

TEST REPORT IEC 62368-1

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

Report Number.....: AOC250617001S

Date of issue: 2025-06-23

Total number of pages: 72 pages

Name of Testing Laboratory Shenzhen AOCE Electronic Technology Service Co., Ltd

Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China

Applicant's name: Dongguan Excel Jointure Acrylic Products LTD.

Address: Shang Keng Industrial District, Chang Ping Town Dongguan

Guangdong Province, PRC

Test specification:

Standard: : | IEC 62368-1:2018

□ EUROPEAN GROUP DIFFERENCES AND NATIONAL

DIFFERENCES

Test procedure....:: Test report

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

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

Test Report Form No.....: IEC62368_1E

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

Master TRF: Dated 2022-04-14

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		tion materials,Innovative displa CYN- Al point prop	y material,Creative	
Trade Mark: HONO		R		
Manufacturer: Donggi		uan Excel Jointure Acrylic Prod	ducts LTD.	
			Keng Industrial District, Chang dong Province, PRC	Ping Town Dongguan
Mod	el/Type reference:	9711A	FGX	
Rati	ngs:	N/A		
Resp	oonsible Testing Laboratory (as a	pplicat	ole), testing procedure and to	esting location(s):
\boxtimes	Testing Laboratory:		Shenzhen AOCE Electronic 1	Technology Service Co., Ltd
Test	ing location/ address	:	Room 202, 2nd Floor, No.12th Industrial Park, Fuhai Street, E Guangdong, China	
Test	ed by (name, function, signature)	:	Bill Hu	9:11
			Technical Engineer	Fill Hu Robin. Lin
Appı	oved by (name, function, signatu	ıre) :	Robin Liu	7.1. 1.4
			Technical Manager	ROOM: NOC
	Testing procedure: CTF Stage 1:			
Test	ing location/ address			
Test	ed by (name, function, signature)	:		
	roved by (name, function, signatu			
		,		
	Testing procedure: CTF Stage 2:			
Test	ing location/ address	:		
Test	ed by (name + signature)	:		
Witn	essed by (name, function, signat	ure).:		
Аррі	oved by (name, function, signatu	ıre) :		
	Testing procedure: CTF Stage 3:	<u> </u>		
	Testing procedure: CTF Stage 4:	•		
Test	ing location/ address	:		
Test	Tested by (name, function, signature):			
Witn	Witnessed by (name, function, signature).:			
Аррі	oved by (name, function, signatu	ıre) :		
Supervised by (name, function, signature) :				

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

Attachment No.1: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Attachment No.2: Photo document.

Summary of testing:

Tests performed (name of test and test clause):

The submitted samples were found to comply with

the requirements of: IEC 62368-1: 2018

Testing location:

Shenzhen AOCE Electronic Technology Service Co.,

Ltd

Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China

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

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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	only a draft. The use of certification marks on a produce NCBs that own these marks.	t must be
	HONOR Promotion materials,Innovative display material,Creative props,CYN- Al point prop 9711AFGX	
	Manufacturer: Dongguan Excel Jointure Acrylic Products LTD. Made in China	
Note:		

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Test item particulars:			
Product group:	end product] built-in compon	ent
Classification of use by:	☑ Ordinary person☑ Instructed person☑ Skilled person	⊠ Childr	en likely present
Supply connection:	☐ AC mains ☐ not mains connec	☐ DC m eted:]ES2 ☐ ES3	ains
Supply tolerance:	+10%/-10% +20%/-15% +%/%	_	
Supply connection – type:	☐ appliand	achable supply co ce coupler ug-in	ord
		achable supply co ce coupler ction	
Considered current rating of protective	☐A;		, maine
device::	Location:] building	equipment
Equipment mobility::	N/A movable □ direct plug-in □ wall/ceiling-mount		☐ transportable ☐ for building-in
Overvoltage category (OVC):	other: OVC I OVC IV] ovc II	OVC III
Class of equipment::	□ Other: Not Directly □ Class I □ Not classified	/ Connected To T] Class II] other:	he Mains ⊠ Class III
Special installation location:	N/A☐ outdoor location☐ other:	restricted acces	ss area
Pollution degree (PD):	☐ PD 1] PD 2	☐ PD 3
Manufacturer's specified T _{ma} :	35 °C ☐ Outdoor: n	minimum°C	
IP protection class:	⊠ IPX0] IP	
Power systems:	☐ TN ☐ TT ☐ ☐ Not AC mains] IT V _{L-L}	
Altitude during operation (m):	≥ 2000 m or less □] m	
Altitude of test laboratory (m)::	≥ 2000 m or less □] m	

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Website: Http://www.aoc-cert.com

Mass of equipment (kg): ≤7kg

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Possible test case verdicts:		
- test case does not apply to the test object:	N/A	
- test object does meet the requirement:	P (Pass)	
- test object does not meet the requirement:	F (Fail)	
Testing:		
Date of receipt of test item:	2025-05-23	
Date (s) of performance of tests:	2025-05-23 to 2025-06-18	
General remarks:		
"(See Enclosure #)" refers to additional informatio "(See appended table)" refers to a table appended		
Throughout this report a ☐ comma / ☒ point	is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5	5 of IECEE 02:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes ☐ Not applicable	
When differences exist; they shall be identified	in the General product information section.	
Name and address of factory (ies)::	Dongguan Excel Jointure Acrylic Products LTD. Shang Keng Industrial District, Chang Ping Town Dongguan Guangdong Province, PRC	
General product information and other remark	s:	
1. The product covered in this report is a Promotion materials, Innovative display material, Creative props, CYN- Al point prop, for use with audio, video and similar electronic apparatus.		
2. The manufacturer specified maximum ambient	temperature is 35°C.	

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ENERGY SOURCE DIAGRAM			
Optional. Manufacturers are to provide the energy sources diagram identify declared energy sources and dentifying the demarcations are between power sources. Recommend diagram be provided included in power supply and multipart systems.			
Insert diagram below. Example diagram designs are; Block diagrams; image(s) with layered data; mechanical drawings			
⊠ ES ⋈ PS ⋈ MS ⋈ TS □ RS			
(See OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS)			

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		. age e e =		
		IEC 62368-1		
Clause	Requirement + Test		Result - Remark	Verdict

4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	(See appended Table 4.1.2.)	Р
4.1.2	Use of components	Safeguard components are certified to IEC and/or national standards and are used correctly within their ratings.	Р
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)		N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness		N/A
4.4.3.1	General		N/A
4.4.3.2	Steady force tests		N/A
4.4.3.3	Drop tests		N/A
4.4.3.4	Impact tests		N/A
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		N/A
	Glass impact test (1J)		N/A
	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests		N/A
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness		N/A
4.4.4	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks		N/A
4.5	Explosion		N/A
4.5.1	General		N/A
4.5.2	No explosion during normal/abnormal operating condition		N/A
	No harm by explosion during single fault conditions		N/A
4.6	Fixing of conductors		N/A
	Fix conductors not to defeat a safeguard		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Compliance is checked by test:		N/A
4.7	Equipment for direct insertion into mains socke	t-outlets	N/A
4.7.2	Mains plug part complies with relevant standard:		N/A
4.7.3	Torque (Nm)		N/A
4.8	Equipment containing coin/button cell batteries		N/A
4.8.1	General		N/A
4.8.2	Instructional safeguard:		N/A
4.8.3	Battery compartment door/cover construction		N/A
	Open torque test		N/A
4.8.4.2	Stress relief test		N/A
4.8.4.3	Battery replacement test		N/A
4.8.4.4	Drop test		N/A
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test		N/A
4.8.5	Compliance		N/A
	30N force test with test probe		N/A
	20N force test with test hook		N/A
4.9	Likelihood of fire or shock due to entry of cond	uctive object	N/A
4.10	Component requirements		N/A
4.10.1	Disconnect Device		N/A
4.10.2	Switches and relays		N/A
5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sou	rces	Р
5.2.2	ES1, ES2 and ES3 limits	ES1	Р
5.2.2.2	Steady-state voltage and current limits:	ES1	Р
5.2.2.3	Capacitance limits:		N/A
5.2.2.4	Single pulse limits:		N/A
5.2.2.5	Limits for repetitive pulses:		N/A
5.2.2.6	Ringing signals		N/A
5.2.2.7	Audio signals		N/A
5.3	Protection against electrical energy sources		N/A
5.3.1	General Requirements for accessible parts to	ES1	N/A

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5.3.1 a)

ordinary, instructed and skilled persons

Accessible ES1/ES2 derived from ES2/ES3 circuits

N/A

	IEC 62368-1	-	
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2	Contact requirements		N/A
	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		N/A
5.4	Insulation materials and requirements		N/A
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:		N/A
5.4.1.5	Pollution degrees:		N/A
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		N/A
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage		N/A
5.4.1.9	Insulating surfaces		N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		N/A
5.4.1.10.2	Vicat test		N/A
5.4.1.10.3	Ball pressure test:		N/A
5.4.2	Clearances		N/A
5.4.2.1	General requirements		N/A
	Clearances in circuits connected to AC Mains, Alternative method		N/A
5.4.2.2	Procedure 1 for determining clearance		N/A
	Temporary overvoltage:		_
5.4.2.3	Procedure 2 for determining clearance		N/A
5.4.2.3.2.2	a.c. mains transient voltage		_

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4.2.3.2.3	d.c. mains transient voltage		_
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:		N/A
5.4.2.5	Multiplication factors for clearances and test voltages		N/A
5.4.2.6	Clearance measurement:		N/A
5.4.3	Creepage distances		N/A
5.4.3.1	General		N/A
5.4.3.3	Material group:		_
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
	Number of layers (pcs)		N/A
5.4.4.6.3	Non-separable thin sheet material		N/A
	Number of layers (pcs):		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material		N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components		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		N/A
5.4.5.3	Insulation resistance (MΩ):		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.5.1	General		N/A
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:		N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers		N/A
5.5.5	Relays		N/A
5.5.6	Resistors		N/A
5.5.7	SPDs		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
	RCD rated residual operating current (mA):		_
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors		N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation		N/A
5.6.3	Requirement for protective earthing conductors		N/A
	Protective earthing conductor size (mm²):		_
	Protective earthing conductor serving as a reinforced safeguard		N/A
	Protective earthing conductor serving as a double safeguard		N/A
5.6.4	Requirements for protective bonding conductors		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		N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm):		N/A
	Terminal size for connecting protective bonding conductors (mm):		N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective bonding system		N/A
5.6.6.1	Requirements		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.6.6.2	Test Method:		N/A
5.6.6.3	Resistance (Ω) or voltage drop:		N/A
5.6.7	Reliable connection of a protective earthing conductor		N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm²):		N/A
	Class II with functional earthing marking:		N/A
	Appliance inlet cl & cr (mm):		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:		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
	Instructional Safeguard:		N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits		N/A
5.7.7.1	Touch current from coaxial cables		N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables		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		N/A
	Air gap (mm):		N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS		Р
6.2.2	Power source circuit classifications	PS1	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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	N/A
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials:		N/A
	Combustible materials outside fire enclosure:		N/A
6.4	Safeguards against fire under single fault condition	ons	N/A
6.4.1	Safeguard method		N/A
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		N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions:		N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits	PS1	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		N/A
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier		N/A
6.4.8	Fire enclosures and fire barriers		N/A
6.4.8.2	Fire enclosure and fire barrier material properties		N/A
6.4.8.2.1	Requirements for a fire barrier		N/A
6.4.8.2.2	Requirements for a fire enclosure		N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		N/A
6.4.8.3.1	Fire enclosure and fire barrier openings		N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top openings and properties		N/A
	Openings dimensions (mm):		N/A
6.4.8.3.4	Bottom openings and properties		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Openings dimensions (mm):		N/A
	Flammability tests for the bottom of a fire enclosure		N/A
	Instructional Safeguard		N/A
6.4.8.3.5	Side openings and properties		N/A
	Openings dimensions (mm)		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:		N/A
6.4.9	Flammability of insulating liquid		N/A
6.5	Internal and external wiring		N/A
6.5.1	General requirements		N/A
6.5.2	Requirements for interconnection to building wiring		N/A
6.5.3	Internal wiring size (mm²) for socket-outlets:		N/A
6.6	Safeguards against fire due to the connection to	additional equipment	N/A

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

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

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Clause	Requirement + Test	Result - Remark	Verdict
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		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		N/A
8.5.4.2	Equipment containing work cells with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work cell		N/A
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system		N/A
8.5.4.2.2.2	Visual indicator		N/A
8.5.4.2.3	Emergency stop system		N/A
	Maximum stopping distance from the point of activation (m)		N/A
	Space between end point and nearest fixed mechanical part (mm):		N/A
8.5.4.2.4	Endurance requirements		N/A
	Mechanical system subjected to 100 000 cycles of operation		N/A
	- Mechanical function check and visual inspection		N/A
	- Cable assembly		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media		N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:		N/A
8.5.4.3.3	Disconnection from the supply		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
	Explosion test		N/A
8.5.5.3	Glass particles dimensions (mm)		N/A
8.6	Stability of equipment	•	N/A
8.6.1	General		N/A

8.11	Mounting means for slide-rail mounted equipmen	t (SRME)	N/A
8.10.6	Thermoplastic temperature stability		N/A
	Force applied (N)		
8.10.5	Mechanical stability		N/A
8.10.4	Cart, stand or carrier impact test		N/A
	Loading force applied (N):		N/A
8.10.3	Cart, stand or carrier loading test		N/A
8.10.2	Marking and instructions:		N/A
8.10.1	General		N/A
8.10	Carts, stands and similar carriers	1	N/A
8.9.2	Pull test		N/A
8.9	Wheels or casters attachment requirements	1	N/A
	Force applied (N):		
	Number of handles:		_
8.8.2	Handle strength test		N/A
8.8.1	General		N/A
8.8	Handles strength	1	N/A
	Test 3 Nominal diameter (mm) and applied torque (Nm):		N/A
	Test 2, number of attachment points and test force (N):		N/A
	Test 1, additional downwards force (N)		N/A
8.7.2	Test methods		N/A
8.7.1	Mount means type		N/A
8.7	Equipment mounted to wall, ceiling or other struc	ture	N/A
8.6.5	Horizontal force test		N/A
8.6.4	Glass slide test		N/A
	Tilt test		N/A
	Wheels diameter (mm)		
8.6.3	Relocation stability		N/A
8.6.2.3	Downward force test		N/A
8.6.2.2	Static stability test		N/A
8.6.2	Static stability		N/A
	Instructional safeguard		N/A
Clause	Requirement + Test	Result - Remark	Verdic

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Clause	Requirement + Test	Result - Remark	Verdict
8.11.1	General		N/A
8.11.2	Requirements for slide rails		N/A
	Instructional Safeguard:		N/A
8.11.3	Mechanical strength test		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		N/A
8.11.4	Compliance		N/A
8.12	Telescoping or rod antennas		N/A
	Button/ball diameter (mm)		_

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits		Р
9.3.1	Touch temperatures of accessible parts:	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
9.3.2	Test method and compliance		Р
9.4	Safeguards against thermal energy sources		N/A
9.5	Requirements for safeguards		N/A
9.5.1	Equipment safeguard		N/A
9.5.2	Instructional safeguard:		N/A
9.6	Requirements for wireless power transmitters		N/A
9.6.1	General		N/A
9.6.2	Specification of the foreign objects		N/A
9.6.3	Test method and compliance		N/A

10	RADIATION	N/A
10.2	Radiation energy source classification	N/A
10.2.1	0.2.1 General classification	
	Lasers:	_
	Lamps and lamp systems:	_
	Image projectors:	_
	X-Ray:	_
	Personal music player:	_

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Clause	Requirement + Test Result - Remark	Verdict
10.3	Safeguards against laser radiation	N/A
	The standard(s) equipment containing laser(s) comply:	N/A
10.4	Safeguards against optical radiation from lamps and lamp systems (including LED types)	N/A
10.4.1	General requirements	N/A
	Instructional safeguard provided for accessible radiation level needs to exceed	N/A
	Risk group marking and location:	N/A
	Information for safe operation and installation	N/A
10.4.2	Requirements for enclosures	N/A
	UV radiation exposure	N/A
10.4.3	Instructional safeguard:	N/A
10.5	Safeguards against X-radiation	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	N/A
	Acoustic output L _{Aeq,T} , dB(A)	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
	30 s integrated exposure level (MEL30):	N/A
	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.)	N/A
10.6.6.1	Corded listening devices with analogue input	N/A
	Listening device input voltage (mV):	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
	Max. acoustic output L _{Aeq,T} , dB(A)		N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS	N/A
B.1	General	N/A
B.1.5	Temperature measurement conditions	N/A
B.2	Normal operating conditions	N/A
B.2.1	General requirements:	N/A
	Audio Amplifiers and equipment with audio amplifiers:	N/A
B.2.3	Supply voltage and tolerances	N/A
B.2.5	Input test:	N/A
B.3	Simulated abnormal operating conditions	N/A
B.3.1	General	N/A
B.3.2	Covering of ventilation openings	N/A
	Instructional safeguard:	N/A
B.3.3	DC mains polarity test	N/A
B.3.4	Setting of voltage selector	N/A
B.3.5	Maximum load at output terminals	N/A
B.3.6	Reverse battery polarity	N/A
B.3.7	Audio amplifier abnormal operating conditions	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions:	N/A
B.4	Simulated single fault conditions	N/A
B.4.1	General	N/A
B.4.2	Temperature controlling device	N/A
B.4.3	Blocked motor test	N/A
B.4.4	Functional insulation	N/A
B.4.4.1	Short circuit of clearances for functional insulation	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	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors		N/A
B.4.6	Short circuit or disconnection of passive components		N/A
B.4.7	Continuous operation of components		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		N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radi	ation	N/A
C.1.2	Requirements		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		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAININ	G AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio s	ignals	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		N/A
	Audio signal source type:		_
	Audio output power (W):		_
	Audio output voltage (V):		_
	Rated load impedance (Ω):		_
	Requirements for temperature measurement		N/A
E.3	Audio amplifier abnormal operating conditions		N/A
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Clause R	equirement + Test		Result - Remark	Verdict

Clause	Requirement + Test	Result - Remark	Verdict
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND II SAFEGUARDS	NSTRUCTIONAL	Р
F.1	General		Р
	Language:	English	_
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1		Р
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific		Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	The equipment marking is located on the surface and is easily visible.	Р
F.3.2	Equipment identification markings	See below.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	Р
F.3.2.2	Model identification:	See copy of marking plate	Р
F.3.3	Equipment rating markings		Р
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains		Р
F.3.3.3	Nature of the supply voltage:	See copy of marking plate	Р
F.3.3.4	Rated voltage:	See copy of marking plate	Р
F.3.3.5	Rated frequency:		N/A
F.3.3.6	Rated current or rated power:	See copy of marking plate	Р
F.3.3.7	Equipment with multiple supply connections	Only one connection.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices		N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings		N/A
F.3.5.2	Switch position identification marking:		N/A
F.3.5.3	Replacement fuse identification and rating markings		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		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		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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:		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	All markings required are easily discernible under normal lighting conditions.	Р
F.3.10	Test for permanence of markings	After rubbing test by water and petroleum spirit, the marking still legible; it is not easily possible to remove the marking plate and show no curling.	P
F.4	Instructions		N/A
	a) Information prior to installation and initial use		N/A
	b) Equipment for use in locations where children not likely to be present		N/A
	c) Instructions for installation and interconnection		N/A
	d) Equipment intended for use only in restricted access area		N/A
	e) Equipment intended to be fastened in place		N/A
	f) Instructions for audio equipment terminals		N/A
	g) Protective earthing used as a safeguard		N/A
	h) Protective conductor current exceeding ES2 limits		N/A
	i) Graphic symbols used on equipment		N/A
	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		N/A
	m) Installation instructions for outdoor equipment		N/A
F.5	Instructional safeguards		N/A
G	COMPONENTS		N/A
G.1	Switches		N/A
G.1.1	General		N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.1.3	Test method and compliance		N/A
G.2	Relays		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
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics		N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors		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		N/A
G.3.5.2	Single faults conditions:		N/A
G.4	Connectors		N/A
G.4.1	Spacings		N/A
G.4.2	Mains connector configuration:		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A
G.5	Wound components		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		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Test time (days per cycle):		_
	Test temperature (°C):		_
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:		N/A
	Position		N/A
	Method of protection:		N/A
G.5.3.2	Insulation		N/A
	Protection from displacement of windings:		_
G.5.3.3	Transformer overload tests		N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding temperatures		N/A
G.5.3.3.3	Winding temperatures - alternative test method		N/A
G.5.3.4	Transformers using FIW		N/A
G.5.3.4.1	General		N/A
	FIW wire nominal diameter:		
G.5.3.4.2	Transformers with basic insulation only		N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:		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		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

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Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
G.5.4.9	Series motors		N/A
	Operating voltage:		_
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation		N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements		N/A
	Туре		_
G.7.2	Cross sectional area (mm² or AWG):		N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N)		N/A
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material		N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Test method and compliance		N/A
	Overall diameter or minor overall dimension, <i>D</i> (mm):		_
	Radius of curvature after test (mm):		_
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		N/A
G.8	Varistors		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.8.1	General requirements		N/A
G.8.2	Safeguards against fire		N/A
G.8.2.1	General		N/A
G.8.2.2	Varistor overload test		N/A
G.8.2.3	Temporary overvoltage test		N/A
G.9	Integrated circuit (IC) current limiters		N/A
G.9.1	Requirements		N/A
	IC limiter output current (max. 5A):		_
	Manufacturers' defined drift:		
G.9.2	Test Program		N/A
G.9.3	Compliance		N/A
G.10	Resistors		N/A
G.10.1	General		N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test		N/A
G.10.4	Voltage surge test		N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test		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
	Optocouplers comply with IEC 60747-5-5 with specifics		N/A
	Type test voltage V _{ini,a} :		
	Routine test voltage, V _{ini, b} :		_
G.13	Printed boards		N/A
G.13.1	General requirements		N/A
G.13.2	Uncoated printed boards		N/A
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation:		N/A

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	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:		N/A
G.15	Pressurized liquid filled components		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		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
	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:		_
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		N/A
H.3.1.1	Frequency (Hz)		_
H.3.1.2	Voltage (V)		

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Clause	Requirement + Test	Result - Remark	Verdict
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
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V):		N/A
J	INSULATED WINDING WIRES FOR USE WITHOU INSULATION	T INTERLEAVED	N/A
J.1	General		N/A
	Winding wire insulation:		_
	Solid round winding wire, diameter (mm):		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		N/A
K.1	General requirements		N/A
	Instructional safeguard:		N/A
K.2	Components of safety interlock safeguard mechanic	anism	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		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:		N/A
K.7.2	Overload test, Current (A):		N/A
K.7.3	Endurance test		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
K.7.4	Electric strength test		N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single-phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
	Instructional safeguard:		N/A
M	EQUIPMENT CONTAINING BATTERIES AND THE	IR PROTECTION CIRCUITS	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
M.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 battery	a portable secondary lithium	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

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Clause	Requirement + Test Result - Remark	Verdict
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	N/A
M.4.4.4	Check of the charge/discharge function	N/A
M.4.4.5	Charge / discharge cycle test	N/A
M.4.4.6	Compliance	N/A
M.5	Risk of burn due to short-circuit during carrying	N/A
M.5.1	Requirement	N/A
M.5.2	Test method and compliance	N/A
M.6	Safeguards against short-circuits	N/A
M.6.1	External and internal faults	N/A
M.6.2	Compliance	N/A
M.7	Risk of explosion from lead acid and NiCd batteries	N/A
M.7.1	Ventilation preventing explosive gas concentration	N/A
	Calculated hydrogen generation rate:	N/A
M.7.2	Test method and compliance	N/A
	Minimum air flow rate, Q (m³/h):	N/A
M.7.3	Ventilation tests	N/A
M.7.3.1	General	N/A
M.7.3.2	Ventilation test – alternative 1	N/A
	Hydrogen gas concentration (%):	N/A
M.7.3.3	Ventilation test – alternative 2	N/A
	Obtained hydrogen generation rate:	N/A
M.7.3.4	Ventilation test – alternative 3	N/A
	Hydrogen gas concentration (%):	N/A
M.7.4	Marking:	N/A
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte	N/A
M.8.1	General	N/A
M.8.2	Test method	N/A
M.8.2.1	General	N/A
M.8.2.2	Estimation of hypothetical volume Vz (m³/s):	
M.8.2.3	Correction factors:	
M.8.2.4	Calculation of distance d (mm):	
M.9	Preventing electrolyte spillage	N/A
M.9.1	Protection from electrolyte spillage	N/A

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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 AND CLEARANCES	N/A
	Value of <i>X</i> (mm):	_
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS	N/A
P.1	General	N/A
P.2	Safeguards against entry or consequences of entry of a foreign object	N/A
P.2.1	General	N/A
P.2.2	Safeguards against entry of a foreign object	N/A
	Location and Dimensions (mm):	_
P.2.3	Safeguards against the consequences of entry of a foreign object	N/A
P.2.3.1	Safeguard requirements	N/A
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	N/A
	Transportable equipment with metalized plastic parts:	N/A
P.2.3.2	Consequence of entry test:	N/A
P.3	Safeguards against spillage of internal liquids	
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 parts	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	N/A
Q.1.1	Requirements	N/A

·	002300170013
	Verdict
	N/A
· · · · · · · · · · · · · · · · · · ·	N/A
	N/A
	N/A
17.0	N/A
Test method and compliance:	N/A
Current rating of overcurrent protective device (A)	N/A
Test for external circuits – paired conductor cable	N/A
Maximum output current (A):	N/A
Current limiting method:	_
LIMITED SHORT CIRCUIT TEST	N/A
General	N/A
Test setup	N/A
Overcurrent protective device for test:	_
Test method	N/A
Cord/cable used for test:	_
Compliance	N/A
TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W	nt 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
Flammability test for fire enclosure and fire barrier integrity	N/A
Samples, material:	_
Wall thickness (mm):	_
0 191 1 (00)	
Conditioning (°C):	
	Requirement + Test

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Clause	Requirement + Test	Result - Remark	Verdict
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 enclosures and fire barrier materials of equipment where the steady state power exceeding 4 000 W		N/A
	Samples, material:		
	Wall thickness (mm):		
	Conditioning (°C):		_
Т	MECHANICAL STRENGTH TESTS		N/A
T.1	General		N/A
T.2	Steady force test, 10 N:		N/A
T.3	Steady force test, 30 N:		N/A
T.4	Steady force test, 100 N:		N/A
T.5	Steady force test, 250 N:		N/A
T.6	Enclosure impact test		N/A
	Fall test		N/A
	Swing test		N/A
T.7	Drop test:		N/A
T.8	Stress relief test::		N/A
T.9	Glass Impact Test:		N/A
T.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
U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1	General		N/A
	Instructional safeguard :		N/A
U.2	Test method and compliance for non-intrinsically p	rotected CRTs	N/A
U.3	Protective screen		N/A
V	DETERMINATION OF ACCESSIBLE PARTS		N/A
V.1	Accessible parts of equipment		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
V.1.1	General		N/A
V.1.1			N/A
V.1.2	Surfaces and openings tested with jointed test probes		IN/A
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		N/A
Х	ALTERNATIVE METHOD FOR DETERMINING CLE IN CIRCUITS CONNECTED TO AN AC MAINS NOT (300 V RMS)		N/A
	Clearance:		N/A
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDOO	R ENCLOSURES	N/A
Y.1	General		N/A
Y.2	Resistance to UV radiation		N/A
Y.3	Resistance to corrosion		N/A
Y.3	Resistance to corrosion		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:		N/A
Y.3.2	Test apparatus		N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A
Y.3.4	Test procedure:		N/A
Y.3.5	Compliance		N/A
Y.4	Gaskets		N/A
Y.4.1	General		N/A
Y.4.2	Gasket tests		N/A
Y.4.3	Tensile strength and elongation tests		N/A
	Alternative test methods:		N/A
Y.4.4	Compression test		N/A
Y.4.5	Oil resistance		N/A
Y.4.6	Securing means		N/A
Y.5	Protection of equipment within an outdoor enclos	sure	N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		N/A
	Relevant tests of IEC 60529 or Y.5.3:		N/A
Y.5.3	Water spray test		N/A

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Requirement + Test	Result - Remark	Verdict
Protection from plants and vermin		N/A
Protection from excessive dust		N/A
General		N/A
IP5X equipment		N/A
IP6X equipment		N/A
Mechanical strength of enclosures		N/A
General		N/A
Impact test:		N/A
	Protection from plants and vermin Protection from excessive dust General IP5X equipment IP6X equipment Mechanical strength of enclosures General	Requirement + Test Protection from plants and vermin Protection from excessive dust General IP5X equipment IP6X equipment Mechanical strength of enclosures General

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Clause	Requirement + Test		Result - Remark	Verdict

5.2	TABLE: Classification of electrical energy sources						Р
Supply Voltage	Location (e.g. circuit designation)	Test conditions	ons Parameters				ES Class
Vollago	onoun designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Oldoo
	All parts	Normal					ES1 (decla red)

Supplementary information:

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

5.4.1.8	TABLE: Working voltage measurement					
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comm	ents
		-				
Supplementary information:						

5.4.1.10.2 TABLE: Vicat softening temperature of thermoplastics						N/A
Method	Method: ISO 306 / B50					
Object/ Part	No./Material	Manufacturer/trademark	-	Thickness (mm)	T softenii	ng (°C)
Supplementary information:						

5.4.1.10.3	0.3 TABLE: Ball pressure test of thermoplastics						
Allowed imp	Allowed impression diameter (mm) ≤ 2 mm						
						ression eter (mm)	
Supplementary information:							

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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)

Supplementary information:

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

5.4.4.2	TABLE: Minimum distance through insulation							
Distance through insulation (DTI) at/of		Peak voltage (V)	Insulation	Required DTI (mm)	Mea	sured DTI (mm)		
Supplement	ary information:							

5.4.4.9	TABLE: Solid insulation at frequencies >30 kHz						N/A
Insulation material		E _P	Frequency (kHz)	K R	Thickness d (mm)	Insulation	V _{PW} (Vpk)
Supplementary information:							

5.4.9	TABLE: Electric strength tests			N/A
Test voltage	applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No
Supplement	ary information:			

5.5.2.2	TABLE:	ABLE: Stored discharge on capacitors									
Location Supply voltage (V) Operating and fault condition 1) Switch position					Measured voltage (Vpk)	Ε	S Class				
Supplementary information:											

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				IEC 62						000170010	
Clause	Require	ment + Test				Resu	ılt - Remark			Verdict	
bleeding	resistor		g., r	normal operation	ı, or open fu	use), :	SC= short o	ircuit, O0)= ope	en circuit	
5.6.6	TABLE	: Resistance o	of pr	otective condu	ctors and t	ermiı	nations			N/A	
Location Test current (A) Duration (v) Voltage drop (v) Resistance (Ω)											
Supplement	ary inforn	nation:									
5.7.4	4 TABLE: Unearthed accessible parts N/A										
Location	fault conditions Voltage (V) Voltage Current Freq.								ES class		
	(V _{rms} or V _{pk}) (A _{rms} or A _{pk}) (Hz)										
Supplement	•										
Abbreviation	n: SC= S	hort circuit; O(<i>-</i> = 0	pen circuit							
5.7.5	TARLE	· Farthad acc	000	ible conductive	nart					N/A	
		artired acc			ραιτ					IN/A	
				[] Single Phas	o:[]Three		e [] Delta	[] W/va		_	
. ,		System						[] vv ye		_	
Location		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Fault Condition			uch current	(Comme	ent	
2004				60990 clause 6			(mA)			on.	
Supplement	tary Infor	mation:									
	1									Г	
5.8	TABLE			uard in battery			•			N/A	
Location		Supply voltage (V)	Оре	erating and fault condition	Time (s)		pen-circuit oltage (V)	Touch current		ES Class	
Supplementary information:											
Abbreviation	n: SC= s	hort circuit, OC	C= 0	pen circuit							

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Clause	Requirement + Test		Result - Remark	Verdict

6.2.2	TABLE: Pow	ABLE: Power source circuit classifications								
Location	Location Operating and fault condition Voltage (V) Current (A) Max. Power ¹⁾ Time (S)						PS class			

Supplementary information:

Abbreviation: SC= short circuit; OC= open circuit

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

6.2.3.1	TABLE: Determine	TABLE: Determination of Arcing PIS								
Location		Open circuit voltage Measured r.m. after 3 s (Vpk) current (A)		Calculated value	Arcing PIS? Yes / No					
Supplementary information:										

6.2.3.2	TABLE: Determin	nation of resistive PIS		N/A					
Location		Operating and fault condition	Dissipate power (W)	Resistive PIS? Yes / No					
Supplementary information:									
Abbreviation	Abbreviation: SC= short circuit; OC= open circuit								

8.5.5	TABLE: High pre	ABLE: High pressure lamp						
Lamp manufacturer		Lamp type	Explosion method	Longest axis of glass particle (mm)	bey	ticle found yond 1 m es / No		
Supplementary information:								

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				IEC 6	2368-1				
Clause	Require	ment + Tes	t			Result - I	Remark		Verdict
9.6	TABLE: Temperature measurements for wireless power transmitters								N/A
Supply voltage (V): :								_	
Max. trans	smit power	of transmi	tter (W)	:					_
			eiver and contact		eiver and contact		ver and at of 2 mm		ver and at of 5 mm
Foreign	Foreign objects Object Ambient Object Ambient Object Object Oc) Oc) Oc) Oc) Oc)						Ambient (°C)		

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Tempe	rature mea	asurem	ents				Р	
Supply volta	age (V)	-	-	_					
Ambient ter	nperature during	test T_{amb} (°	C) :	25.0	35.0			_	
Maximum n	neasured tempera	ature <i>T</i> of p	art/at:		Т(°C)		Allowed T _{max} (°C)	
Plastic encl	osure (Top)			27.9				48	
Plastic encl	osure (Bottom)			27.5				48	
Temperatur	e T of winding:	t ₁ (°C)	R ₁ (Ω	2) t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class	
Supplementary information:									

B.2.5		TABLE: Ir	ABLE: Input test									
U (V)	Hz	I (A)	I (A) I rated (A) P (W) P rated (W) Fuse No I fuse (A) Condition/state									
Supplen	Supplementary information:											
Equipment may be have rated current or rated power or both. Both should be measured.												

B.3, B.4	ABLE: Ab	ABLE: Abnormal operating and fault condition tests								
Ambient temp	erature T _{am}	ature T _{amb} (°C): 25°C if not specified								
Power source	for EUT: N	lanufactu	rer, model	/type, out	putrating:			_		
Component N	o. Condition Supply Test Fuse no. current Observation									

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Supplementary information:

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				IEC 62	368-1			
Clause	Req	uirement + Test				Result - Re	emark	Verdict
		voltage (V)	time		(A)			
Supplement	tary ir	nformation:						
						,		

M.3	TABLE: Prot	ection circu	its f	or batteri	es provid	ed v	vithin	the eq	uipment	N/A	
Is it possible t	to install the ba	attery in a rev	vers	e polarity p	osition?	:			No		
Equipment 9	Specification				С	harç	ging				
Equipment	Specification		V	oltage (V)				Current (A)			
_	-										
					Battery	spe	cificat	tion			
			Non-rechargeable batteries			Rechargeable batteries					
		Dischargin		ntentional	C	Char			Reverse		
Manufact	turer/type	g current (A)		harging irrent (A)	Voltage	(V)	Curr	ent (A)	current (A)	charging current (A)	
Note: The tes	ts of M.3.2 are	applicable o	nly v	vhen above	e appropri	ate c	data is	not ava	ailable.		
Specified batt	tery temperatu	ıre (°C)				:				_	
Component No.	Fault condition	Charge/ discharge mode		Test time	Temp. (°C)		rrent (A)	Voltag (V)	e Obse	rvation	
Supplementary information:											
	SC= short circosion; NF= no								no spillage of	liquid;	

M.4.2	TABLE: battery	Charging sa	feguards for	equipment co	ontaining a s	econdary lithium	N/A
Maximum s	pecified c	harging voltag	e (V)		. :		
Maximum s	mum specified charging current (A): :					_	
Highest spe	cified cha	arging tempera	ture (°C)		.:		_
Lowest spe	cified cha	rging temperat	ure (°C)		. :		_
Battery		Operating		Measurement		Observation	
manufacture	er/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)		

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Clause	Requirer	ment + Test			Result - Re	mark	Verdict	
			ı	1	1	1		
-								
Suppleme	ntary inforn	nation:						
MSCC= m	aximum sp		ng current; HS			d charging voltage; jing temperature;		

Q.1	TABLE: Circuits i	TABLE: Circuits intended for interconnection with building wiring (LPS)						
Output Circuit	Condition	U _{oc} (V)	Time (s)	I _{sc} (A)		S (VA)		
Output Circuit	Condition	Ooc (V)	Tille (S)	Meas.	Limit	Meas.	Limit	
Supplementary I	Supplementary Information:							

T.2, T.3, T.4, T.5								N/A
Part/Location		Material	Thicknes s (mm)	Probe	Force (N)	Test Duration (s)	Observa	tion
Supplementary information:								

T.6, T.9	TABLE: Impa	act test				N/A
Location/part		Material	Thickness (mm)	Height (mm)	Observation	n
Supplementary information:						

T.7	TABLE: Dro	o test				N/A
Location/part		Material	Thickness (mm)	Height (mm)	Observation	n
Supplementary information:						

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			i age	10 01 72		rtoporti	10 / 10020	00170010
			IEC 6	2368-1				
Clause Requirement + Test				Result - Remark			Verdict	
T.8	T.8 TABLE: Stress relief test					N/A		
Location/Part		Material	Thickness (mm)	Oven Temperature (°C)		Duration (h)	Observation	
Supplementary information:								

Х	TABLE: Alternati	ABLE: Alternative method for determining minimum clearances distances						
Clearance distanced between:		Peak of working voltage (V)	Required cl (mm)	Measured cl (mm)				
Supplement	Supplementary information:							

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Clause	Requirement + Test		Result - Remark	Verdict

4.1.2	TABLE: Critical components information					
Object / part No.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark((s) of rmity ¹⁾
Plastic enclosure	Interchangeable	Interchangeable	80 °C, Min. HB, Min. thickness: 1.0 mm	UL 94 UL 746C	UL	

Supplementary information:

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¹⁾ Provided evidence ensures the agreed level of compliance. See OD-2039.

 $^{^{2)}}$ Description line content is optional. Main line description needs to clearly detail the component used for testing.

ATTACHMENT # 1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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_1C

Attachment Originator: UL (Demko)

Master Attachment 2021-02-04

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	CENELEC COMMON MODIFICATIONS (EN)	Р			
	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018.	Р			
	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".				
	Add the following annexes:	Р			
	Annex ZA (normative) Normative references to international publications with their corresponding European publications				
	Annex ZB (normative) Special national conditions				
	Annex ZC (informative) A-deviations				
	Annex ZD (informative) IEC and CENELEC code designations for flexible cords				
1	Modification to Clause 3.	_			
3.3.19	Sound exposure	N/A			
	Replace 3.3.19 of IEC 62368-1 with the following definitions:				
3.3.19.1	momentary exposure level, MEL	N/A			
	metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2.				
	Note 1 to entry: MEL is measured as A-weighted levels in dB.				
	Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.				
3.3.19.3	sound exposure, E	N/A			
	A-weighted sound pressure (p) squared and integrated over a stated period of time, T				
	Note 1 to entry: The SI unit is Pa ² s.				

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ATTACHMENT # 1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requirement + Test	Result - Remark	Verdict
	$E = \int_{0}^{T} p(t)^{2} dt$		
3.3.19.4	sound exposure level, SEL		N/A
	logarithmic measure of sound exposure relative reference value, E_0 , typically the 1 kHz threshold of hearing in humans.	to a	
	Note 1 to entry: SEL is measured as A-weighted levels in d	В.	
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$		
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.		
3.3.19.5	digital signal level relative to full scale, dBFS	3	N/A
	levels reported in dBFS are always r.m.s. Full s level, 0 dBFS, is the level of a dc-free 997-Hz sine wave whose undithered positive peak v is positive digital full scale, leaving the code corresponding to negative digital full scale unus	alue	
	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. level Because the definition of full scale is based on a sine wave level of signals with a crest factor lower than that of a sine way exceed 0 dBFS. In particular, square wave signals may reach +3,01 dBFS.	the vave	
2	Modification to Clause 10		_
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:		N/A
10.6.1.1	Introduction		N/A
	Safeguard requirements for protection against term exposure to excessive sound pressure levels from personal music players closely coup 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:	oled e	
	 is designed to allow the user to listen to audio audiovisual content / material; and uses a listening device, such as headphones 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 	or	

ATTACHMENT # 1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Clause Requirement + Test Result - Remark Verdict is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.). EXAMPLES Portable CD players, MP3 audio players, mobile phones with MP3 type features, PDAs or similar equipment. Personal music players shall comply with the requirements of either 10.6.2 or 10.6.3. NOTE 1 Protection against acoustic energy sources from telecom applications is referenced to ITU-T P.360. NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore. manufacturers are encouraged to implement 10.6.5 as soon as Listening devices sold separately shall comply with the requirements of 10.6.6. These requirements are valid for music or video mode only. The requirements do not apply to: - professional equipment; NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment. hearing aid equipment and other devices for assistive listening; the following type of analogue personal music players: long distance radio receiver (for example, a multiband radio receiver or world band radio receiver, an AM radio receiver), and cassette player/recorder; NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies. - a player while connected to an external amplifier that does not allow the user to walk around while in use. For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply. The relevant requirements are given in EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply. Non-ionizing radiation from radio frequencies in 10.6.1.2 N/A the range 0 to 300 GHz

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Page 51 of 72 Report No.: AOC250617001S **A**TTACHMENT # 1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Clause Requirement + Test Result - Remark Verdict The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand-held and body mounted devices, attention is drawn to EN 50360 and EN 50566. 10.6.2 Classification of devices without the capacity to estimate sound dose N/A 10.6.2.1 General N/A This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. For classifying the acoustic output L_{Aeq} , τ , measurements are based on the A-weighted equivalent sound pressure level over a 30 s period. For music where the average sound pressure (long term $L_{Aeq,\tau}$) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, T becomes the duration of the song. NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term $L_{Aeq, T}$) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB. RS1 limits (to be superseded, see 10.6.3.2) 10.6.2.2 N/A RS1 is a class 1 acoustic energy source that does not exceed the following: - for equipment provided as a package (player with its listening device), and with a proprietary 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

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detection, the L_{Aeq} , τ acoustic output shall be \leq 85 dB when playing the fixed "programme simulation

ATTACHMENT # 1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES				
Clause	Requiremen	t + Test	Result - Remark	Verdict
	- for equipm connector (for allows connector) use, the unw 27 mV (analointerface) who simulation no	bed in EN 50332-1. ent provided with a standardized or example, a 3,5 phone jack) that oction to a listening device for gener eighted r.m.s. output voltage shall be ogue interface) or -25 dBFS (digital en playing the fixed "programme bise" described in EN 50332-1. mits will be updated for all devices a	oe ≤	
10.6.2.3	RS2 limits (o be superseded, see 10.6.3.3)		N/A
10.6.2.4	not exceed the for equipments listening of between the the combinate known by oth 130 detection 100 dB(A) which will be simulation not for equipment connector (for allows connector use, the unwents of mV (and interface) when the for equipment of the simulation of	es 2 acoustic energy source that do ne following: ent provided as a package (player valuevice), and with a proprietary conniquer and its listening device, or with ion of player and listening device is ner means such as setting or automa, the LAeq, \(\tau \) acoustic output shall be nen playing the fixed "programme bise" as described in EN 50332-1. ent provided with a standardized or example, a 3,5 phone jack) that action to a listening device for genericity eighted r.m.s. output voltage shall be logue interface) or -10 dBFS (digitate en playing the fixed "programme bise" as described in EN 50332-1.	with ector when atic e ≤ ral oe ≤	N/A
	RS3 is a clas	ss 3 acoustic energy source that 2 limits.		
10.6.3	Classification	on of devices (new)	L	N/A
10.6.3.1	negative and warnings. Ne	ts (10.6.2) created abundant false false positive PMP sound level w limits, compliant with The Decision of 23 June 2009, are give	n	N/A
10.6.3.2	RS1 limits (I RS1 is a class not exceed the for equipments listening of the between the the combinate known by other detection, the	ss 1 acoustic energy source that do	with ector there satic	N/A

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ATTAC	ATTACHMENT # 1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES				
Clause	Requiremen	t + Test	Result - Remark	Verdict	
	- for equipm connector (for allows connectors, the unw 15 mV (analo interface) wh	bed in EN 50332-1. ent provided with a standardized or example, a 3,5 phone jack) that ection to a listening device for general eighted r.m.s. output voltage shall be ≤ ogue interface) or -30 dBFS (digital en playing the fixed "programme bise" described in EN 50332-1.			
10.6.3.3	RS2 limits (N/A	
	not exceed the for equipm its listening of between the the combinate known by oth detection, the described in playing the fit described in for equipm connector (for allows connector, the unwover one were ≤ 15 mV (and interface) which is the service of the serv	as 2 acoustic energy source that does the following: ent provided as a package (player with device), and with a proprietary connector player and its listening device, or where the sion of player and listening device is the means such as setting or automatic the weekly sound exposure level, as EN 50332-3, shall be ≤ 80 dB when sed "programme simulation noise" EN 50332-1. Ent provided with a standardized for example, a 3,5 phone jack) that the elighted r.m.s. output level, integrated the elighted r.m.s. output level, integrated the elighted in EN50332-3, shall be alogue interface) or -30 dBFS (digital en playing the fixed "programme bise" described in EN 50332-1.			
10.6.4	Requiremen	ts for maximum sound exposure		N/A	
10.6.4.1	during tests. Measuremer	ont methods ontrols shall be turned to maximum onts shall be made in accordance with or EN 50332-2 as applicable.		N/A	
10.6.4.2	parts access persons and NOTE 1 Volume Between RS safeguard in that the institute equipme instruction m Alternatively,	ven below, protection requirements for sible to ordinary persons, instructed it skilled persons are given in 4.3. e control is not considered a safeguard. 2 and an ordinary person, the basic may be replaced by an instructional accordance with Clause F.5, except ructional safeguard shall be placed on int, or on the packaging, or in the		N/A	

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Report No.: AOC250617001S **A**TTACHMENT # 1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Clause Requirement + Test Result - Remark Verdict etc.) shall be able to lock any optional settings into a specific configuration. The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc. 10.6.5.2 Dose-based warning and requirements N/A When a dose of 100 % CSD is reached, and at least at every 100 % further increase of CSD, the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically decrease to compliance with class RS1. The warning shall at least clearly indicate that listening above 100 % CSD leads to the risk of hearing damage or loss. 10.6.5.3 **Exposure-based requirements** N/A With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at. The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster. Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface. NOTE In case the source is known not to be music (or test signal), the EL may be disabled.

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Clause	Requiremen	t + Test	Result - Remark	Verdict

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 OA ID I a secretic research of the	
	With 94 dB LAeq acoustic pressure output of the	
	listening device, and with the volume and sound	
	settings in the listening device (for example, built-in	
	volume level control, additional sound features like	
	equalization, etc.) set to the combination of positions	
	that maximize the measured acoustic output, the	
	input voltage of the listening device when playing	
	the fixed "programme simulation noise" as described	
	in EN 50332-1 shall be ≥ 75 mV.	
	NOTE The values of 94 dB and 75 mV correspond with 85 dB	
	and 27 mV or 100 dB and 150 mV.	
10.6.6.2	Corded listening devices with digital input	N/A
		IN/A
	With any playing device playing the fixed	
	"programme simulation noise" described in EN	
	50332-1, and with the volume and sound settings in	
	the listening device (for example, built-in volume	
	level control, additional sound features like	
	equalization, etc.) set to the combination of positions	
	that maximize the measured acoustic output, the	
	LAeq, racoustic output of the listening device shall be	
	≤ 100 dB with an input signal of -10 dBFS.	
10.6.6.3	Cordless listening devices	N/A
	In condition made	
	In cordless mode,	
	with any playing and transmitting device playing the fixed programme simulation poins described in	
	the fixed programme simulation noise described in	
	EN 50332-1; and	
	respecting the cordless transmission standards, where an air interface standard exists that specifies	
	the equivalent acoustic level; and	
	with volume and sound settings in the receiving	
	device (for example, built-in volume level control,	
	additional sound features like equalization, etc.) set	
	to the combination of positions that maximize the	
	measured acoustic output for the above mentioned	
	programme simulation noise, the LAeq, τ acoustic	
	output of the listening device shall be ≤ 100 dB with	
	an input signal of -10 dBFS.	
10.6.6.4	Measurement method	N/A
	Measurements shall be made in accordance with	
	EN 50332-2 as applicable.	
3	Modification to the whole document	Р

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ATTAC	ATTACHMENT # 1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENC		NCES				
Clause	Requirement	t + Test			Result - Rema	ark	Verdict
	Delete all the list:	e "country" notes	s in the refer	rence docume	ent according	to the following	Р
	0.2.1	Note 1 and 2	1	Note 4 and 5	3.3.8.1	Note 2	
	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	
	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	
	5.4.2.3.2. Table 13	4 Note 2	5.4.2.5	Note 2	5.4.5.1	Note	
	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	
	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	
	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and 4 and 5	10.5.3	Note 2	
	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
	Y.4.5	Note					
4	Modification	to Clause 1					Р
1	Add the follo	wing note:					Р
		se of certain substa ment is restricted w					

5	Modification to 4.Z1	
4.Z1	Add the following new subclause after 4.9:	N/A
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains , protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective	

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ATTACH	ATTACHMENT # 1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	e Requirement + Test Result - Remark			
	devices in the building installation; c) it is permitted for pluggable equipment type Epermanently connected equipment, to rely on dedicated overcurrent and short-circuit protection 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 the building installation shall be regarded as providing protection in accordance with the rating the wall socket outlet.	in of		
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.		N/A	
7	Modification to 10.2.1	·	_	
10.2.1	Add the following to c) and d) in table 39: For additional requirements, see 10.5.1.		N/A	

8	Modification to 10.5.1	
10.5.1	Add the following after the first paragraph:	N/A
	For RS 1 compliance is checked by measurement under the following conditions:	
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.	
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.	
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	

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Clause	Requirement + Test		Result - Remark	Verdict
	taking accou	e dose-rate shall not exceed 1 µSv/h nt of the background level. e values appear in Directive 96/29/Euratom of 13		
9	Modification	to G.7.1		_
G.7.1	Add the follo	owing note:		N/A
		narmonized code designations corresponding to be are given in Annex ZD.		

10	Modification to Bibliography	Р
	Add the following notes for the standards indicated:	Р
	IEC 80130-9 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 60864-5. 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 61558-2-6. IEC 61643-1 NOTE Harmonized as EN 61643-1. IEC 61643-21 NOTE Harmonized as EN 61643-21. IEC 61643-311 NOTE Harmonized as EN 61643-311. IEC 61643-331 NOTE Harmonized as EN 61643-321. IEC 61643-331 NOTE Harmonized as EN 61643-331.	
	TEC 61643-331 NOTE Harmonized as EN 61643-331.	
11	ADDITION OF ANNEXES	_
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	
4.1.15	Denmark, Finland, Norway and Sweden To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows:	N/A
	In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."	

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ATTACHMENT # 1 Clause Requirement			U OI 72	Report No.: AO ES AND NATIONAL DIFFER	
			THE INCINC	Result - Remark	Verdict
Clause	· · · · · · · · · · · · · · · · · · ·			Nesuit - Nemaik	verdict
		Laite on liitettävä suojakoske pistorasiaan"	ttimilla		
		pistorasiaari 'Apparatet må tilkoples jordet			
	stikkontakt"	, , , , , , , , , , , , , , , , , , ,			
		"Apparaten skall anslutas till	ordat		
	uttag"				
	T			T	
4.7.3	United King	dom			N/A
	To the end o	f the subclause the following	is added:		
	The torque to	est is performed using a sock	et-outlet		
		ith BS 1363, and the plug pa			
		the relevant clauses of BS 13 3.4.2 of this annex	363. Also		
5.2.2.2	Denmark	5.4.2 Of this affilex			N/A
	A 64 a 11 da 1 a 1 a 1 a 1	l			
	After the 2nd	d paragraph add the following	:		
	A warning (n	narking safeguard) for high to	uch		
		quired if the touch current exc mA a.c. or 10 mA d.c.	eeds the		
5.4.11.1	Finland and	Sweden			N/A
and Annex G	To the end of	of the subclause the following	is added:		
		on of the telecommunication ne following is applicable:	network		
	part of a con	ion is solid, including insulati nponent, it shall at least	on forming		
	consist of eit		وا و او ا		
		s of thin sheet material, each s the electric strength test be			
	at least 0	having a distance through in ,4 mm, which shall pass the eest below.			
	component (distance throinsulation cocompletely ficeepage dispasses the experience)	tion forms part of a semicond e.g. an optocoupler), there is bugh insulation requirement for its insisting of an insulating complete the casing, so that clear stances do not exist, if the coelectric strength test in accordance clause below and in additional end.	no or the cound ances and mponent ance with		
	with an ele by 1,6 (the	tests and inspection criteria ectric strength test of 1,5 kV re electric strength test of 5.4.9 using 1,5 kV),	nultiplied		

Page 61 of 72 Report No.: AOC250617001S **A**TTACHMENT # 1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Clause Requirement + Test Result - Remark Verdict and is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2. A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions: the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11: · the additional testing shall be performed on all the test specimens as described in EN 60384-14; the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14. **Norway** 5.5.2.1 N/A After the 3rd paragraph the following is added: Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V). Finland, Norway and Sweden 5.5.6 N/A To the end of the subclause the following is added: 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. Denmark 5.6.1 N/A Add to the end of the subclause Due to many existing installations where the socketoutlets can be protected with fuses

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with higher rating than the rating of the socket-

equipment type A shall be an integral part of the

In Denmark an existing 13 A socket outlet can be

outlets the protection for pluggable

protected by a 20 A fuse.

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equipment.

Justification:

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Clause	Requirement + Test	Result - Remark	Verdic
Clause	Requirement + Test	Result - Remark	verdic
5.6.4.2.1	Ireland and United Kingdom		N/A
	After the indent for pluggable equipment type A,		
	the following is added:		
	- the protective current rating is taken to be 13 A,		
	this being the largest rating of fuse used in the mains plug.		
5.6.4.2.1	France		N/A
	After the indent for pluggable equipment type A,		
	the following is added: – in certain cases, the protective current rating of		
	the circuit supplied from the mains is taken as 20 A		
	instead of 16 A.		
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.		
5.6.8	Norway		N/A
	To the end of the subclause the following is added:		
	Equipment connected with an earthed mains plug is		
	classified as class I equipment. See the Norway		
	marking requirement in 4.1.15. The symbol IEC		
	60417-6092, as specified in F.3.6.2, is accepted. Denmark		
5.7.6	Defillark		N/A
	To the end of the subclause the following is added:		
	The installation instruction shall be affixed to the		
	equipment if the protective conductor current		
	exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		
5.7.6.2	Denmark		N/A
			',''
	To the end of the subclause the following is added:		
	The warning (marking safeguard) for high touch		
	current is required if the touch current or the		
	protective current exceed the limits of 3,5 mA. Norway and Sweden		N1/A
5.7.7.1	normay and oweden		N/A
	To the end of the subclause the following is added:		
	The core on of the television distribution eveters is	i	ı

The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding

Therefore the protective earthing of the building installation needs to be isolated from the screen of a

It is however accepted to provide the insulation

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system within the building.

cable distribution system.

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Clause	Requirement + Test		Result - Remark	Verdict
	interconnect may be prov	ne equipment by an adapter or an ion cable with galvanic isolator, which ided by a retailer, for example.		
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:			
	the building is connection to connection to and to a tele cable, may in hazard. Con- system there device provide	connected to the protective earthing of installation through the mains or through other apparatus with a protective earthing — vision distribution system using coaxial in some circumstances create a fire nection to a television distribution afore has to be provided through a ding electrical isolation below a certaininge (galvanic isolator, see EN 60728-		
	Sweden, a galv below 5 MHz. T	ry, due to regulation for CATV-installations, and in anic isolator shall provide electrical insulation he insulation shall withstand a dielectric strength 50 Hz or 60 Hz, for 1 min.		
	Translation t be accepted	o Norwegian (the Swedish text will also in Norway):		
	nettplugg og utstyr – og e nett, kan forå For å unngå apparater til	om er koplet til beskyttelsesjord via /eller via annet jordtilkoplet r tilkoplet et koaksialbasert kabel-TV årsake brannfare. dette skal det ved tilkopling av kabel-TV nett installeres en olator mellom apparatet og kabel-TV		
	vägguttag od samtidigt är medfőra risk anslutning av	o Swedish: om är kopplad till skyddsjord via jordat ch/eller via annan utrustning och kopplad till kabel-TV nät kan i vissa fall för brand. För att undvika detta skall vid v apparaten till kabel-TV nät galvanisk s mellan apparaten och kabel-TV		
8.5.4.2.3	United King	dom		N/A
	Add the follo paragraph:	wing after the 2 nd dash bullet in 3 rd		
	requirements	cy stop system complying with the s of IEC 60204-1 and ISO 13850 is ere there is a risk of personal injury.		

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ATTACHMENT # 1 EUROPEAN GROUP DIFFERENCE			CES AND NATIONAL DIFF	FERENCES
Clause	Requirement + Test		Result - Remark	Verdict
B.3.1 and	Ireland and	United Kingdom		N/A
B.4	The followin	g is applicable:		
	circuits in the equipment, B.4 shall be circuit break rated 32A. If tests, suitab	gainst excessive currents and short- e primary circuit of direct plug-in tests according to Annexes B.3.1 and conducted using an external miniature er complying with EN 60898-1, Type B, the equipment does not pass these le 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	
0.40	Denmark	NI/A
G.4.2	Denmark	N/A
	To the end of the subclause the following is added:	
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.	
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	
	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	
	7FF 0F07770F	

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A TTAC	CHMENT # 1 EUROPEAN GROUP DIFFERENCE	S AND NATIONAL DIFFERENCES
Clause	Requirement + Test	Result - Remark Verdict
G.4.2	United Kingdom	N/A
	To the end of the subclause the following is added:	
	The plug part of direct plug-in equipment shall be	
	assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9,	
	12.11, 12.12, 12.13, 12.16, and 12.17, except that	
	the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an	
	Insulated Shutter Opening Device (ISOD), the	
	requirements of clauses 22.2 and 23 also apply.	
G.7.1	United Kingdom	N/A
	To the first paragraph the following is added:	
	Equipment which is fitted with a flexible cable or	
	cord and is designed to be connected to a mains	
	socket conforming to BS 1363 by means of that	
	flexible cable or cord shall be fitted with a 'standard	
	plug' in accordance with the Plugs and Sockets etc.	
	(Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those	
	regulations.	
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	
G.7.1	Ireland	N/A
	To the first paragraph the following is added:	
	Apparatus which is fitted with a flexible cable or cord	
	shall be provided with a plug in accordance with	
	Statutory Instrument 525: 1997, "13 A Plugs and	
	Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a	
	standard of another Member State which is	
	equivalent to the relevant Irish Standard	
3.7.2	Ireland and United Kingdom	N/A
	To the first paragraph the following is added:	
	A power supply cord with a conductor of 1,25 mm ² is	
	allowed for equipment which is rated over 10 A and	
	up to and including 13 A.	
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	
10.5.2	Germany	N/A
	The following requirement applies:	
	For the operation of any cathode ray tube intended for the display of visual images operating at an	

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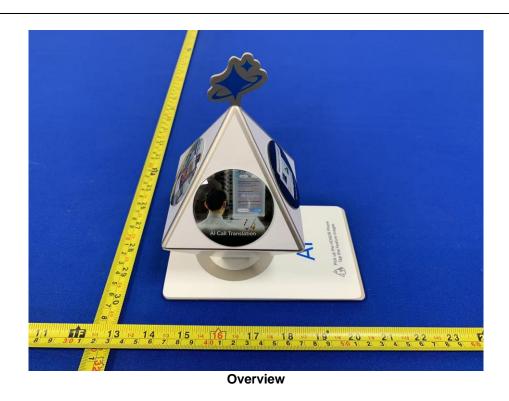
ATTACHMENT # 1		EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES			
Clause	Requiremen	t + Test	Result - Remark	Verdict	
	is required, of approval (Bassard) Justification: German min (Röntgenver)	isterial decree against ionizing radiation ordnung), in force since implementing the European Directive			
	38116 Braunsc	chnische Bundesanstalt, Bundesallee 100, D-			

Type of flexible cord	Code designations		N/A
	IEC	CENELEC	
PVC insulated cords			
Flat twin tinsel cord	60227 IEC 41	H03VH-Y	
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	
Ordinary polyvinyl chloride sheathed flexible cord	80227 IEC 53	H05VV-F H05VVH2-F	
Rubber insulated cords			
Braided cord	60245 IEC 51	H03RT-F	
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
Cords having high flexibility	•	•	
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 RV4-H	
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	
Cords insulated and sheathed with halogen- free thermoplastic compounds			
Light halogen-free thermoplastic insulated and sheathed flexible cords		H03Z1Z1-F H03Z1Z1H2-F	
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F	

Photos



Overview

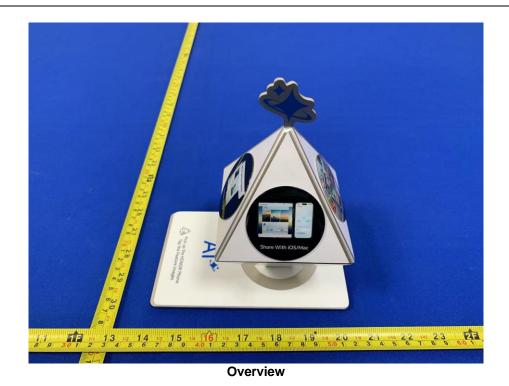


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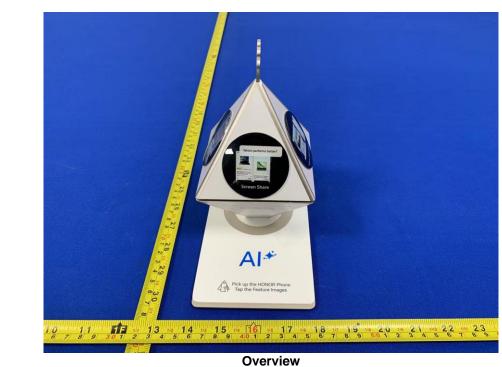


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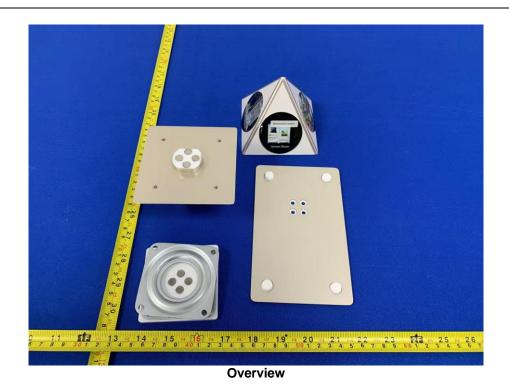


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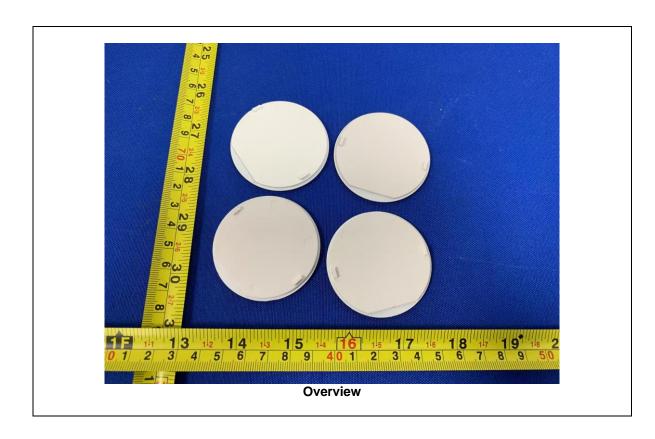


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