.8	Equipment containing coin/button cell batteries	S	N/A
4.8.1	General	No coin/button cell batteries used.	N/A
4.8.2	Instructional safeguard		N/A
4.8.3	Battery compartment door/cover construction		N/A
	Open torque test	-05	N/A
4.8.4.2	Stress relief test	(25)	N/A
4.8.4.3	Battery replacement test		N/A
4.8.4.4	Drop test		N/A
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test		N/A
4.8.5	Compliance		N/A
	30N force test with test probe	405	N/A
6)	20N force test with test hook		N/A
4.9	Likelihood of fire or shock due to entry of cond	luctive object	Р
4.10	Component requirements		N/A
4.10.1	Disconnect Device		N/A
4.10.2	Switches and relays	(전기)	N/A

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sources		Р
5.2.2	ES1, ES2 and ES3 limits	(6)	Р
5.2.2.2	Steady-state voltage and current limits:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits:	No such capacitor.	N/A
5.2.2.4	Single pulse limits:	No such single pulse.	N/A
5.2.2.5	Limits for repetitive pulses:	No such repetitive pulses.	N/A
5.2.2.6	Ringing signals	No such ringing signals.	N/A



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")	IEC 62368-1	(6,7,2)	(6)
Clause	Requirement + Test	Result - Remark	Verdict
5.2.2.7	Audio signals	(See Annex E)	Р
5.3	Protection against electrical energy sources		Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	Ordinary person	Р
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	Only ES1 circuit and the enclosure (safeguard) are accessed to person	P
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors		N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	(4)	N/A
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2	Contact requirements		N/A
1	Test with test probe from Annex V		_
5.3.2.2 a)	Air gap – electric strength test potential (V):		N/A
5.3.2.2 b)	Air gap – distance (mm):		N/A
5.3.2.3	Compliance		N/A
5.3.2.4	Terminals for connecting stripped wire	(2)	N/A
5.4	Insulation materials and requirements		Р
5.4.1.2	Properties of insulating material		N/A
5.4.1.3	Material is non-hygroscopic		N/A
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table)	P
5.4.1.5	Pollution degrees:	2	Р
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		N/A
5.4.1.5.3	Thermal cycling test		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:		N/A
5 4 4 0			N/A
5.4.1.9	Insulating surfaces		
	Thermoplastic parts on which conductive metallic parts are directly mounted		N/A
5.4.1.9 5.4.1.10 5.4.1.10.2	Thermoplastic parts on which conductive metallic		N/A N/A





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·)	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.2	Clearances	-0-	N/A
5.4.2.1	General requirements	(17)	N/A
	Clearances in circuits connected to AC Mains, Alternative method		N/A
5.4.2.2	Procedure 1 for determining clearance	C°D	N/A
7)	Temporary overvoltage:	(62)	_
5.4.2.3	Procedure 2 for determining clearance		N/A
5.4.2.3.2.2	a.c. mains transient voltage:		_
5.4.2.3.2.3	d.c. mains transient voltage:	(1)	_
5.4.2.3.2.4	External circuit transient voltage		_
5.4.2.3.2.5	Transient voltage determined by measurement:		_
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	(c,f)	N/A
5.4.2.5	Multiplication factors for clearances and test voltages		N/A
5.4.2.6	Clearance measurement:	C'A	N/A
5.4.3	Creepage distances		N/A
5.4.3.1	General		N/A
5.4.3.3	Material group		_
5.4.3.4	Creepage distances measurement:		N/A
5.4.4	Solid insulation		N/A
5.4.4.1	General requirements		N/A
5.4.4.2	Minimum distance through insulation:	· · ·	N/A
5.4.4.3	Insulating compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material		N/A
_0	Number of layers (pcs)		N/A
5.4.4.6.3	Non-separable thin sheet material		N/A
160	Number of layers (pcs):		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material		N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components	(6.17)	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)		N/A
	Alternative by electric strength test, tested voltage (V), K _R :		N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test	000	N/A
5.4.5.3	Insulation resistance (M Ω):		N/A
	Electric strength test		N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard		N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning		N/A
6	Relative humidity (%), temperature (°C), duration (h)		_
5.4.9	Electric strength test		N/A
5.4.9.1	Test procedure for type test of solid insulation:		N/A
5.4.9.2	Test procedure for routine test		N/A
5.4.10	Safeguards against transient voltages from external circuits		N/A
5.4.10.1	Parts and circuits separated from external circuits	-05	N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test:		N/A
5.4.10.2.3	Steady-state test		N/A
5.4.10.3	Verification for insulation breakdown for impulse test:		N/A
5.4.11	Separation between external circuits and earth		N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A









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	IEC 62368-1	(6,1)	(6)
Clause	Requirement + Test	Result - Remark	Verdict
6	SPDs bridge separation between external circuit and earth	(6.5)	N/A
6	Rated operating voltage U _{op} (V):		_
	Nominal voltage U _{peak} (V)		_
	Max increase due to variation ΔU_{sp} :	Con	_
)	Max increase due to ageing ΔU _{sa} :		_
5.4.11.3	Test method and compliance:		N/A
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid:		N/A
5.4.12.3	Compatibility of an insulating liquid:		N/A
5.4.12.4	Container for insulating liquid:	C°	N/A
5.5	Components as safeguards	(6,)	N/A
5.5.1	General		N/A
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement	(1)	N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:		N/A
5.5.3	Transformers	No Transformers.	N/A
5.5.4	Optocouplers	No Optocouplers.	N/A
5.5.5	Relays	No Relays.	N/A
5.5.6	Resistors	No such Resistors.	N/A
5.5.7	SPDs	No SPD's.	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable		N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment		N/A
7	RCD rated residual operating current (mA):		_
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors	Class III equipment	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):		_



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
6	Protective earthing conductor serving as a reinforced safeguard	(1)	N/A
6	Protective earthing conductor serving as a double safeguard		N/A
5.6.4	Requirements for protective bonding conductors	-05	N/A
5.6.4.1	Protective bonding conductors		N/A
	Protective bonding conductor size (mm²):		_
5.6.4.2	Protective current rating (A):		N/A
5.6.5	Terminals for protective conductors	00	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm)		N/A
	Terminal size for connecting protective bonding conductors (mm)	C:D	N/A
5.6.5.2	Corrosion	(61)	N/A
5.6.6	Resistance of the protective bonding system		N/A
5.6.6.1	Requirements		N/A
5.6.6.2	Test Method:		N/A
5.6.6.3	Resistance (Ω) or voltage drop:		N/A
5.6.7	Reliable connection of a protective earthing conductor		N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm²):	(6)	N/A
	Class II with functional earthing marking:		N/A
	Appliance inlet cl & cr (mm):	(3)	N/A
5.7	Prospective touch voltage, touch current and prote	ective conductor current	N/A
5.7.2	Measuring devices and networks		N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections		N/A
5.7.4	Unearthed accessible parts:	40-	N/A
5.7.5	Earthed accessible conductive parts		N/A
5.7.6	Requirements when touch current exceeds ES2 limits		N/A
	Protective conductor current (mA):		N/A
_		7.07	



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	IEC 62368-1		(6)
Clause	Requirement + Test	Result - Remark	Verdict
	Instructional Safeguard:	(5)	N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits		N/A
5.7.7.1	Touch current from coaxial cables		N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables		N/A
5.7.8	Summation of touch currents from external circuits		N/A
	a) Equipment connected to earthed external circuits, current (mA):		N/A
(b) Equipment connected to unearthed external circuits, current (mA):		N/A
5.8	Backfeed safeguard in battery backed up supplies		N/A
	Mains terminal ES:	(3)	N/A
")	Air gap (mm):	(6/5)	N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS		Р
6.2.2	Power source circuit classifications	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources		N/A
6.2.3.1	Arcing PIS		N/A
6.2.3.2	Resistive PIS		N/A
6.3	Safeguards against fire under normal operating a conditions	nd abnormal operating	Р
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table B.1.5 and B.3)	Р
	Combustible materials outside fire enclosure:		N/A
6.4	Safeguards against fire under single fault condition	ons	Р
6.4.1	Safeguard method	Method by control of fire spread applied	P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits	(1)	N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions:		N/A



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N/A

N/A

Ρ

N/A

N/A

(*)	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits		N/A
6.4.5.2	Supplementary safeguards		N/A
6.4.6	Control of fire spread in PS3 circuits	Compliance detailed as follows: - PCB: rated min. V-1	P
(- Wire insulation: complying with Clause 6(See Table 4.1.2 used). The internal wire are complied to UL 758 standard, which test method and testing condition equal to IEC/EN 60695-11-21.	
9		- All other components: at least V-2 except for parts mounted on min. V-1 material or small parts of combustible material (with mass less than 4g) or components complying to relevant IEC standard.	Ć
(6		- Fan: complying with Annex G.5.4.	
6.4.7	Congration of combustible materials from a DIC	- V-0I enclosure used.	N/A
0.4.7	Separation of combustible materials from a PIS		IN/A

Ρ 6.4.8.2.2 V-0 fire enclosure used Requirements for a fire enclosure 6.4.8.3 Constructional requirements for a fire enclosure N/A and a fire barrier 6.4.8.3.1 Fire enclosure and fire barrier openings N/A 6.4.8.3.2 Fire barrier dimensions N/A 6.4.8.3.3 Top openings and properties No openings. N/A Openings dimensions (mm)....: N/A 6.4.8.3.4 Bottom openings and properties No openings. N/A N/A Openings dimensions (mm).....: N/A Flammability tests for the bottom of a fire enclosure

No fire barrier

TRF No. IEC62368_1E

6.4.7.2

6.4.7.3

6.4.8.2

6.4.8.2.1

6.4.8

Separation by distance

Separation by a fire barrier

Fire enclosures and fire barriers

Requirements for a fire barrier

Fire enclosure and fire barrier material properties



6.5.1

6.5.2

6.5.3

6.6

General requirements

Requirements for interconnection to building wiring

Internal wiring size (mm²) for socket-outlets.....:

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(See appended table 4.1.2)

N/A

N/A

N/A

N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Instructional Safeguard:		N/A
6.4.8.3.5	Side openings and properties		N/A
	Openings dimensions (mm)	No openings.	N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)		N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:	V-0 fire enclosure used	P
6.4.9	Flammability of insulating liquid	No insulating liquid	N/A
6.5	Internal and external wiring		N/A

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

Safeguards against fire due to the connection to additional equipment

8	MECHANICALLY-CAUSED INJURY		Р
8.2	Mechanical energy source classific	ations	Р
8.3	Safeguards against mechanical ene	rgy sources	Р
8.4	.4 Safeguards against parts with sharp edges and corners		N/A
8.4.1	Safeguards	Accessible sharp edges and corners of the equipment are rounded and are classified as MS1.	N/A
-	Instructional Safeguard		N/A
8.4.2	Sharp edges or corners		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
8.5	Safeguards against moving parts	75	N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts		N/A
	MS2 or MS3 part required to be accessible for the function of the equipment	-05	N/A
	Moving MS3 parts only accessible to skilled person		N/A
8.5.2	Instructional safeguard:		N/A
8.5.4	Special categories of equipment containing moving parts		N/A
8.5.4.1	General	(41)	N/A
8.5.4.2	Equipment containing work cells with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work cell		N/A
8.5.4.2.2	Access protection override	C'S	N/A
8.5.4.2.2.1	Override system	(6,2)	N/A
8.5.4.2.2.2	Visual indicator		N/A
8.5.4.2.3	Emergency stop system		N/A
6	Maximum stopping distance from the point of activation (m)	(c th)	N/A
	Space between end point and nearest fixed mechanical part (mm):		N/A
8.5.4.2.4	Endurance requirements		N/A
)	Mechanical system subjected to 100 000 cycles of operation		N/A
	- Mechanical function check and visual inspection		N/A
	- Cable assembly:	(3)	N/A
8.5.4.3	Equipment having electromechanical device for destruction of media		N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:		N/A
8.5.4.3.3	Disconnection from the supply	(6,1)	N/A
8.5.4.3.4	Cut type and test force (N):		N/A
8.5.4.3.5	Compliance		N/A
8.5.5	High pressure lamps		N/A
6	Explosion test:		N/A
8.5.5.3	Glass particles dimensions (mm):		N/A
8.6	Stability of equipment		N/A



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)	IEC 62368-1	(6)	(6)
Clause	Requirement + Test	Result - Remark	Verdict
8.6.1	General	MS1 equipment	N/A
(6	Instructional safeguard	(2)	N/A
8.6.2	Static stability		N/A
8.6.2.2	Static stability test	:	N/A
8.6.2.3	Downward force test		N/A
8.6.3	Relocation stability	0	N/A
	Wheels diameter (mm)	:	_
	Tilt test		N/A
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test		N/A
8.7	Equipment mounted to wall, ceiling or other str	ucture	N/A
8.7.1	Mount means type		N/A
8.7.2	Test methods		N/A
	Test 1, additional downwards force (N)	:	N/A
	Test 2, number of attachment points and test force (N)	70	N/A
6	Test 3 Nominal diameter (mm) and applied torque (Nm)		N/A
8.8	Handles strength		N/A
8.8.1	General	No handles	N/A
8.8.2	Handle strength test	6)	N/A
	Number of handles	:	
	Force applied (N)		_
8.9	Wheels or casters attachment requirements	(61)	N/A
8.9.2	Pull test		N/A
8.10	Carts, stands and similar carriers		N/A
8.10.1	General	No carts or stands or other carriers	N/A
8.10.2	Marking and instructions	:	N/A
8.10.3	Cart, stand or carrier loading test	15 8	N/A
	Loading force applied (N)		N/A
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability		N/A
	Force applied (N)	:	



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·)	IEC 62368-1	(6,1,2)	(3)
Clause	Requirement + Test	Result - Remark	Verdict
8.10.6	Thermoplastic temperature stability	· · ·	N/A
8.11	Mounting means for slide-rail mounted equipment (SRME)	N/A
8.11.1	General		N/A
8.11.2	Requirements for slide rails		N/A
9	Instructional Safeguard:		N/A
8.11.3	Mechanical strength test	6	N/A
8.11.3.1	Downward force test, force (N) applied:		N/A
8.11.3.2	Lateral push force test		N/A
8.11.3.3	Integrity of slide rail end stops	(Sign)	N/A
8.11.4	Compliance		N/A
8.12	Telescoping or rod antennas		N/A
A	Button/ball diameter (mm)		

THERMAL BURN INJURY		Р
Thermal energy source classifications		Р
Touch temperature limits		Р
Touch temperatures of accessible parts:	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
Test method and compliance		Р
Safeguards against thermal energy sources		N/A
Requirements for safeguards		Р
Equipment safeguard	Enclosure provided to limit the transfer of thermal energy of internal parts under normal operating conditions and abnormal operating conditions	Р
Instructional safeguard:	Instructional safeguard is not required	N/A
Requirements for wireless power transmitters		N/A
General		N/A
Specification of the foreign objects		N/A
Test method and compliance		N/A
	Thermal energy source classifications Touch temperature limits Touch temperatures of accessible parts: Test method and compliance Safeguards against thermal energy sources Requirements for safeguards Equipment safeguard Instructional safeguard: Requirements for wireless power transmitters General Specification of the foreign objects	Thermal energy source classifications Touch temperature limits Touch temperatures of accessible parts

10	RADIATION	Р
10.2	Radiation energy source classification	Р



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(*)	IEC 62368-1	$(c_{i,j})$	(6)
Clause	Requirement + Test	Result - Remark	Verdict
10.2.1	General classification		Р
(6	Lasers:	No laser radiation	_
	Lamps and lamp systems	LED indicator is classified RS1.	_
	Image projectors		_
9	X-Ray:		_
	Personal music player		_
10.3	Safeguards against laser radiation		N/A
(E	The standard(s) equipment containing laser(s) comply		N/A
10.4	Safeguards against optical radiation from lamps LED types)	and lamp systems (including	Р
10.4.1	General requirements		Р
	Instructional safeguard provided for accessible radiation level needs to exceed		N/A
	Risk group marking and location:		N/A
6	Information for safe operation and installation		N/A
10.4.2	Requirements for enclosures		N/A
	UV radiation exposure		N/A
10.4.3	Instructional safeguard:	(3)	N/A
10.5	Safeguards against X-radiation	(6,2,5)	N/A
10.5.1	Requirements		N/A
	Instructional safeguard for skilled persons:		_
10.5.3	Maximum radiation (pA/kg)		_
10.6	Safeguards against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification	('5)	N/A
P)	Acoustic output L _{Aeq,T} , dB(A)	(67)	N/A
	Unweighted RMS output voltage (mV):		N/A
	Digital output signal (dBFS)		N/A
10.6.3	Requirements for dose-based systems		N/A
10.6.3.1	General requirements		N/A
10.6.3.2	Dose-based warning and automatic decrease		N/A
10.6.3.3	Exposure-based warning and requirements	· · ·	N/A



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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	30 s integrated exposure level (MEL30)		N/A
(6	Warning for MEL ≥ 100 dB(A)		N/A
10.6.4	Measurement methods		N/A
10.6.5	Protection of persons		N/A
	Instructional safeguards:		N/A
10.6.6	Requirements for listening devices (headphones, earphones, etc.)	(0,)	N/A
10.6.6.1	Corded listening devices with analogue input		N/A
6	Listening device input voltage (mV)	(40)	N/A
10.6.6.2	Corded listening devices with digital input		N/A
	Max. acoustic output L _{Aeq,T} , dB(A):		N/A
10.6.6.3	Cordless listening devices	(*5)	N/A
*)	Max. acoustic output L _{Aeq,T} , dB(A):	(6(1))	N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		
B.1	General		Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions		Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	P
	Audio Amplifiers and equipment with audio amplifiers:	(See Annex E)	Р
B.2.3	Supply voltage and tolerances		N/A
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		N/A
B.3.1	General		N/A
B.3.2	Covering of ventilation openings	No openings on enclosure.	N/A
	Instructional safeguard::		N/A
B.3.3	DC mains polarity test	Not connected to D.C. mains.	N/A
B.3.4	Setting of voltage selector	No voltage selector.	N/A
B.3.5	Maximum load at output terminals	No output terminal.	N/A
B.3.6	Reverse battery polarity		N/A
B.3.7	Audio amplifier abnormal operating conditions		N/A



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·)	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
B.3.8	Safeguards functional during and after abnormal operating conditions:	(See appended table B.3, B.4)	N/A
B.4	Simulated single fault conditions		Р
B.4.1	General		Р
B.4.2	Temperature controlling device	No temperature controlling device.	N/A
B.4.3	Blocked motor test	No motor	N/A
B.4.4	Functional insulation		N/A
B.4.4.1	Short circuit of clearances for functional insulation	65	N/A
B.4.4.2	Short circuit of creepage distances for functional insulation		N/A
B.4.4.3	Short circuit of functional insulation on coated printed boards	Not such coated printed board.	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.3, B.4)	P
B.4.6	Short circuit or disconnection of passive components		N/A
B.4.7	Continuous operation of components	(1)	N/A
B.4.8	Compliance during and after single fault conditions		N/A
B.4.9	Battery charging and discharging under single fault conditions	(See Annex M)	N/A
С	UV RADIATION	127.7	N/A
C.1	Protection of materials in equipment from UV rac	diation	N/A
C.1.2	Requirements	2 (2)	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus:		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test	(6)	N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators	(25)	N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A



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Clause	Requirement + Test	Result - Remark	Verdict

E	TEST CONDITIONS FOR EQUIPMENT CONTAI	NING AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio signals		N/A
	Maximum non-clipped output power (W)		_
	Rated load impedance (Ω)	:	_
	Open-circuit output voltage (V)		_
	Instructional safeguard		_
E.2	Audio amplifier normal operating conditions	I	N/A
	Audio signal source type	/a /a	_
(Audio output power (W)		_
	Audio output voltage (V)	.:	
	Rated load impedance (Ω)	.:	
	Requirements for temperature measurement	(See appended table B.1.5)	N/A
E.3	Audio amplifier abnormal operating conditions	(See appended table B.3, B.4)	N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		Р
F.1	General	(75)	Р
	Language	: English	_
F.2	Letter symbols and graphical symbols	<u>'</u>	Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units complied with IEC 60027-1.	P
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific		Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	Located on the outside of the enclosure	Р
F.3.2	Equipment identification markings		Р
F.3.2.1	Manufacturer identification	.: See marking plate	Р
F.3.2.2	Model identification	.: See marking plate	Р
F.3.3	Equipment rating markings	See marking plate	Р
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains		Р
F.3.3.3	Nature of the supply voltage	<u></u>	Р
F.3.3.4	Rated voltage	: See marking plate	Р





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Clause	Requirement + Test	Result - Remark	Verdict
F.3.3.5	Rated frequency:	2 (2	N/A
F.3.3.6	Rated current or rated power:	See marking plate	Р
F.3.3.7	Equipment with multiple supply connections	No such device	N/A
F.3.4	Voltage setting device	No such device	N/A
F.3.5	Terminals and operating devices	No such device	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	No fuse used.	N/A
	Instructional safeguards for neutral fuse:		N/A
F.3.5.4	Replacement battery identification marking:		N/A
F.3.5.5	Neutral conductor terminal	Ci)	N/A
F.3.5.6	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification		N/A
F.3.6.1	Class I equipment	Class III equipment.	N/A
F.3.6.1.1	Protective earthing conductor terminal		N/A
F.3.6.1.2	Protective bonding conductor terminals:		N/A
F.3.6.2	Equipment class marking:	405	N/A
F.3.6.3	Functional earthing terminal marking:		N/A
F.3.7	Equipment IP rating marking:	IPX0	N/A
F.3.8	External power supply output marking:		N/A
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р
F.3.10	Test for permanence of markings	After test there was no damage on the label. The marking on the label did not fade. There was no curling and lifting of the label edge.	
F.4	Instructions		Р
	a) Information prior to installation and initial use		Р
(6	b) Equipment for use in locations where children not likely to be present	(4)	N/A

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Instructions for installation and interconnection







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(*)	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
6	d) Equipment intended for use only in restricted access area		N/A
10	e) Equipment intended to be fastened in place		N/A
	f) Instructions for audio equipment terminals		N/A
	g) Protective earthing used as a safeguard		N/A
9	h) Protective conductor current exceeding ES2 limits		N/A
	i) Graphic symbols used on equipment		N/A
(6	j) Permanently connected equipment not provided with all-pole mains switch		N/A
	k) Replaceable components or modules providing safeguard function		N/A
	Equipment containing insulating liquid	(:5)	N/A
(2)	m) Installation instructions for outdoor equipment	(6,1)	N/A
F.5	Instructional safeguards		N/A
G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General	No switch used	N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.1.3	Test method and compliance	(2)	N/A
G.2	Relays	(612)	N/A
G.2.1	Requirements		N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance		N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs		N/A
	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Test method and compliance		N/A
G.3.2	Thermal links		N/A







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Clause	Requirement + Test	Result - Remark	Verdict
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics		N/A
10	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors	(2)	N/A
G.3.4	Overcurrent protection devices		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided	(1)	N/A
G.3.5.2	Single faults conditions	(See appended table B.4)	N/A
G.4	Connectors	1	N/A
G.4.1	Spacings	Ci)	N/A
G.4.2	Mains connector configuration		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A
G.5	Wound components	(II)	N/A
G.5.1	Wire insulation in wound components		N/A
G.5.1.2	Protection against mechanical stress		N/A
G.5.2	Endurance test	(15)	N/A
G.5.2.1	General test requirements	(3)	N/A
G.5.2.2	Heat run test		N/A
	Test time (days per cycle)		_
	Test temperature (°C):	(E)	_
G.5.2.3	Wound components supplied from the mains		N/A
G.5.2.4	No insulation breakdown		N/A
G.5.3	Transformers		N/A
G.5.3.1	Compliance method:	(25)	N/A
	Position:		N/A
	Method of protection:		N/A
G.5.3.2	Insulation	60	N/A
(6)	Protection from displacement of windings:		_
G.5.3.3	Transformer overload tests		N/A
G.5.3.3.1	Test conditions		N/A



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·)	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.5.3.3.2	Winding temperatures	· · ·	N/A
G.5.3.3.3	Winding temperatures - alternative test method		N/A
G.5.3.4	Transformers using FIW		N/A
G.5.3.4.1	General		N/A
1	FIW wire nominal diameter:	(in)	_
G.5.3.4.2	Transformers with basic insulation only	6.	N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:		N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core		N/A
G.5.3.4.5	Thermal cycling test and compliance		N/A
G.5.3.4.6	Partial discharge test	-0-	N/A
G.5.3.4.7	Routine test		N/A
G.5.4	Motors		N/A
G.5.4.1	General requirements		N/A
G.5.4.2	Motor overload test conditions		N/A
G.5.4.3	Running overload test		N/A
G.5.4.4.2	Locked-rotor overload test		N/A
	Test duration (days):		_
G.5.4.5	Running overload test for DC motors		N/A
G.5.4.5.2	Tested in the unit		N/A
G.5.4.5.3	Alternative method		N/A
G.5.4.6	Locked-rotor overload test for DC motors		N/A
G.5.4.6.2	Tested in the unit		N/A
	Maximum Temperature		N/A
G.5.4.6.3	Alternative method		N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors	(0)	N/A
G.5.4.9	Series motors		N/A
	Operating voltage:		_
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation		N/A



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9		IEC 62368-1		(6)
Clause	Requirement + Test		Result - Remark	Verdict
G.7	Mains supply cords	(3	(%)	N/A
G.7.1	General requirements	(6,0)	(67)	N/A
	Type	:		_
G.7.2	Cross sectional area (mm² or AV	VG):		N/A
G.7.3	Cord anchorages and strain relie detachable power supply cords	f for non-	(H)	N/A
G.7.3.2	Cord strain relief			N/A
G.7.3.2.1	Requirements			N/A
6	Strain relief test force (N)	:	(41)	N/A
G.7.3.2.2	Strain relief mechanism failure	0		N/A
G.7.3.2.3	Cord sheath or jacket position, d	istance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage	material	C'S	N/A
G.7.4	Cord Entry	(0,1)	(0,1)	N/A
G.7.5	Non-detachable cord bend prote	ction		N/A
G.7.5.1	Requirements			N/A
G.7.5.2	Test method and compliance	CS.		N/A
(Overall diameter or minor overall (mm)			_
	Radius of curvature after test (m	m)::		_
G.7.6	Supply wiring space			N/A
G.7.6.1	General requirements			N/A
G.7.6.2	Stranded wire			N/A
G.7.6.2.1	Requirements			N/A
G.7.6.2.2	Test with 8 mm strand	(0,4)	(6,1)	N/A
G.8	Varistors			N/A
G.8.1	General requirements			N/A
G.8.2	Safeguards against fire			N/A
G.8.2.1	General	0		N/A
G.8.2.2	Varistor overload test			N/A
G.8.2.3	Temporary overvoltage test	713	(*)	N/A
G.9	Integrated circuit (IC) current I	imiters		N/A
G.9.1	Requirements			N/A

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IC limiter output current (max. 5A)....:



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	Manufacturers' defined drift:	6.7	_
G.9.2	Test Program	(6,0)	N/A
G.9.3	Compliance		N/A
G.10	Resistors		N/A
G.10.1	General		N/A
G.10.2	Conditioning	(6)	N/A
G.10.3	Resistor test		N/A
G.10.4	Voltage surge test		N/A
G.10.5	Impulse test	(2)	N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers		N/A
(c)	Optocouplers comply with IEC 60747-5-5 with specifics		N/A
	Type test voltage V _{ini,a} :		_
	Routine test voltage, V _{ini, b} :	(1)	
G.13	Printed boards	(6,2)	Р
G.13.1	General requirements	See below.	Р
G.13.2	Uncoated printed boards	Certified uncoated printed board used.	Р
G.13.3	Coated printed boards	(5,0)	N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
G.13.5	Insulation between conductors on different surfaces	C'S	N/A
-3)	Distance through insulation:	(6,2)	N/A
	Number of insulation layers (pcs):		_
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2	Test method and compliance		N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements:	(See Clause G.13)	N/A



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)	IEC 62368-1	(C,)	(6)
Clause	Requirement + Test	Result - Remark	Verdict
G.15	Pressurized liquid filled components	2.5	N/A
G.15.1	Requirements		N/A
G.15.2	Test methods and compliance		N/A
G.15.2.1	Hydrostatic pressure test		N/A
G.15.2.2	Creep resistance test		N/A
G.15.2.3	Tubing and fittings compatibility test	0.	N/A
G.15.2.4	Vibration test		N/A
G.15.2.5	Thermal cycling test		N/A
G.15.2.6	Force test		N/A
G.15.3	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)		N/A
G.16.1	Condition for fault tested is not required		N/A
)	ICX with associated circuitry tested in equipment		N/A
	ICX tested separately		N/A
G.16.2	Tests		N/A
6	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:		
	Mains voltage that impulses to be superimposed on:		_
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test	(4)	_
G.16.3	Capacitor discharge test:		N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General		N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal	(3)	N/A
H.3.1.1	Frequency (Hz):	(6,2)	_
H.3.1.2	Voltage (V)		_
H.3.1.3	Cadence; time (s) and voltage (V):		_
H.3.1.4	Single fault current (mA)::		_
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A



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(*)	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
H.3.2.2	Tripping device	2,2	N/A
H.3.2.3	Monitoring voltage (V):	(5,4)	N/A
J	INSULATED WINDING WIRES FOR USE WITHOU	T INTERLEAVED INSULATION	N/A
J.1	General		N/A
	Winding wire insulation:		_
7	Solid round winding wire, diameter (mm):	6	N/A
	Solid square and rectangular (flatwise bending) winding wire, cross-sectional area (mm²):		N/A
J.2/J.3	Tests and Manufacturing	(See separate test report)	_
K	SAFETY INTERLOCKS	180,400	N/A
K.1	General requirements		N/A
	Instructional safeguard:		N/A
K.2	Components of safety interlock safeguard mecha	anism	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe	(1)	N/A
K.5.1	Under single fault condition		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Test method and compliance:		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements		N/A
	In circuit connected to mains, separation distance for contact gaps (mm):		N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):		N/A
	Electric strength test before and after the test of K.7.2	(See appended table 5.4.9)	N/A
K.7.2	Overload test, Current (A):		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements		N/A



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(*)	IEC 62368-1	(65)
Clause	Requirement + Test Result - Remark	Verdict
L.2	Permanently connected equipment	N/A
L.3	Parts that remain energized	N/A
L.4	Single-phase equipment	N/A
L.5	Three-phase equipment	N/A
L.6	Switches as disconnect devices	N/A
L.7	Plugs as disconnect devices	N/A
L.8	Multiple power sources	N/A
	Instructional safeguard:	N/A
М	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRC	UITS N/A
M.1	General requirements	N/A
M.2	Safety of batteries and their cells	N/A
M.2.1	Batteries and their cells comply with relevant IEC standards:	N/A
М.3	Protection circuits for batteries provided within the equipment	N/A
M.3.1	Requirements	N/A
M.3.2	Test method	N/A
	Overcharging of a rechargeable battery	N/A
	Excessive discharging	N/A
	Unintentional charging of a non-rechargeable battery	N/A
	Reverse charging of a rechargeable battery	N/A
M.3.3	Compliance	N/A
M.4	Additional safeguards for equipment containing a portable secondary libattery	ithium N/A
M.4.1	General	N/A
M.4.2	Charging safeguards	N/A
M.4.2.1	Requirements	N/A
M.4.2.2	Compliance:	N/A
M.4.3	Fire enclosure:	N/A
M.4.4	Drop test of equipment containing a secondary lithium battery	N/A
M.4.4.2	Preparation and procedure for the drop test	N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	N/A



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Clause Requirement + Test Result - Remark M.4.4.4 Check of the charge/discharge function M.4.4.5 Charge / discharge cycle test M.4.4.6 Compliance M.5 Risk of burn due to short-circuit during carrying M.5.1 Requirement M.5.2 Test method and compliance M.6 Safeguards against short-circuits M.6.1 External and internal faults M.6.2 Compliance M.7 Risk of explosion from lead acid and NICd batteries M.7.1 Ventilation preventing explosive gas concentration Calculated hydrogen generation rate	
M.4.4.5 Charge / discharge cycle test M.4.4.6 Compliance M.5 Risk of burn due to short-circuit during carrying M.5.1 Requirement M.5.2 Test method and compliance M.6 Safeguards against short-circuits M.6.1 External and internal faults M.6.2 Compliance M.7 Risk of explosion from lead acid and NiCd batteries M.7.1 Ventilation preventing explosive gas concentration Calculated hydrogen generation rate	Verdict
M.4.4.6 Compliance M.5 Risk of burn due to short-circuit during carrying M.5.1 Requirement M.5.2 Test method and compliance M.6 Safeguards against short-circuits M.6.1 External and internal faults M.6.2 Compliance M.7 Risk of explosion from lead acid and NiCd batteries M.7.1 Ventilation preventing explosive gas concentration Calculated hydrogen generation rate	N/A
M.5.1 Risk of burn due to short-circuit during carrying M.5.1 Requirement M.5.2 Test method and compliance M.6. Safeguards against short-circuits M.6.1 External and internal faults M.6.2 Compliance M.7 Risk of explosion from lead acid and NiCd batteries M.7.1 Ventilation preventing explosive gas concentration Calculated hydrogen generation rate	N/A
M.5.1 Requirement M.5.2 Test method and compliance M.6 Safeguards against short-circuits M.6.1 External and internal faults M.6.2 Compliance M.7 Risk of explosion from lead acid and NiCd batteries M.7.1 Ventilation preventing explosive gas concentration Calculated hydrogen generation rate	N/A
M.5.2 Test method and compliance M.6. Safeguards against short-circuits M.6.1 External and internal faults M.6.2 Compliance M.7 Risk of explosion from lead acid and NiCd batteries M.7.1 Ventilation preventing explosive gas concentration Calculated hydrogen generation rate	N/A
M.6.1 External and internal faults M.6.2 Compliance M.7 Risk of explosion from lead acid and NiCd batteries M.7.1 Ventilation preventing explosive gas concentration Calculated hydrogen generation rate	N/A
M.6.1 External and internal faults M.6.2 Compliance M.7 Risk of explosion from lead acid and NiCd batteries M.7.1 Ventilation preventing explosive gas concentration Calculated hydrogen generation rate	N/A
M.6.2 Compliance M.7 Risk of explosion from lead acid and NiCd batteries M.7.1 Ventilation preventing explosive gas concentration Calculated hydrogen generation rate	N/A
M.7.1 Ventilation preventing explosive gas concentration Calculated hydrogen generation rate	N/A
M.7.1 Ventilation preventing explosive gas concentration Calculated hydrogen generation rate	N/A
Calculated hydrogen generation rate: M.7.2 Test method and compliance Minimum air flow rate, Q (m³/h)	N/A
M.7.2 Test method and compliance Minimum air flow rate, Q (m³/h)	N/A
Minimum air flow rate, Q (m³/h)	N/A
M.7.3.1 General M.7.3.2 Ventilation test – alternative 1 Hydrogen gas concentration (%)	N/A
M.7.3.1 General M.7.3.2 Ventilation test – alternative 1 Hydrogen gas concentration (%)	N/A
M.7.3.1 General M.7.3.2 Ventilation test – alternative 1 Hydrogen gas concentration (%)	N/A
Hydrogen gas concentration (%)	N/A
M.7.3.3 Ventilation test – alternative 2 Obtained hydrogen generation rate	N/A
Obtained hydrogen generation rate	N/A
M.7.3.4 Ventilation test – alternative 3 Hydrogen gas concentration (%)	N/A
Hydrogen gas concentration (%)	N/A
M.7.4 Marking	N/A
M.8 Protection against internal ignition from external spark sources of batteries with aqueous electrolyte M.8.1 General Not lead acid batteries. M.8.2 Test method M.8.2.1 General	N/A
with aqueous electrolyte M.8.1 General Not lead acid batteries. M.8.2 Test method M.8.2.1 General	N/A
M.8.2 Test method M.8.2.1 General	N/A
M.8.2.1 General	N/A
	N/A
M.8.2.2 Estimation of hypothetical volume V_Z (m ³ /s):	N/A
	_
M.8.2.3 Correction factors:	_
M.8.2.4 Calculation of distance <i>d</i> (mm):	_
M.9 Preventing electrolyte spillage	N/A
M.9.1 Protection from electrolyte spillage	N/A



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(*)	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse		N/A
	Instructional safeguard:		N/A
N	ELECTROCHEMICAL POTENTIALS		N/A
	Material(s) used		_
0	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	N/A
	Value of X (mm)		_
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECT	rs	Р
P.1	General		Р
P.2	Safeguards against entry or consequences of e	ntry of a foreign object	Р
P.2.1	General		Р
P.2.2	Safeguards against entry of a foreign object		Р
	Location and Dimensions (mm)	No openings	_
P.2.3	Safeguards against the consequences of entry of a foreign object		N/A
P.2.3.1	Safeguard requirements		N/A
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment		N/A
	Transportable equipment with metalized plastic parts		N/A
P.2.3.2	Consequence of entry test		N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Compliance		N/A
P.4	Metallized coatings and adhesives securing par	ts	N/A
P.4.1	General		N/A
P.4.2	Tests		N/A
	Conditioning, T _C (°C)		_
	Duration (weeks)		_
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources	(*5	N/A



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~)	IEC 62368-1	
Clause	Requirement + Test Result - Remark	Verdict
Q.1.1	Requirements	N/A
	a) Inherently limited output	N/A
	b) Impedance limited output	N/A
	c) Regulating network limited output	N/A
	d) Overcurrent protective device limited output	N/A
	e) IC current limiter complying with G.9	N/A
Q.1.2	Test method and compliance (See appended table Q.1)	N/A
	Current rating of overcurrent protective device (A)	N/A
Q.2	Test for external circuits – paired conductor cable	N/A
	Maximum output current (A):	N/A
	Current limiting method:	_
₹	LIMITED SHORT CIRCUIT TEST	N/A
R.1	General	N/A
R.2	Test setup	N/A
	Overcurrent protective device for test:	_
R.3	Test method	N/A
	Cord/cable used for test:	_
R.4	Compliance	N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	N/A
	Samples, material:	_
	Wall thickness (mm):	_
	Conditioning (°C):	_
	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
	- Material not consumed completely	N/A
	- Material extinguishes within 30s	N/A
	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A
S.2	- No burning of layer or wrapping tissue	
\perp		





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Clause	Requirement + Test	Result - Remark	Verdict
	Wall thickness (mm):		_
	Conditioning (°C):		_
S.3	Flammability test for the bottom of a fire enclosu	ıre	N/A
S.3.1	Mounting of samples		N/A
S.3.2	Test method and compliance		N/A
	Mounting of samples:		_
	Wall thickness (mm):		_
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C):		_
Γ	MECHANICAL STRENGTH TESTS		Р
Г.1	General		Р
Γ.2	Steady force test, 10 N:		N/A
Г.3	Steady force test, 30 N:		N/A
Γ.4	Steady force test, 100 N:		N/A
Г.5	Steady force test, 250 N:	(See appended table T.2, T.3, T.4, T.5)	Р
Γ.6	Enclosure impact test	(See appended table T.6, T.9)	Р
	Fall test		Р
	Swing test		N/A
Γ.7	Drop test:		N/A
Г.8	Stress relief test	(See appended table T.8)	Р
Г.9	Glass Impact Test:		N/A
Γ.10	Glass fragmentation test		N/A
	Number of particles counted:		N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm):		N/A
J	MECHANICAL STRENGTH OF CATHODE RAY TU AGAINST THE EFFECTS OF IMPLOSION	BES (CRT) AND PROTECTION	N/A
J.1	General		N/A



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Clause	Requirement + Test	Result - Remark	Verdict		

	Instructional safeguard :		N/A		
U.2	Test method and compliance for non-intrinsically	protected CRTs	N/A		
U.3	Protective screen DETERMINATION OF ACCESSIBLE PARTS				
V					
V.1	Accessible parts of equipment		Р		
V.1.1	General		Р		
V.1.2	Surfaces and openings tested with jointed test probes		Р		
V.1.3	Openings tested with straight unjointed test probes		N/A		
V.1.4	Plugs, jacks, connectors tested with blunt probe		N/A		
V.1.5	Slot openings tested with wedge probe		N/A		
V.1.6	Terminals tested with rigid test wire		N/A		
V.2	Accessible part criterion		Р		
X	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)				
	Clearance	(See appended table X)	N/A		
Y	CONSTRUCTION REQUIREMENTS FOR OUTDOO	R ENCLOSURES	N/A		
Y.1	General		N/A		
	Resistance to UV radiation		N/A N/A		
Y.2		(C,)	N/A		
Y.2 Y.3	Resistance to UV radiation		N/A		
Y.2 Y.3 Y.3	Resistance to UV radiation Resistance to corrosion	(C)	N/A N/A		
Y.2 Y.3 Y.3 Y.3.1	Resistance to UV radiation Resistance to corrosion Resistance to corrosion Metallic parts of outdoor enclosures are resistant to	(C)	N/A N/A N/A		
Y.2 Y.3 Y.3 Y.3.1	Resistance to UV radiation Resistance to corrosion Resistance to corrosion Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:	(C)	N/A N/A N/A N/A		
Y.2 Y.3 Y.3.1 Y.3.1 Y.3.2 Y.3.3	Resistance to UV radiation Resistance to corrosion Resistance to corrosion Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by: Test apparatus		N/A N/A N/A		
Y.2 Y.3 Y.3.1 Y.3.1 Y.3.2 Y.3.3 Y.3.4	Resistance to UV radiation Resistance to corrosion Resistance to corrosion Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by: Test apparatus Water – saturated sulphur dioxide atmosphere		N/A N/A N/A N/A N/A		
Y.2 Y.3 Y.3.1 Y.3.2 Y.3.2 Y.3.3 Y.3.4 Y.3.5	Resistance to UV radiation Resistance to corrosion Resistance to corrosion Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by: Test apparatus Water – saturated sulphur dioxide atmosphere Test procedure		N/A N/A N/A N/A N/A N/A N/A		
Y.2 Y.3 Y.3.1 Y.3.2 Y.3.2 Y.3.3 Y.3.4 Y.3.5 Y.4	Resistance to UV radiation Resistance to corrosion Resistance to corrosion Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by: Test apparatus Water – saturated sulphur dioxide atmosphere Test procedure		N/A N/A N/A N/A N/A N/A N/A N/A		
Y.2 Y.3 Y.3.1 Y.3.2 Y.3.3 Y.3.4 Y.3.5 Y.4	Resistance to UV radiation Resistance to corrosion Resistance to corrosion Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by: Test apparatus Water – saturated sulphur dioxide atmosphere Test procedure		N/A N/A N/A N/A N/A N/A N/A N/A N/A		
Y.2 Y.3 Y.3.1 Y.3.2 Y.3.3 Y.3.4 Y.3.5 Y.4 Y.4.1 Y.4.2	Resistance to UV radiation Resistance to corrosion Resistance to corrosion Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by: Test apparatus Water – saturated sulphur dioxide atmosphere Test procedure		N/A N/A N/A N/A N/A N/A N/A N/A N/A		
Y.1 Y.2 Y.3 Y.3.1 Y.3.2 Y.3.3 Y.3.4 Y.3.5 Y.4 Y.4.1 Y.4.2 Y.4.3	Resistance to UV radiation Resistance to corrosion Resistance to corrosion Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by: Test apparatus Water – saturated sulphur dioxide atmosphere Test procedure		N/A		



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Clause	Requirement + Test	Result - Remark	Verdict
Y.4.5	Oil resistance		N/A
Y.4.6	Securing means		N/A
Y.5	Protection of equipment within an outdoor end	losure	N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		N/A
	Relevant tests of IEC 60529 or Y.5.3	:	N/A
Y.5.3	Water spray test		N/A
Y.5.4	Protection from plants and vermin		N/A
Y.5.5	Protection from excessive dust	(C _{4,0}) (C _{4,0})	N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment		N/A
Y.6	Mechanical strength of enclosures	6.	N/A
Y.6.1	General		N/A
Y.6.2	Impact test	.:	N/A





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Clause	Requirement + Test	Result - Remark	Verdict

5.2 T.	TABLE: Classification of electrical energy sources						Р
Supply	Location (e.g.	Test conditions		Р	arameters		ES
Voltage	circuit designation)			I (mA)	Type ¹⁾	Additional Info ²⁾	- Class
9	(67)	Normal	12.0Vdc		SS		(6)
12.0Vdc	12.0Vdc Input circuit	Abnormal					ES1
12.5 V d o	pat dirodit	Single fault - SC/OC				(40)	

Supplementary information:

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

5.4.1.8	I.1.8 TABLE: Working voltage measurement					
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments	
6	<i>i</i>)	(i) -	-(3)			
10	5 / <u></u>	(67)	-(0.)		(0.)	

5.4.1.10.2	.10.2 TABLE: Vicat softening temperature of thermoplastics					
Method			:	ISO 306 / B50		_
Object/ Par	t No./Material	Manufacturer/trademark		Thickness (mm)	T softenii	ng (°C)
(6)	<u></u>	(6,)	(6)	-	(67)-	
Supplement	tary information:					
						13

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics						
Allowed impression diameter (mm) ≤ 2 mm						
Object/Part No./Material		Manufacturer/trademark	Thickness (mm)	Test temperature (°C)	Impression diameter (mm)	
						-
	- (3)	- 00		· -		- /05



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			5.707					
	Clause	Requirement + Test		Result - Remark	Verdict			

Supplementary information:

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance							N/A	
Clearance (cl) and creepage distance (cr) at/of/between:	U _p (V)	U _{rms} (V)	Freq 1) (Hz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)
(**)		75		-/2				

Supplementary information:

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

Distance through (DTI) at/of	n insulation	Peak voltage (V)	Insulation	Required DTI	Measured DT				
` '				(mm)	(mm)				
- (3)		- (:)		- 0	- A				
Supplementary information:									

5.4.4.9	TABLE: Solid in	nsulation at	frequencies	>30 kHz	(2)	9)	N/A
Insulation	material	E _P	Frequency (kHz)	K _R	Thickness d (mm)	Insulation	V _{PW} (Vpk)
Suppleme	ntary information:						
16	5)	0	/	6.	/	6.	7

5.4.9	TABLE: Electric strength tests			N/A
Test voltage	e applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
24			-	
Supplemen	 tary information:	-(1)	- 0	0 -



Page 41 of 48 Report No.: EED31Q801056 IEC 62368-1 Result - Remark Clause Requirement + Test Verdict 5.5.2.2 **TABLE: Stored discharge on capacitors** N/A Location Supply voltage (V) Operating and fault Switch Measured ES Class condition 1) position voltage (Vpk) Supplementary information: X-capacitors installed for testing: bleeding resistor rating: [] ICX: [] 1) Normal operating condition (e.g., normal operation, or open fuse), SC= short circuit, OC= open circuit

5.6.6	TABLE: Resistance of protective conductors and terminations N/A							
Location Test current Duration Voltage drop Resis								
7	- 6	- 6	/	<u></u>	- 6.			
Supplementary information:								
/0		**	·					

1.20	~ 1	1.79.	· 1					
5.7.4	TABLE: Unearthed accessible parts						N/A	
Location		Operating and	Supply	F	Parameters		ES	
	fault condi		Voltage (V)			Freq. (Hz)	class	
		<u> </u>	- 6	_			<u></u>	
Supplementary information:								
Abbreviation: SC= short circuit; OC= open circuit								

5.7.5	TABLE: Earthed accessible conductive part						
Supply volta	ge (V):				_		
Phase(s)	:	[] Single Phase; [] Three	Phase: [] Delta	[] Wye			
Power Distril	oution System:	[] TN []TT []	IT				
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comm	ent		
- (2)							
Supplementa	ary Information:						



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(*)		IEC 62368-1		(67)
Clause	Requirement +	Test	Result - Remark	Verdict

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

Abbreviation: SC= short circuit, OC= open circuit

6.2.2	TABLE: Power source	ABLE: Power source circuit classifications						
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class		
Internal circuits	Normal			-		PS3 (Declared)		

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

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

6.2.3.1 TA	BLE: Determi	nation of Arcing PIS			N/A
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No
_	(*)	/*2			/-:
Supplementary	information:				

6.2.3.2 TABLE: Determination of resistive PIS					
Location	Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No		
All Internal circuits			Yes		
		-0	(Declared)		
Supplementary information:					
Abbreviation: SC= short circu	it; OC= open circuit		6		

8.5.5 TABLE: High pres	sure lamp	(*)			N/A
Lamp manufacturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	bey	cle found ond 1 m es / No
-					



Clause

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Supplementary information	n:		
(0,1)	(0,1)	(0,0)	(6,2)

9.6	TABLE	: Tempera	ture meası	ureme	ents	for wireles	s power t	ransmitter	s	N/A
Supply volta	age (V)			:	13		,	(1)		_
Max. transm	Max. transmit power of transmitter (W):							_		
w/o receiver and direct contact			with receiver and direct contact			ver and at of 2 mm	with receiver and at distance of 5 mm			
Foreign o	bjects	Object (°C)	Ambient (°C)	Obj (°(Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
					-					
Supplement	Supplementary information:									
									(2	

5.4.1.4,	TABLE: Tempe	rature mea	asurem	ents				Р		
9.3, B.1.5, B.2.6										
Supply volta	ige (V)		:	12.0Vdc normal operation				_		
Ambient ten	nperature during	test $T_{ m amb}$ (°0	C):							
Maximum m	Maximum measured temperature <i>T</i> of part/at:				7 (°C)					
PCB near U	2			42.1	87.6			130		
L1 body	L1 body				86.8			130		
PCB near U	PCB near U3				85.0		7:5	130		
PCB near U	4	(67)	,)	38.0	83.5		(67)	130		
PCB near U	5			39.9	85.4			130		
Plastic enclo	osure inside			33.5	79.0		-	Ref.		
Ambient				24.5	Shift to 70.0		1	-(3)		
Accessible p	part:							(4		
Plastic enclo	osure outside			28.6	29.5			77		
Ambient	Ambient			24.5	Shift to 25.0		7:0			
Temperature	e T of winding:	t ₁ (°C)	R ₁ (Ω	t_2 (°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulation class		



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

Supplementary information:

	(3)	")	(2)	9)					(273)		
B.2.5	(6	ΓABLE: Inpu	ut test	/	6		Р				
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Conditi	on/status		
12.0 Vdc		0.03	0.045	0.36	(6)	(6	<u>(a)</u>	Normal operation			
Supple	ementa	ary information	on:								

B.3, B.4 TAB	BLE: Abnormal	operating	and fault	condition t	ests	(2)	Р	
Ambient tempera	ature T _{amb} (°C)			:	See belo	_		
Power source for	EUT: Manufact	Shenzhe Technolo 10080K /	_					
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observatio	n	
C5	SC	12.0Vdc	10mins			Unit shut down immediately no damage, no hazard.		
Supplementary in	nformation: SC: \$	Short circuit	S.					
(6.)		(0.)		(0)	フ			

M.3	TABLE: Pro	otection circu	its for	batterie	es provid	ed w	ithin	the equ	uipment	N/A
Is it possible	to install the	battery in a rev	verse p	oolarity p	osition?	:		(41)) 	_
			Charging							
Equipment S	pecification		Volta	age (V)					Current (A)	
			Battery specification							
		Non-rechargeable batteries			Rechargeable batteries					
		Discharging			Charging			Discharging	Reverse	
Manufactu	urer/type	current (A)	charging current (A)		Voltage (V) Cur		Curr	ent (A)	current (A)	charging current (A)
Note: The tes	ts of M.3.2 a	re applicable o	nly whe	en above	e appropri	ate d	ata is	not ava	nilable.	
Specified bat	tery tempera	ture (°C)				16.	į.		- (3)	\
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp.		rrent A)	Voltag (V)	e Obse	rvation



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/	(6)	/	IEC 02	000-1		(0)		100	
Clause	Re	quirement + Tes	st		Result - Remark				
-/*		(2)		- /	-		(°)		
-(6)		(37)		-(6)	()-		(C)		
		-							

Supplementary information:

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

M.4.2	TABLE: Charging safeguards for equipment containing a secondary lithium battery							
Maximum	specified charging voltage (V):	(87)	_					
Maximum	specified charging current (A):	-	_					
Highest sp	pecified charging temperature (°C):							
Lowest sp	pecified charging temperature (°C)							

Battery	Operating		Measuremen	Observation	
manufacturer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp.	
		voitage (v)	Current (A)	(°C)	
((-4)	(<u>-(())-</u>	(<u> </u>	
<u></u>		<u> </u>	-		<u></u>
	(**	/	- C	- /	- (3

Supplementary information:

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

Q.1 TABLE: Circuits intended for interconnection with building wiring (LPS)									
Output Circuit	Condition	U _{oc} (V)	Time (s)	I _{sc} (A)		S (VA)			
		O _{oc} (V)		Meas.	Limit	Meas.	Limit		
(*)	(24)	((1)		(<u>~</u> ^)		(6/		

Supplementary Information:

SC=Short circuit, OC=Open circuit

		/ 4.4	
T.2, T.3,	TABLE: Steady force test		Р
T.4, T.5			





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~)		IEC 62368-1		(62)
Clause	Requirement +	Test	Result - Remark	Verdict

Location/Part	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation
Top enclosure	Plastic	See table 4.1.2		250	5	No hazard
Bottom enclosure	Plastic	See table 4.1.2	· (250	5	No hazard
Side enclosure	Plastic	See table 4.1.2		250	5	No hazard
Supplementary info	rmation:	,				

ocation/Part	Material	Thickness (mm)	Height (mm)	Observation
Top enclosure	Plastic	See table 4.1.2	1300	No hazard
Bottom enclosure	Plastic	See table 4.1.2	1300	No hazard
Side enclosure	Plastic	See table 4.1.2	1300	No hazard

T.7	TABLE: Drop	test			N/A
Location/Part		Material	Thickness (mm)	Height (mm)	Observation
	2		(

T.8	TABLE	: Stress relief	test			Р
Location/F	Part	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Enclo	osure	Plastic	See table 4.1.2	89.0	7	No hazard
Suppleme	entary infor	mation:				



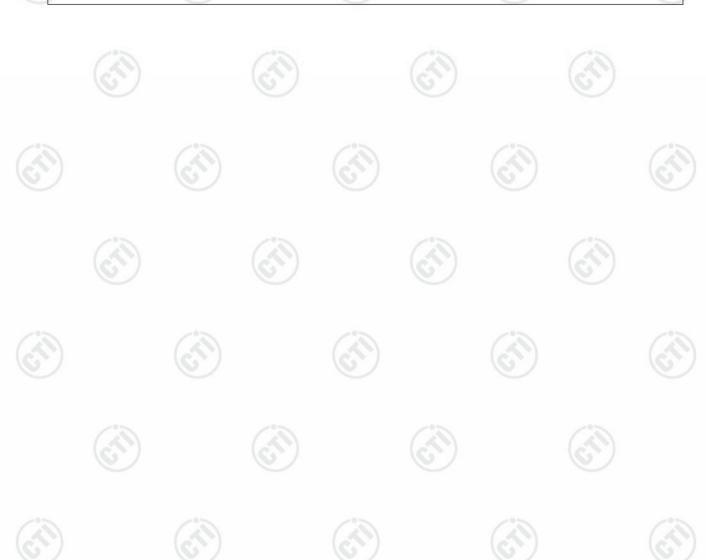


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1	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict

X TABLE: Alterr	native method for determinin	g minimum clearances	s distances N/A
Clearance distanced between:	Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)
Supplementary information:			
	(6,)	(6,	(6)











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Clause Requirement + Test Result - Remark Verdict

4.1.2	TABLE:	List of critical co	mponents	(°A	/-		Р
Object /	part No.	Manufacturer/ trademark	Type / model	Technical data	Standard ²⁾		k(s) of formity ¹⁾
Plastic e	enclosure	SABIC INNOVATIVE PLASTICS US L L C	C2950(GG)	V-0, 75°C Min. thickness 1.5 mm	UL 94, UL 746	UL E	E121562
РСВ		Shenzhen Xinhongxing Multilayer PCB Co., Ltd.	XHX-D1 (ASP 1)	V-0, 130°C	UL 796	UL E	501497
(Alternat	tive)	Interchangeable	Interchangeable	Min. V-1, 130°C	UL 796	UL	

Supplementary information:

²)License available upon request.



TRF No. IEC62368_1E

Hotline:400-6788-333

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



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National Differences

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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	IFICATIONS (EN)	7.5
9	IEC 62368-1:2020+A11:202	that are shaded light grey are clause references in EN 0. All other clause numbers in that column, except for w, refers to IEC 62368-1:2018.	(c)
(Clauses, subclauses, notes, those in IEC 62368-1:2018 a	tables, figures and annexes which are additional to are prefixed "Z".	
	Add the following annexes:		
(6)	Annex ZA (normative) publications	Normative references to international publications with their corresponding European	
	Annex ZB (normative)	Special national conditions	B
	Annex ZC (informative)	A-deviations	
/	Annex ZD (informative)	IEC and CENELEC code designations for flexible cords	
1	Modification to Clause 3.		N/A
3.3.19	Sound exposure Replace 3.3.19 of IEC 6236	68-1 with the following definitions:	N/A





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	National Differences	s (ET)	
Clause	Requirement + Test	Result - Remark	Verdict
3.3.19.1	momentary exposure level, MEL metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2.	n'i	N/A
	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.	CIN	(Fi
3.3.19.3	A-weighted sound pressure (p) squared and integrated over a stated period of time, T		N/A
	Note 1 to entry: The SI unit is Pa ² s. $E = \int_{0}^{T} p(t)^{2} dt$	(cit)	(cr
3.3.19.4	sound exposure level, <i>SEL</i>		N/A
	logarithmic measure of sound exposure relative to a reference value, <i>E0</i> , typically the 1 kHz threshold of hearing in humans. Note 1 to entry: <i>SEL</i> is measured as A-weighted levels in dB.		(K)
($SEL = 10 \lg \left(\frac{E}{E_0}\right)_{dB}$		9
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.	(cfi)	









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(*)	National Differences	(6,7,5)	(0)
Clause	Requirement + Test	Result - Remark	Verdict
3.3.19.5	digital signal level relative to full scale, dBFS levels reported in dBFS are always r.m.s. Full scale level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak		N/A
	value is positive digital full scale, leaving the code corresponding to negative digital full scale unused		(Gr
(Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave, the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.		
2	Modification to Clause 10		N/A
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:		N/A
10.6.1.1	Introduction Safeguard requirements for protection against long-term exposure to excessive sound pressure		N/A
	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	(File)	(K)
	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,		



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•)	National Difference	s	(6)
Clause	Requirement + Test	Result - Remark	Verdict
	PDAs or similar equipment.	-01	
	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 ITU-T P.360.	to	(F)
	NOTE 2 It is the intention of the Committee to all the alternative methods for now, but to only use to dose	he	
	measurement method as given in 10.6.5 in future Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.	o	
	Listening devices sold separately shall comply w the requirements of 10.6.6.	ith	(67)
	These requirements are valid for music or video mode only.		
	The requirements do not apply to: - professional equipment;		
	NOTE 3 Professional equipment is equipment so through special sales channels. All products sold through		CT
	normal electronics stores are considered not to be professional equipment.	pe	
	 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 	(cii)	(61)
	receiver, an AM radio receiver), and • cassette player/recorder;		
	NOTE 4 This exemption has been allowed because this technology is falling out of use and is expected that	it C	
	within a few years it will no longer exist. This exemption will not be extended to other	(:2)	100



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	National	Differences	10
Clause	Requirement + Test	Result - Remark	Verdic
	technologies.	-01	-0-
	(4)	(49)	(1)
	– a player while connected to an exter	rnal amplifier	(C)
	that does not allow the user to walk ar	-	
	while in use.		
		60	-
	For equipment that is clearly designed	l or intended	(65
	primarily for use by children, the limits		(0)
	relevant toy standards may apply.	5, 4,15	
	Tolevant toy standards may apply.		
	The relevant requirements are given in	. (4)	20
	The relevant requirements are given in		(S)
	EN 71-1:2011, 4.20 and the related te and measurement distances apply.	sts methods	
10.6.1.2	Non-ionizing radiation from radio fr	requencies	N/A
	in the range 0 to 300 GHz		(65
			0
	The amount of non-ionizing radiation i	_	
	by European Council Recommendation		
	1999/519/EC of 12 July 1999 on the li exposure of the general public to elect		
	fields (0 Hz to 300 GHz).	tromagnetic	(2)
	For intentional radiators, ICNIRP guide	elines should	
	be taken into account for Limiting Exp		
	Time-Varying Electric, Magnetic, and		_0
	Electromagnetic Fields (up to 300 GH	z). For hand-	
	held and body mounted devices, atter	ntion is drawn	(0)
	to EN 50360 and EN 50566.		
10.6.2	Classification of devices without th	e capacity to estimate sound dose	N/A
10.6.2.1	General		N/A
			6.
	This standard is transitioning from sho		
	based (30 s) requirements to long-terr		
	hour) requirements. These clauses re		
	only for devices that do not comply will dose estimation as stipulated in EN 50		(8)
	dose estimation as supulated in Liv 30	J332-3.	
	For classifying the acoustic output <i>L</i> A	ea T	
	measurements are based on the A-we	· ·	-0-
	equivalent sound pressure level over	-	411
	For music where the average sound p	ressure (long	
	term <i>L</i> Aeq, <i>T</i>) measured over the dura		



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(*)	National Differences	3	(67)		(8)
Clause	Requirement + Test	Result -	Remark		Verdict
(programme simulation noise, measurements may be done over the duration of the complete song. I this case, <i>T</i> becomes the duration of the song.			(in)	
	NOTE Classical music, acoustic music and broadcast typically has an average sound pressur (long term <i>L</i> Aeq, <i>T</i>) which is much lower than the average programme simulation noise. Therefore, the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit.	if			(F)
	For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.				(H
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)	-:-			N/A
	RS1 is a class 1 acoustic energy source that does not exceed the following:	S			
	– 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 LAeq, T acoust output shall be ≤ 85 dB when playing the fixed	3			(F)
	"programme simulation noise" described in EN 50332-1. – for equipment provided with a standardized	3			
	connector (for example, a 3,5 phone jack) that allows connection to a listening device for genera use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.				(F
	- The RS1 limits will be updated for all devices as per 10.6.3.2.	5			
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)			6	N/A
	RS2 is a class 2 acoustic energy source that does	s			



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	Na	ational Differences	(8,1)	(0,7)
Clause	Requirement + Test	R	Result - Remark	Verdict
	not exceed the following: — for equipment provided as a pits listening device), and with a connector between the player a device, or when the combination listening device is known by oth setting or automatic 130 detection acoustic output shall be ≤ 100 of the fixed "programme simulation described in EN 50332-1.	proprietary and its listening n of player and ner means such as ion, the LAeq, T dB(A) when playing		
	 for equipment provided with a connector (for example, a 3,5 p allows connection to a listening use, the unweighted r.m.s. outp ≤ 150 mV (analogue interface) interface) when playing the fixed simulation noise" as described in the following the fixed simulation for the fixed simulati	hone jack) that device for general out voltage shall be or -10 dBFS (digital d "programme		
10.6.2.4	RS3 limits RS3 is a class 3 acoustic energ exceeds RS2 limits.	y source that		N/A
10.6.3	Classification of devices (new	v)	(6	N/A
10.6.3.1	General			N/A
	Previous limits (10.6.2) created negative and false positive PMF warnings. New limits, compliant Commission Decision of 23 Junbelow.	Sound level twith The		(ci)
10.6.3.2	RS1 limits (new) RS1 is a class 1 acoustic energ not exceed the following:	y source that does) (6	N/A
	 for equipment provided as a with its listening device), and wi connector between the player a device, or where the combination listening device is known by oth setting or automatic detection, to output shall be ≤ 80 dB when player and the setting or automatic detection, to output shall be ≤ 80 dB when player and the setting or automatic detection, to output shall be ≤ 80 dB when player and the setting or automatic detection in the setting or automatic detection. 	ith a proprietary and its listening on of player and her means such as the LAeq, T acoustic laying the fixed		
	 for equipment provided with a connector (for example, a 3,5 p 		100	



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		I Differences	
Clause	Requirement + Test	Result - Remark	Verdict
(allows connection to a listening device use, the unweighted r.m.s. output volt ≤ 15 mV (analogue interface) or -30 d interface) when playing the fixed "prosimulation noise" described in EN 503	tage shall be IBFS (digital gramme	
10.6.3.3	RS2 limits (new) RS2 is a class 2 acoustic energy soul	rce that does	N/A
	not exceed the following: — for equipment provided as a package its listening device), and with a proprice connector between the player and its device, or where the combination of plistening device is known by other mesetting or automatic detection, the we exposure level, as described in EN 50 be ≤ 80 dB when playing the fixed "pr simulation noise" described in EN 503	etary listening blayer and eans such as ekly sound 0332-3, shall cogramme	
	– for equipment provided with a stand connector (for example, a 3,5 phone) allows connection to a listening deviction use, the unweighted r.m.s. output level over one week, as described in EN50 be ≤ 15 mV (analogue interface) or -3 (digital interface) when playing the fix "programme simulation noise" described 50332-1.	jack) that e for general el, integrated 0332-3, shall 60 dBFS ed	
10.6.4	Requirements for maximum sound	exposure	N/A
10.6.4.1	Measurement methods All volume controls shall be turned to during tests.	maximum	N/A
	Measurements shall be made in according EN 50332-1 or EN 50332-2 as applications.		(3
10.6.4.2	Protection of persons		N/A
(Except as given below, protection recoparts accessible to ordinary person persons and skilled persons are given	ven in 4.3.	
	NOTE 1 Volume control is not consident safeguard.	ereu a	
	7.5		205



Clause

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Nation	nal Differences	
Requirement + Test	Result - Remark	Verdict

Between RS2 and an **ordinary person**, the **basic safeguard** may be replaced by an **instructional safeguard** in accordance with Clause F.5, except that the **instructional safeguard** shall be placed on the equipment, or on the packaging, or in the instruction manual.

Alternatively, the **instructional safeguard** may be given through the equipment display during use.

The elements of the **instructional safeguard** shall be as follows:

– element 1a: the symbol ∠ (2011-01)



L, IEC 60417-6044

- element 2: "High sound pressure" or equivalent wording
- element 3: "Hearing damage risk" or equivalent wording
- element 4: "Do not listen at high volume levels for long periods." or equivalent wording

An **equipment safeguard** shall prevent exposure of an **ordinary person** to an RS2 source without intentional physical action from the **ordinary person** and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off.

The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.

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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	National Differences	(6,1)	(6)
Clause	Requirement + Test	Result - Remark	Verdict
(listening time, independent of how often and how long the personal music player has been switched off.)
	A skilled person shall not be unintentionally exposed to RS3.	Cin	
10.6.5	Requirements for dose-based systems	(67)	N/A
10.6.5.1	General requirements		N/A
(Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.)
	The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physica		CT
(capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific)
	The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be	(chi)	(F)
(how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.)
10.6.5.2	Dose-based warning and requirements		N/A
	When a dose of 100 % <i>CSD</i> is reached, and at least at every 100 % further increase of <i>CSD</i> , the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1.		
	The warning shall at least clearly indicate that		
-	The warning shall at loadt dealty illuloate that	-0-	-05



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)	(0,)	National Differences	(0,)	(0,
Clause	Requirement + Test		Result - Remark	Verdict
(listening above 100 % CSI hearing damage or loss.	D leads to the risk of	0	(2)
10.6.5.3	Exposure-based requirer	nents		N/A
	With only dose-based requeffect could be far separate purpose of educating users practice. In addition to dose a PMP shall therefore also term sound level a user ca	ed in time, defying the sabout safe listening e-based requirements, put a limit to the short-		(F
(The exposure-based limite reduce the sound level not 150 mV integrated over the methodology defined in EN	to exceed 100 dB(A) or e past 180 s, based on I 50332-3.		
9)	The EL settling time (time for reduction to reaching target faster.			(cri
(Test of EL functionality is of EN 50332-3, using the limit equipment provided as a polistening device), the level shall be 100 dB or lower. Further with a standardized connection	ts from this clause. For ackage (player with its integrated over 180 s or equipment provided		(di)
	level integrated over 180 s 150 mV for an analogue in than -10 dBFS for a digital	shall be no more than terface and no more	Cil	(cri
/	NOTE In case the source is (or test signal), the EL may		6	

10.6.6	Requirements for listening devices (headphones,	earphones, etc.)	N/A
10.6.6.1	Corded listening devices with analogue input		N/A
	With 94 dB LAeq acoustic pressure output of the		
	listening device, and with the volume and sound settings in the listening device (for example, built-in		
	volume level control, additional sound features like		
(6	equalization, etc.) set to the combination of positions that maximize the measured acoustic		
	output, the input voltage of the listening device		
	when playing the fixed "programme simulation		
	noise" as described in EN 50332-1 shall be ≥ 75		-05



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(1)	National Diff	1 10 20 1	ED31Q601030
Clause	Requirement + Test	Result - Remark	Verdict
(mV. NOTE The values of 94 dB and 75 mV co with 85 dB and 27 mV or 100 dB and 150		
10.6.6.2	With any playing device playing the fixed "programme simulation noise" described i 50332-1, and with the volume and sound the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured accoutput, the LAeq, T acoustic output of the device shall be ≤ 100 dB with an input sig	n EN settings in volume e of oustic listening	N/A
10.6.6.3	dBFS. Cordless listening devices		N/A
	In cordless mode, – with any playing and transmitting device the fixed programme simulation noise des EN 50332-1; and – respecting the cordless transmission stawhere an air interface standard exists that the equivalent acoustic level; and – with volume and sound settings in the redevice (for example, built-in volume level additional sound features like equalization to the combination of positions that maxim measured acoustic output for the above in programme simulation noise, the LAeq, T.	andards, t specifies eceiving control, n, etc.) set nize the nentioned acoustic	
10.6.6.4	output of the listening device shall be ≤ 10 an input signal of -10 dBFS. Measurement method Measurements shall be made in accordar EN 50332-2 as applicable.		N/A
3	Modification to the whole document		Р





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(*)	(67)	National Differences	(6,7)	(67)
Clause	Requirement + Test		Result - Remark	Verdict

1			wing note: e use of certal I electronic eq			(C)		Р
4		Modification	to Clause 1					Р
	6.	Y.4.5	Note				1	
	(3)	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
				Table 39	anu o			
		8.5.4.2.3	Note	10.2.1	Note 3 and 4 and 5	10.5.3	Note 2	0
		5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	63
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		and 4	
	6	5.4.10.2.1	Note Note	5.4.10.2.2	Note Note	5.4.10.2.3	Note 2 and 3	A
	13	Table 13	Nete	5.4.10.2.2	NI-t-	544000	Note	
		5.4.2.3.2.4	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	
		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	6
		3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	_0.
		0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	
	(6,0	list:	(67))	(67)	`)	(6.2)	2

	5	Modification to 4.Z1	N/A
--	---	----------------------	-----











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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; c) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, rf.1 filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet. 6 Modification to 5.4.2.3.2.4 5.4.2.3.2.4 Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009. 7 Modification to 10.2.1 N/A Add the following to in a edition in table 39: For additional requirements, see 10.5.1.		National Differences		(6)
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. iffler 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. If reliance is placed on protection in the building installation, the installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet. Modification to 5.4.2.3.2.4 Add the following to the end of this subclause: N/A Modification to 10.2.1 N/A Modification to 10.2.1 N/A Add the following to reliance in EN 50491-3:2009.	Clause	Requirement + Test	Result - Remark	Verdict
devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet. 6 Modification to 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. 7 Modification to 10.2.1 N/A 10.2.1 Add the following to c and d in table 39: N/A	4.Z1	To protect against excessive current, short-circuit 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), by	r ne	N/A
or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet. 6 Modification to 5.4.2.3.2.4 Add the following to the end of this subclause: N/A The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009. 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.		devices necessary to comply with the requirement 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		
installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet. 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. 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.	(or permanently connected equipment , to rely of dedicated overcurrent and short-circuit protection in the building installation, provided that the mean of protection, e.g. fuses or circuit breakers, is fully	on ns	
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. Modification to 10.2.1 Add the following to ° and d in table 39: For additional requirements, see 10.5.1.		installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating		(A)
The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009. 7	6	Modification to 5.4.2.3.2.4		N/A
10.2.1 Add the following to °) and d) in table 39: For additional requirements, see 10.5.1.	5.4.2.3.2.	The requirement for interconnection with externa		N/A
For additional requirements, see 10.5.1.	7	Modification to 10.2.1		N/A
8 Modification to 10.5.1 N/A	10.2.1			N/A
- 11//	8	Modification to 10.5.1	AD1 / A	N/A









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Clause	Requirement + Test	Result - Remark	Verdict
Olause	requirement i rest	Tresuit - Tremain	Verdici
10.5.1	Add the following after the first paragraph: For RS 1 compliance is checked by measure under the following conditions:	ment	N/A
	In addition to the normal operating conditions controls adjustable from the outside by hand any object such as a tool or a coin, and those internal adjustments or pre-sets which are no locked in a reliable manner, are adjusted so give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which measurement is made.	, by e ot as to	
	NOTE Z1 Soldered joints and paint lockings examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10	(FI)	(Fi
	at any point 10 cm from the outer surface of apparatus.	the	
	Moreover, the measurement shall be made use fault conditions causing an increase of the his voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.		(K)
	For RS1, the dose-rate shall not exceed 1 µS taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	Sv/h	
9	Modification to G.7.1		N/A
G.7.1	Add the following note:	1.43	N/A

10 Modification to Bibliography	N/A
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TRF No. IEC62368_1E



Annex ZD.

NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in



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(~)	National Differences					
Clause	Requirement + Test		Result - Remark	Verdict		
Clause	Requirement + rest		Result - Remark	verd		

	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 61508-1. IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1. IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4. IEC 61658-2-6 NOTE Harmonized as EN 61658-2-6. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-311 NOTE Harmonized as EN 61643-311. IEC 61643-321 NOTE Harmonized as EN 61643-321. IEC 61643-331 NOTE Harmonized as EN 61643-321. IEC 61643-331 NOTE Harmonized as EN 61643-331.	
11	ADDITION OF ANNEXES	N/A
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	N/A





TRF No. IEC62368_1E

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Clause	Requirement + Test	Result - Remark	Verdic
4.1.15	Denmark, Finland, Norway and Sweden	(i)	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		(2
	network shall, if safety relies on connection to reliable earthing or if surge suppressors		6
	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.		CIN
	The marking text in the applicable countries shall be as follows:		Œ.
	In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."		0
	In Finland : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"		
	In Norway : "Apparatet må tilkoples jordet stikkontakt"		
	In Sweden : "Apparaten skall anslutas till jordat uttag"		(3





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·)	National Difference	s	(67)
Clause	Requirement + Test	Result - Remark	Verdict
4.7.3	United Kingdom To the end of the subclause the following is added.	ed:	N/A
	The torque test is performed using a socket-outle complying with BS 1363, and the plug part shall assessed to the relevant clauses of BS 1363. Alsee Annex G.4.2 of this annex	be	CIT
5.2.2.2	Denmark		N/A
	After the 2nd paragraph add the following:		
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	he	
5.4.11.1	Finland and Sweden	(6)	N/A
and Annex G	To the end of the subclause the following is adde	ed:	<u> </u>
	For separation of the telecommunication network from earth the following is applicable:	k) (
	If this insulation is solid, including insulation form part of a component, it shall at least consist of either	ning	(di
	two layers of thin sheet material, each of wh shall pass the electric strength test below, or	ich	
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	on	
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no	(cri)	CI
	distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances a creepage distances do not exist, if the compone passes the electric strength test in accordance with the compliance clause below and in addition	nt	
	• passes the tests and inspection criteria of 5.4.8	3	· -
77		/ 23/	/ 43



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	(67)	National Differences	(67)	(6)
Clause	Requirement + Test		Result - Remark	Verdic
(with an electric strength 1,6 (the electric strength performed using 1,5 kV)		ру	(in)
		testing for electric streng sing a test voltage of 1,5	th	(S
	It is permitted to bridge to capacitor complying with subclass Y2.			CIN
	A capacitor classified Y3 14:2005, may bridge this the following conditions:		(FI)	(S
				Ci
		g shall be performed on a escribed in EN 60384-14;		(A
	the endurance test in El	V is to be performed befo N 60384-14, in the scribed in EN 60384-14.	re	
5.5.2.1	Norway			N/A
		the following is added: tem used, capacitors are the applicable line-to-line	(chi)	C.









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)	National Differences		(6)		(6)
Clause	Requirement + Test	Result	- Remark		Verdict
5.5.6	Finland, Norway and Sweden To the end of the subclause the following is added:	3		(FI)	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.				(G)
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:				(K)
5.6.4.2.1	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse. Ireland and United Kingdom	(8)		(ii)	N/A
3.6.4.2.1	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.	۸,			N/A
5.6.4.2.1	After the indent for pluggable equipment type A , the following is added:			(ii)	N/A
	 in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A. 				(cr
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 mm ² to 1,5 mm ² in cross-sectional area.				









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Attachm	ent 1 Page	21 of 27 Report No.: El	ED31Q801056
	National I	Differences	(6)
Clause	Requirement + Test	Result - Remark	Verdict
5.6.8	Norway To the end of the subclause the follow Equipment connected with an earthed classified as class I equipment. See the marking requirement in 4.1.15. The sy 60417-6092, as specified in F.3.6.2, is	mains plug is the Norway mbol IEC	N/A
5.7.6	Denmark		N/A
(To the end of the subclause the follow The installation instruction shall be affi equipment if the protective conducto exceeds the limits of 3,5 mA a.c. or 10	xed to the or current	
5.7.6.2	Denmark		N/A
(The warning (marking safeguard) for he current is required if the touch current protective current exceed the limits of	or the	
5.7.7.1	Norway and Sweden		N/A
	To the end of the subclause the follow The screen of the television distribution normally not earthed at the entrance of and there is normally no equipotential system within the building.	n system is f the building	(Fi
	Therefore the protective earthing of the installation needs to be isolated from to a cable distribution system.	-	
	It is however accepted to provide the interconnection cable with galvanic isomay be provided by a retailer, for example of the interconnection cable with galvanic isomay be provided by a retailer, for example of the interconnection cable with galvanic isomatically interconnection.	er or an olator, which	(F)
	The user manual shall then have the formation in Norwegian and Stanguage respectively, depending on it country the equipment is intended to be	Swedish n what	





Requirement + Test

Clause

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National Differences		
	Result - Remark	Verdict

"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

and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"

NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.

Translation to Norwegian (the Swedish text will also be accepted in Norway):

"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare.

For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."

Translation to Swedish:

"Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet."









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·)	National Difference	es	
Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.2.3	United Kingdom Add the following after the 2 nd dash bullet in 3 paragraph:	rd	N/A
	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		(F)
B.3.1 and	Ireland and United Kingdom		N/A
B.4	The following is applicable:	(A)	
	To protect against excessive currents and shor circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 a B.4 shall be conducted using an external minial circuit breaker complying with EN 60898-1, Typ 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	and ture be B, e ded	

G.4.2	Denmark		N/A	١
	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-outlet 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	(*)	_°>	



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Page 24 of 27 Report No.: EED31Q801056 National Differences					
Requirement + Test	Result - Remark	Verdic			
to Class II apparatus with a rated current shall be in accordance DS 60884-2-D1:2 standard sheet DKA 1-4a. Other current rating socket outlets shall	t of 2,5 A 2011 be in				
compliance with DS 60884-2-D1:2011					
United Kingdom	g is added:	N/A			
assessed to BS 1363: Part 1, 12.1, 12.2 12.9, 12.11, 12.12, 12.13, 12.16, and 12 that the test of 12.17 is performed at not 125 °C. Where the metal earth pin is repair Insulated Shutter Opening Device (IS	2, 12.3, 2.17, except t less than blaced by GOD), the	(Fi			
	Requirement + Test 60309-2. Mains socket outlets intended for provid to Class II apparatus with a rated curren shall be in accordance DS 60884-2-D1:: standard sheet DKA 1-4a. Other current rating socket outlets shall compliance with Standard Sheet DKA 1- or DKA 1-1c. Mains socket-outlets with earth shall be compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1 5a or DK 1-7a Justification: Heavy Current Regulations, Section 6c United Kingdom To the end of the subclause the followin The plug part of direct plug-in equipmen assessed to BS 1363: Part 1, 12.1, 12.2, 12.9, 12.11, 12.12, 12.13, 12.16, and 12 that the test of 12.17 is performed at not 125 °C. Where the metal earth pin is regan Insulated Shutter Opening Device (IS	Requirement + Test Result - Remark 60309-2. 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. Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c. 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 Justification: Heavy Current Regulations, Section 6c			











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, itaoriiri	Nat	Page 25 of 27 ional Differences	кероп No.: ЕЕ	
Clause	Requirement + Test	Resu	lt - Remark	Verdict
G.7.1	United Kingdom To the first paragraph the following	ng is added:	(ci)	N/A
	Equipment which is fitted with a fit cord and is designed to be connected socket conforming to BS 1363 by flexible cable or cord shall be fitted plug' in accordance with the Plug (Safety) Regulations 1994, Statu 1994 No. 1768, unless exempted regulations.	ected to a mains / means of that ed with a 'standard gs and Sockets etc. tory Instrument		(chi
G.7.1	NOTE "Standard plug" is defined and essentially means an appropriate conforming to BS 1363 or an appropriate literature. Ireland	oved plug	(ii)	N/A
	To the first paragraph the following Apparatus which is fitted with a fluored shall be provided with a pluowith Statutory Instrument 525: 19 and Conversion Adapters for Doi Regulations: 1997. S.I. 525 provincecognition of a standard of anot	lexible cable or g in accordance 1997, "13 A Plugs mestic Use ides for the		
G.7.2	which is equivalent to the relevant to the first paragraph the following the control of a standard of another which is equivalent to the relevant to the first paragraph the following the control of a standard of another which is equivalent to the relevant to the relevant to the first paragraph the following the control of a standard of another which is equivalent to the relevant	nt Irish Standard	(ci)	N/A
	A power supply cord with a cond is allowed for equipment which is and up to and including 13 A.			(cri
zc	ANNEX ZC, NATIONAL DEVIA	ΓΙΟΝS (EN)		Р









Attachm		Page 26 of 27	Repo	rt No.: EED3	1Q801056
•)	(67)	National Differences	(6,7.)		(6)
Clause	Requirement + Test		Result - Remark		Verdict
10.5.2	Germany The following requiremen	t applies:		(H)	Р
	For the operation of any of for the display of visual im acceleration voltage exce is required, or application approval (Bauartzulassun	nages operating at an eding 40 kV, authorizatio of type			(K)
	Justification: German ministerial decre radiation (Röntgenverordi	•			
	2002-07-01, implementing 96/29/EURATOM.	3 ,	CHI		(cri
	Physikalisch-Technische Bundesallee 100, D-3811 Tel.: Int+49-531-592-6320 http://www.ptb.de	6 Braunschweig,			





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National Differences

Clause Requirement + Test Result - Remark Verdict

Type of flexible cord	Code de	signations
	IEC	CENELEC
PVC insulated cords		-
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F
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	<i>₹</i> -	5.
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-F
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F





















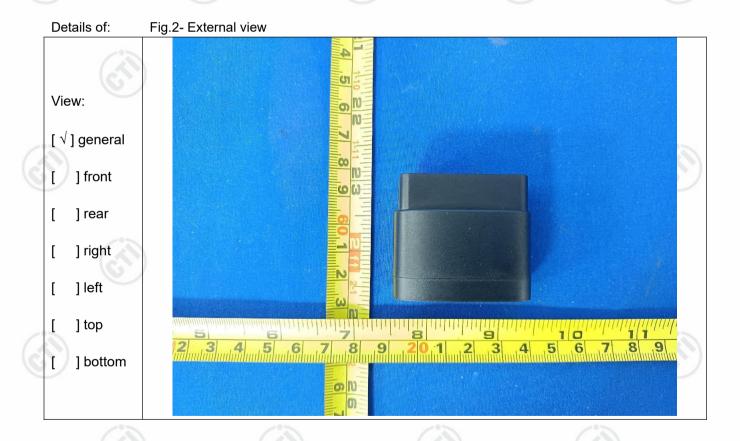




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Details of: Fig.4- External view

View:

[√] general

[] front

[] rear

[] left

[] ltop

[] bottom

CTL 华测 检测

View:

[$\sqrt{\ }$] general

] front

] rear

] right

] left

] top

] bottom

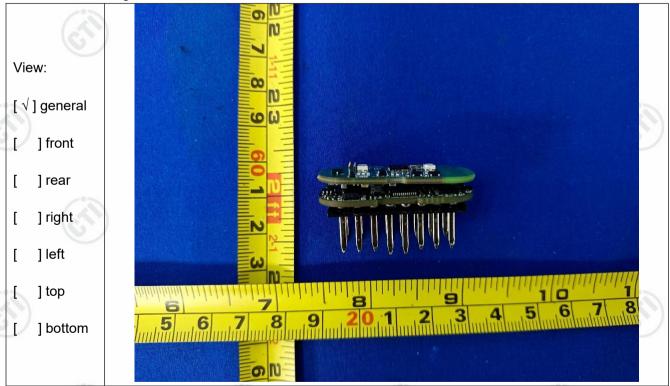
Details of: Fig.5- Terminal view

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Details of: Fig.6- Internal view





View:

[$\sqrt{\ }$] general

] front

] rear

] right

] left

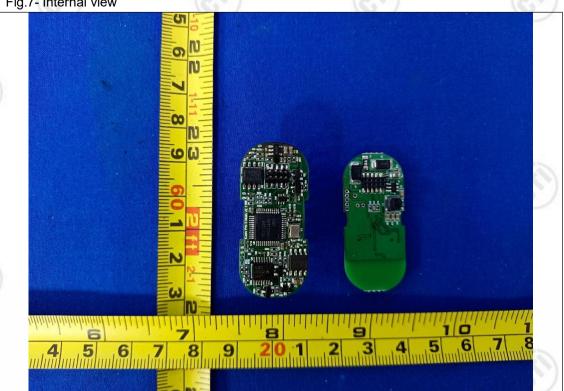
] top

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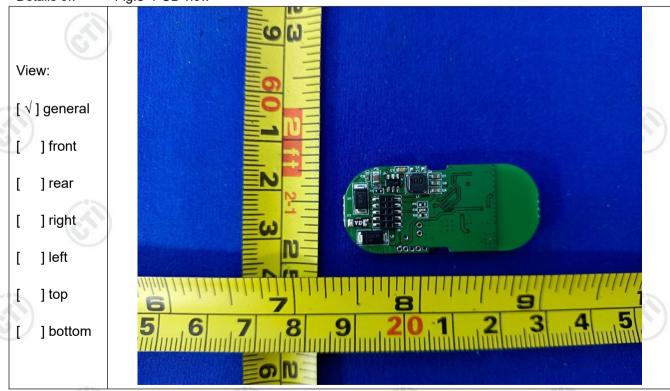
Details of: Fig.7- Internal view

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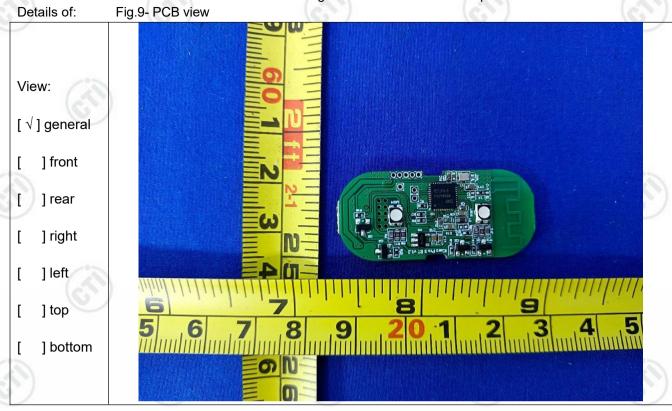


Details of: Fig.8- PCB view

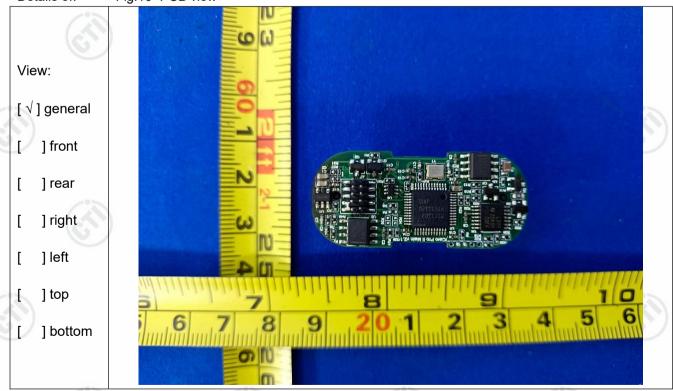




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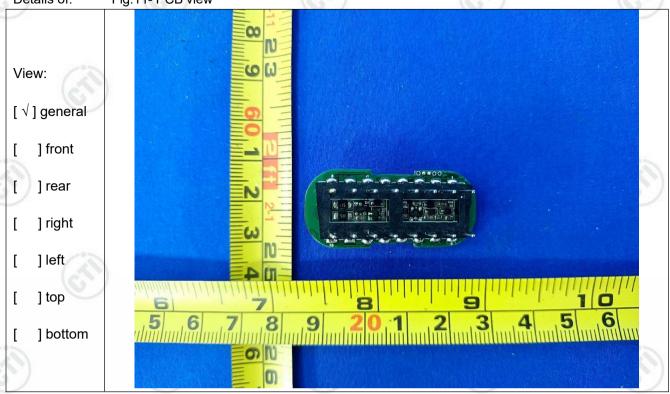


Details of: Fig.10- PCB view





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The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***



