

## TEST REPORT IEC 62368-1

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

Report Number. ....: AOC250618010S

 Date of issue ......
 2025-06-23

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 82 pages

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

preparing the Report .....: Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial

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

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

Address .....: Shang Keng Industrial District, Chang Ping Town Dongguan

Guangdong Province, PRC

Test specification:

□ EUROPEAN GROUP DIFFERENCES AND NATIONAL

**DIFFERENCES** 

Test procedure.....: Test report

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

TRF template used .....: IECEE OD-2020-F1:2020, Ed.1.3

**Test Report Form No.....:** IEC 62368\_1E

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

Master TRF .....: Dated 2021-02-04

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Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

		otion materials,Innovative display material,Creative CYN-Innovative props Dual Holder with Strong Mobile Alarm		
rade Mark HONOR				
Manufacturer:	Dongg	uan Excel Jointure Acrylic Prod	ducts LTD.	
	Shang	Keng Industrial District, Chang	g Ping Town Dongguan	
	Guang	dong Province, PRC		
Model/Type reference:	9711A	FHC		
Ratings:	Input:	5V==6A		
	Outpu	t: 5V==6A		
Responsible Testing Laboratory (as a	oplicabl	le), testing procedure and tes	sting location(s):	
		Shenzhen AOCE Electronic T	echnology Service Co., Ltd	
Testing location/ address	:		Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China	
Tested by (name, function, signature)	:	Bill Hu	Zid. Hu	
		Technical Engineer	Fill Hu	
Approved by (name, function, signatu	re) :	Robin Liu	Robin. Lin	
		Technical Manager	1000	
Testing procedure: CTF Stage 1:				
Testing location/ address	:			
Tested by (name, function, signature)	:			
Approved by (name, function, signatu	re) :			
☐ Testing procedure: CTF Stage 2:				
Testing location/ address				
Tested by (name + signature)				
Witnessed by (name, function, signature)				
Approved by (name, function, signatu				
	<u>,                                      </u>			
☐ Testing procedure: CTF Stage 3:				
☐ Testing procedure: CTF Stage 4:				
Testing location/ address	:			
Tested by (name, function, signature)	:			
Witnessed by (name, function, signatu	ıre).:			
Approved by (name, function, signatu	re) :			

Supervised by (name, function, signature):	
List of Attachments (including a total number of p	pages in each attachment):
Attachment No.1: EUROPEAN GROUP DIFFEREN	CES AND NATIONAL DIFFERENCES
Attachment No.2: Photo document.	
Summary of testing:	
- Country of tooming.	
Tests performed (name of test and test clause):	Testing location:
- IEC 62368-1:2018	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
	s (List of countries addressed): EUROPEAN GROUP
DIFFERENCES AND NATIONAL DIFFERENCES.	
□ The product fulfils the requirements of EN IEC	62368-1:2020+A11:2020.

## Copy of marking plate:

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

HONOR

Promotion materials, Innovative display material, Creative props, CYN-Innovative props Dual Holder with Strong Mobile Phone Alarm 9711AFHC

Input: 5V==6A Output: 5V==6A



Manufacturer: Dongguan Excel Jointure Acrylic Products LTD.

Address: Shang Keng Industrial District, Chang Ping Town Dongguan

Guangdong Province, PRC

Made in China

Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

Test item particulars:	
Product group:	
Classification of use by:	☐ Ordinary person ☐ Children likely present
	Instructed person
Supply connection:	<ul><li>Skilled person</li><li>□ AC mains</li><li>□ DC mains</li></ul>
очры соппссион	☐ not mains connected:
	⊠ ES1 □ ES2 □ ES3
Supply tolerance:	+10%/-10%
	+20%/-15%
	☐ + %/- % ☑ None
Supply connection – type:	☐ pluggable equipment type A -
очере, у солисовия подраживания	non-detachable supply cord
	appliance coupler
	☐ direct plug-in
	pluggable equipment type B -
	non-detachable supply cord
	appliance coupler
	<ul><li>□ permanent connection</li><li>□ mating connector</li></ul>
	other: Not directly connected to the mains
Considered current rating of protective device	☐ A;
:	Location:
	N/A
Equipment mobility:	movable hand-held transportable
	☐ direct plug-in ☐ stationary ☐ for building-in ☐ wall/ceiling-mounted ☐ SRME/rack-mounted
	other:
Overvoltage category (OVC):	
Continue of the second of th	OVC IV other: Not directly connected to
	the mains
Class of equipment:	☐ Class I ☐ Class II ☐ Class III
Special installation leastion	<ul><li>Not classified</li><li>N/A</li><li>□ restricted access area</li></ul>
Special installation location:	outdoor location other:
Pollution degree (PD):	□ PD 1 □ PD 2 □ PD 3
Manufacturer's specified T <sub>ma</sub> :	35 °C ☐ Outdoor: minimum °C
IP protection class:	 ⊠ IPX0 □ IP
Power systems:	TN ∏TT ∏IT- VĿL
	☐ not AC mains
Altitude during operation (m):	∑ 2000 m or less ☐ m
Altitude of test laboratory (m):	⊠ 2000 m or less ☐ m
1	

Mass of equipment (kg):	≤7kg
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:	
The tested sample(s) and the sample information at	e provided by the client.
"(See Enclosure #)" refers to additional information	
"(See appended table)" refers to a table appended t	o tne report.  nal Differences and Special National Conditions, if any,
are in the Appendix to the main body of this TRI	
Throughout this report a $\square$ comma / $\boxtimes$ point i	s used as the decimal separator.
The test report only allows to be revised only within regulation was withdrawn or invalid.	n the report defined retention period unless standard or
When determining for test conclusion, measureme	nt uncertainty of tests has been considered.
Manufacturer's Declaration per sub-clause 4.2.5	of IECEE 02:
The application for obtaining a CB Test Certificate	of IECEE 02:
The application for obtaining a CB Test Certificate includes more than one factory location and a	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the	☐ Yes
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	☐ Yes
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)	☐ Yes
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
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  In the General product information section.
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  n the General product information section.  Dongguan Excel Jointure Acrylic Products LTD.
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  In the General product information section.
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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  In the General product information section.  Dongguan Excel Jointure Acrylic Products LTD. Shang Keng Industrial District, Chang Ping Town Dongguan Guangdong Province, PRC  Et display material, Creative props, CYN-Innovative props
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  In the General product information section.  Dongguan Excel Jointure Acrylic Products LTD. Shang Keng Industrial District, Chang Ping Town Dongguan Guangdong Province, PRC  Et display material, Creative props, CYN-Innovative props
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  In the General product information section.  Dongguan Excel Jointure Acrylic Products LTD.  Shang Keng Industrial District, Chang Ping Town Dongguan Guangdong Province, PRC  III  I display material, Creative props, CYN-Innovative props In is used for information technology equipment.

Clause	Possible Hazard				
5	Electrically-caused injury				
Class and Energy Source	Body Part		Safeguards		
(e.g. ES3: Primary circuit)	(e.g. Ordinary)	В	S	R	
ES1: +5Vdc input	Ordinary	N/A	N/A	N/A	
ES1: +3.7Vdc input (battery)	Ordinary	N/A	N/A	N/A	
6	Electrically-caused fire				
Class and Energy Source	Material part		Safeguards		
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 <sup>st</sup> S	2 <sup>nd</sup> S	
PS2	Enclosure	See 6.3	Min. V-0	N/A	
PS2	Battery cell	See 6.3	Min. V-0	N/A	
PS2	РСВ	See 6.3	Min. V-0	N/A	
PS2	Other combustible components / materials	See 6.3	See 6.4.5, 6.4.6	N/A	
7	Injury caused by hazardous	s substances			
Class and Energy Source	Body Part		Safeguards		
(e.g. Ozone)	(e.g., Skilled)	В	S	R	
Lithium-ion polymer	Skilled	See Annex M	N/A	N/A	
8	Mechanically-caused injury	1			
Class and Energy Source	Body Part		Safeguards		
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R	
MS1: Equipment Mass	Ordinary	N/A	N/A	N/A	
MS1: Sharp edges and corners	Ordinary	N/A	N/A	N/A	
9	Thermal burn				
Class and Energy Source	Body Part		Safeguards		
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R	
TS1: All accessible parts	Ordinary	N/A	N/A	N/A	
10	Radiation				
Class and Energy Source	Body Part		Safeguards		
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R	
RS1: LED indicator light	Ordinary	N/A	N/A	N/A	

### **ENERGY SOURCE DIAGRAM**

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

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

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

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

4	GENERAL REQUIREMENTS		
4.1.1	Acceptance of materials, components and subassemblies	(See appended Table 4.1.2.)	Р
4.1.2	Use of components	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)	(See G.15)	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	See below	Р
4.4.3.1	General		Р
4.4.3.2	Steady force tests	(See Clause T.4)	Р
4.4.3.3	Drop tests	(See Clause T.7)	Р
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	(See Clause T.9)	N/A
	Glass impact test (1J)		N/A
	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	(See Clause T.8)	Р
4.4.3.9	Air comprising a safeguard		N/A
4.4.3.10	Accessibility, glass, safeguard effectiveness	All safeguard remains effective	Р
4.4.4	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks	(See Annex K)	N/A
4.5	Explosion		Р
4.5.1	General	(See Annex M for batteries)	Р
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	Р
	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	Fixing of conductors		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	T		
	Fix conductors not to defeat a safeguard		N/A
	Compliance is checked by test:		N/A
4.7	Equipment for direct insertion into mains socket	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	Not such 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 condu	ictive 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 sources		Р
5.2.2	ES1, ES2 and ES3 limits	ES1	Р
5.2.2.2	Steady-state voltage and current limits	+5Vdc input	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		Р

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Clause	Requirement + Test	Result - Remark	Verdict
		•	

5.3	Protection against electrical energy sources	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	N/A
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits	N/A
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

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Clause	Requirement + Test	Result - Remark	Verdict
	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		
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

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, <i>E</i> <sub>P</sub> , <i>K</i> <sub>R</sub> , <i>d</i> , <i>V</i> <sub>PW</sub> (V):		N/A
	Alternative by electric strength test, tested voltage (V), K <sub>R</sub> :		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 (M $\Omega$ ):		N/A
	Electric strength test:		N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard		N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning		N/A
	Relative humidity (%), temperature (°C), duration (h)		_
5.4.9	Electric strength test		N/A
5.4.9.1	Test procedure for type test of solid insulation:		N/A
5.4.9.2	Test procedure for routine test		N/A
5.4.10	Safeguards against transient voltages from external circuits		N/A
5.4.10.1	Parts and circuits separated from external circuits		N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test:		N/A
5.4.10.2.3	Steady-state test:		N/A
5.4.10.3	Verification for insulation breakdown for impulse test		N/A
5.4.11	Separation between external circuits and earth		N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A
	SPDs bridge separation between external circuit and earth		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Poted operating voltage II (//)		
	Rated operating voltage U <sub>op</sub> (V):		
	Nominal voltage U <sub>peak</sub> (V):		_
	Max increase due to variation ΔU <sub>sp</sub> :		
	Max increase due to ageing ΔUsa:		
5.4.11.3	Test method and compliance:		N/A
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid:		N/A
5.4.12.3	Compatibility of an insulating liquid:		N/A
5.4.12.4	Container for insulating liquid:		N/A
5.5	Components as safeguards		N/A
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

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Clause	Requirement + Test Result - Remark	Verdict
	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
5.6.6.2	Test Method:	N/A
5.6.6.3	Resistance ( $\Omega$ ) 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 protective 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

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Clause	Requirement + Test	Result - Remark	Verdict	
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	S	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	(See appended table 6.2.2)	Р
6.2.3	Classification of potential ignition sources	See below.	Р
6.2.3.1	Arcing PIS:		N/A
6.2.3.2	Resistive PIS	All conductors and devices are considered as Resistive PIS.	Р
6.3	Safeguards against fire under normal operating and abnormal operating conditions		Р
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials:	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
	Combustible materials outside fire enclosure:		N/A
6.4	Safeguards against fire under single fault condition	ns	Р
6.4.1	Safeguard method	Method of Control fire spread used.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		Р
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:	(See appended table B.3, B.4)	Р

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Clause	Requirement + Test		Result - Remark	Verdict

	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		Р
6.4.5	Control of fire spread in PS2 circuits		Р
6.4.5.2	Supplementary safeguards	Compliance detailed as follows: - Printed board: rated V-1 or VTM-1 min. class material; Other components other than PCB and wires are: - mounted on PCB rated V-1 or VTM-1 min., or - made of V-2, VTM-2 or HF2 min.	Р
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		Р
6.4.8.2	Fire enclosure and fire barrier material properties	Equipment enclosure was evaluated as a fire enclosure.	Р
6.4.8.2.1	Requirements for a fire barrier	V-0 fire enclosure used.	Р
6.4.8.2.2	Requirements for a fire enclosure	V-0 fire enclosure used.	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		N/A
6.4.8.3.1	Fire enclosure and fire barrier openings		N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top openings and properties	No openings	N/A
	Openings dimensions (mm):		N/A
6.4.8.3.4	Bottom openings and properties		N/A
	Openings dimensions (mm):	No openings	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	No openings	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

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Clause	Clause Requirement + Test Result - Remark		
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:	V-0 fire enclosure used.	Р
6.4.9	Flammability of insulating liquid:		N/A
6.5	Internal and external wiring		Р
6.5.1	General requirements	See below.	Р
6.5.2	Requirements for interconnection to building wiring:	The material of VW-1 on internal wiring were considered compliance equal to equivalent to IEC/TS 60695-11-21 relevant standards.	Р
6.5.3	Internal wiring size (mm²) for socket-outlets:		N/A
6.6	Safeguards against fire due to the connection to	additional equipment	Р

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	
7.2	Reduction of exposure to hazardous substances	
7.3	Ozone exposure	N/A
7.4	Use of personal safeguards or personal protective equipment (PPE)	
	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	Р

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 co	rners	Р
8.4.1	Safeguards		N/A
	Instructional Safeguard		N/A
8.4.2	Sharp edges or corners	Accessible edges and corners of the equipment are rounded and are classified as MS1.	Р
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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

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

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Clause	Requirement + Test	Result - Remark	Verdict
8.10.6	Thermoplastic temperature stability		N/A
	<u> </u>	4 (CDME)	
8.11	Mounting means for slide-rail mounted equipmen	T (SKIVIE)	N/A
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	T.2	P
9.3.1	Touch temperatures of accessible parts:	(See appended table 9.3)	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
		1	

10	RADIATION		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification	See Energy source identification and classification table.	Р
	Lasers:		_

Test method and compliance .....:

Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

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

9.6.3

N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Lamps and lamp systems:	RS1	_
	Image projectors:		
	X-Ray:		
	Personal music player:		
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 LED types)	and lamp systems (including	Р
10.4.1	General requirements	LED indication light: RS1	Р
	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	(See Annex C)	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 <sub>Aeq,T</sub> , 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

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Clause	Requirement + Test	Result - Remark	Verdict	
		<del>,</del>		
10.6.4	Measurement methods		N/A	
10.6.5	Protection of persons		N/A	
	Instructional safeguards:	State in user manual	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	
10.6.6.2	Corded listening devices with digital input		N/A	
	Max. acoustic output L <sub>Aeq,T</sub> , dB(A)		N/A	
10.6.6.3	Cordless listening devices		N/A	
	Max. acoustic output L <sub>Aeq,T</sub> , dB(A)		N/A	

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		
B.1	General		Р
B.1.5	Temperature measurement conditions	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
B.2	Normal operating conditions		Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
	Audio Amplifiers and equipment with audio amplifiers:		N/A
B.2.3	Supply voltage and tolerances		N/A
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		Р
B.3.1	General	(See appended table B.3, B.4)	Р
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	(See appended table B.3, B.4)	Р
B.3.6	Reverse battery polarity		N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3, B.4)	Р

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Clause	Requirement + Test	Result - Remark	Verdict
B.3.8	Safeguards functional during and after abnormal operating conditions:		Р
B.4	Simulated single fault conditions		Р
B.4.1	General		Р
B.4.2	Temperature controlling device		N/A
B.4.3	Blocked motor test		N/A
B.4.4	Functional insulation	(See appended table B.3, B.4)	Р
B.4.4.1	Short circuit of clearances for functional insulation		Р
B.4.4.2	Short circuit of creepage distances for functional insulation		Р
B.4.4.3	Short circuit of functional insulation on coated printed boards		N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors		N/A
B.4.6	Short circuit or disconnection of passive components		Р
B.4.7	Continuous operation of components		N/A
B.4.8	Compliance during and after single fault conditions	(See appended table B.3, B.4)	Р
B.4.9	Battery charging and discharging under single fault conditions	(See Annex M)	Р
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV 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

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Clause	Requirement + Test	Result - Remark	Verdict

E	TEST CONDITIONS FOR EQUIPMENT CONTAININ	NG AUDIO AMPLIFIERS	Р
E.1	Electrical energy source classification for audio signals		Р
	Maximum non-clipped output power (W):	Test maximum volume	
	Rated load impedance (Ω):		
	Open-circuit output voltage (V):		
	Instructional safeguard:		
E.2	Audio amplifier normal operating conditions		Р
	Audio signal source type:		
	Audio output power (W):		
	Audio output voltage (V):		_
	Rated load impedance (Ω):		_
	Requirements for temperature measurement		Р
E.3	Audio amplifier abnormal operating conditions	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
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		N/A
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	See below.	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

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Clause	Requirement + Test	Result - Remark	Verdict
<b>5004</b>	In		
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		N/A
F.3.4	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 0 F 0	Cuitab a seities identification and in a		NI/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
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.	Р
F.4	Instructions		N/A
	a) Information prior to installation and initial use		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	b)  Equipment for use in locations where children not likely to be present		N/A
	c)		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)		N/A
	g) Protective earthing used as a safeguard		N/A
	h) Protective conductor current exceeding ES2 limits		N/A
	a)Graphic symbols used on equipment		N/A
	b)  Permanently connected equipment not provided with all-pole mains switch		N/A
	c)  Replaceable components or modules providing safeguard function		N/A
	d) Equipment containing insulating liquid		N/A
	e)		N/A
F.5	Instructional safeguards		N/A
G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General		N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.1.3	Test method and compliance		N/A
G.2	Relays		N/A
G.2.1	Requirements		N/A
G.2.2	Overload test		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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	1	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
	Test time (days per cycle):		_
	Test temperature (°C):		

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Clause	Requirement + Test	Result - Remark	Verdict
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
<b>G</b> .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, D (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

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Clause	Requirement + Test	Result - Remark	Verdict
G.7.6.2.2	Test with 8 mm strand		N/A
G.8	Varistors		N/A
G.8.1	General requirements		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	1	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	1	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 <sub>ini,a</sub> :		
	Routine test voltage, V <sub>ini, b</sub> :		_
G.13	Printed boards		Р
G.13.1	General requirements		Р
G.13.2	Uncoated printed boards		Р

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Clause	Requirement + Test	Result - Remark	Verdict
G.13.3	Coated printed boards		Р
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
	Number of insulation layers (pcs):		_
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2	Test method and compliance		N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements:	(See Clause G.13)	N/A
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

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Clause	Requirement + Test	Result - Remark	Verdict

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):	
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 WITHOUT INTERLEAVED INSULATION	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 mechanism	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

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Clause	Requirement + Test	Result - Remark	Verdict
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
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
М	EQUIPMENT CONTAINING BATTERIES AND THEIR	R PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		Р
M.2.1	Batteries and their cells comply with relevant IEC standards:	IEC 62133-2: 2017	Р
M.3	Protection circuits for batteries provided within the equipment		Р
M.3.1	Requirements		Р
M.3.2	Test method		Р
	Overcharging of a rechargeable battery	(See appended table M.3)	Р
	Excessive discharging	(See appended table M.3)	Р
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
M.3.3	Compliance	(See appended table M.3)	Р
M.4	Additional safeguards for equipment containing a battery	a portable secondary lithium	Р
M.4.1	General		Р
M.4.2	Charging safeguards		Р
M.4.2.1	Requirements		Р
M.4.2.2	Compliance	(See appended table M.4.2)	Р
M.4.3	Fire enclosure:	V-0	Р
M.4.4	Drop test of equipment containing a secondary lithium battery		Р
M.4.4.2	Preparation and procedure for the drop test		Р
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	<5%	Р
M.4.4.4	Check of the charge/discharge function		Р
M.4.4.5	Charge / discharge cycle test		Р
M.4.4.6	Compliance		Р
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		Р
M.6.1	External and internal faults		Р
M.6.2	Compliance	Has been conducted on the battery as part of compliance with IEC 62133-2.	Р
M.7	Risk of explosion from lead acid and NiCd batter	ies	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 (m <sup>3</sup> /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

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Clause	Requirement + Test	Result - Remark	Verdict
	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 with aqueous electrolyte	spark sources of batteries	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 $V_Z$ (m³/s):		_
M.8.2.3	Correction factors:		_
M.8.2.4	Calculation of distance d (mm):		_
M.9	Preventing electrolyte spillage	1	N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse		Р
	Instructional safeguard:	Stated in user manual.	Р
N	ELECTROCHEMICAL POTENTIALS		N/A
	Material(s) used:		
0	MEASUREMENT OF CREEPAGE DISTANCES AND	CLEARANCES	N/A
	Value of X (mm):		
P	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		N/A
P.1	General		N/A
P.2	Safeguards against entry or consequences of ent	ry 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

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Clause	Requirement + Test Result - Remark	Verdict
	T	N1/A
	Transportable equipment with metalized plastic parts	N/A
P.2.3.2	Consequence of entry test:	N/A
P.3	Safeguards against spillage of internal liquids	N/A
P.3.1	General	N/A
P.3.2	Determination of spillage consequences	N/A
P.3.3	Spillage safeguards	N/A
P.3.4	Compliance	N/A
P.4	Metallized coatings and adhesives securing parts	N/A
P.4.1	General	N/A
P.4.2	Tests	N/A
	Conditioning, T <sub>C</sub> (°C):	_
	Duration (weeks)	_
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRIN	I <b>G</b> P
Q.1	Limited power sources	Р
Q.1.1	Requirements	Р
	a) Inherently limited output	N/A
	b) Impedance limited output	N/A
	c) Regulating network limited output	Р
	d) Overcurrent protective device limited output	N/A
	e) IC current limiter complying with G.9	N/A
Q.1.2	Test method and compliance:	Р
	Current rating of overcurrent protective device (A)	N/A
Q.2	Test for external circuits – paired conductor cable	N/A
	Maximum output current (A):	N/A
	Current limiting method:	_
R	LIMITED SHORT CIRCUIT TEST	N/A
R.1	General	N/A
R.2	Test setup	N/A
	Overcurrent protective device for test:	
R.3	Test method	N/A

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Clause	Requirement + Test	Result - Remark	Verdict			
	Ta					
	Cord/cable used for test:		_			
R.4	Compliance		N/A			
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A			
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W					
	Samples, material:					
	Wall thickness (mm):					
	Conditioning (°C)		_			
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A			
	- Material not consumed completely		N/A			
	- Material extinguishes within 30s		N/A			
	- No burning of layer or wrapping tissue		N/A			
S.2	Flammability test for fire enclosure and fire barrier	· integrity	N/A			
	Samples, material:		_			
	Wall thickness (mm):					
	Conditioning (°C):					
S.3	Flammability test for the bottom of a fire enclosure	•	N/A			
S.3.1	Mounting of samples		N/A			
S.3.2	Test method and compliance		N/A			
	Mounting of samples:					
	Wall thickness (mm):					
S.4	Flammability classification of materials		N/A			
S.5	Flammability test for fire enclosures and fire barrie where the steady state power exceeding 4 000 W	er materials of equipment	N/A			
	Samples, material:					
	Wall thickness (mm):					
	Conditioning (°C):		_			
Т	MECHANICAL STRENGTH TESTS		Р			
T.1	General		Р			
T.2	Steady force test, 10 N:	(See appended table T.2)	Р			
T.3	Steady force test, 30 N:		N/A			
T.4	Steady force test, 100 N:	(See appended table T.4)	Р			

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Clause	Requirement + Test	Result - Remark	Verdict		
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:	(See appended table T.7)	Р		
T.8	Stress relief test:	(See appended table T.8)	Р		
T.9	Glass Impact Test:		N/A		
T.10	Glass fragmentation test				
	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				
U.1	General		N/A		
	Instructional safeguard :		N/A		
U.2	Test method and compliance for non-intrinsically	protected CRTs	N/A		
U.3	Protective screen		N/A		
٧	DETERMINATION OF ACCESSIBLE PARTS		Р		
V.1	Accessible parts of equipment		Р		
V.1.1	General	Following the probes test specified in this annex Figure V.1, V.2, V.5 are suitable.	Р		
V.1.2	Surfaces and openings tested with jointed test probes		Р		
V.1.3	Openings tested with straight unjointed test probes	No openings	N/A		
V.1.4	Plugs, jacks, connectors tested with blunt probe		Р		
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 CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)				
	Clearance:	(See appended table X)	N/A		

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Clause	Requirement + Test	Result - Remark	Verdict		

Υ	CONSTRUCTION REQUIREMENTS FOR OUTDOOR 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 enclosure	N/A
Y.5.1	General	N/A
Y.5.2	Protection from moisture	N/A
	Relevant tests of IEC 60529 or Y.5.3:	N/A
Y.5.3	Water spray test	N/A
Y.5.4	Protection from plants and vermin	N/A
Y.5.5	Protection from excessive dust	N/A
Y.5.5.1	General	N/A
Y.5.5.2	IP5X equipment	N/A
Y.5.5.3	IP6X equipment	N/A
Y.6	Mechanical strength of enclosures	N/A
Y.6.1	General	N/A
Y.6.2	Impact test:	N/A

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Clau	use	Requirement + Test		Result - Remark	Verdict

5.2	TABLE: Classification of electrical energy sources						
Supply Voltage	Location (e.g. Test conditions Parameters circuit					ES Class	
Vollage	designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	- Class
		Normal					ES1
5VDC	Input Connectors	abnormal - see table B.3					(declar ed)
		single fault - see table B.4					
		Normal	4.19Vdc				ES1
Fully cells	Internal battery	abnormal - see table B.3	4.19Vdc				
		single fault - see table B.4	4.19Vdc				

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 Comm (Hz)			
Supplementary information: N/A							

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

5.4.1.10.3	.10.3 TABLE: Ball pressure test of thermoplastics						
Allowed imp	Allowed impression diameter (mm) ≤ 2 mm					_	
Object/Part No./Material		Manufacturer/trademark	Thickness	(mm)	Test temperature (°C)		ression eter (mm)

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Clause	Requirement + Test	Result - Remark	Verdict		

Supplementary information: N/A

5.4.2, 5.4.3	TABLE: Minimum Clearances/Creepage distance							N/A	
Clearance (cl) and creepage distance (cr) at/of/between:		U <sub>p</sub> (V)	U <sub>rms</sub> (V)	Freq 1) (Hz)	Required cl (mm)	cl (mm)	E.S. <sup>2)</sup> (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	ABLE: Minimum distance through insulation							
Distance through insulation (DTI) at/of		Peak voltage (V)	Insulation			sured DTI (mm)			
Supplement	Supplementary information: N/A								

5.4.4.9	TABLE: Solid in	ABLE: Solid insulation at frequencies >30 kHz						
Insulation material		<b>E</b> P	Frequency (kHz)	<b>K</b> <sub>R</sub>	Thickness d (mm)	Insulation	V <sub>PW</sub> (Vpk)	
Supplementary information: N/A								

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

5.5.2.2	TABLE:	Stored discharge or	n capacitors			N/A			
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	ES Class			
Supplement	Supplementary information:								

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				IEC 623	368-1					
Clause	Requir	ement + Test				Resu	ılt - Remark			Verdict
bleeding										
5.6.6	5.6.6 TABLE: Resistance of protective conductors and terminations								N/A	
Location				Test current (A)	Durati (min			ge drop (V)	R	esistance (Ω)
Supplement	tary inforr	nation: N/A								
E 7.4	TABLE			aible nert-						NI/A
5.7.4 Location	TABLE: Unearthed access Operating and			Supply			Parameters			N/A ES
fault conditions			Voltage (V)	Voltage Current (V <sub>rms</sub> or V <sub>pk</sub> ) (A <sub>rms</sub> or A		nt Freq.		class		
						. ,				
Supplement Abbreviatio	-	mation: hort circuit; OC	= op	pen circuit						
5.7.5	TABLE	: Earthed acc	essi	ble conductive	part					N/A
Supply volta	age (V)		.:							
Phase(s)			.:	[] Single Phase; [] Three Phase: [] Delta [] Wye					_	
Power Distr	ibution S	ystem	.:	□ TN □	] TT [	IT				_
Location				Fault Condition 60990 clause 6		Tot	uch current (mA)		Comm	nent
Supplemen	tary Infor	mation: N/A								
	T=451=									N//0
5.8 Location	IABLE	Supply		uard in battery l	-	÷		To	ıoh	N/A ES Class
voltage (V)			Ор	perating and fault Time (s condition		Open-circuit voltage (V)		Touch current (A)		ES Class
								-	-	
Supplementary information: Abbreviation: SC= short circuit, OC= open circuit										

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Clause	Requirement + Test	Result - Remark	Verdict

6.2.2	TABLE: Power source	ABLE: Power source circuit classifications							
Location	Operating and fault condition	Voltage (V) Current (A)		Max. Power <sup>1)</sup> (W)	Time (S)	PS class			
Battery pack Cell		4.19	3.25	5.74	3	PS1			

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

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

8.5.5	TABLE: High pre	ssure lamp				N/A			
Lamp manufacturer		Lamp type	Explosion method	Longest axis of glass particle (mm)	bey	icle found ond 1 m es / No			
Supplementa	Supplementary information: N/A								

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Clause	Requirement + Test	Result - Remark	Verdict

9.6	TABLE:	Temperat	mperature measurements for wireless power transmitters							
Supply volta	ge (V)			:					_	
Max. transm	Max. transmit power of transmitter (W):							_		
					ceiver and contact	with receiver and at distance of 2 mm		with receiver and at distance of 5 mm		
Foreign ol	ojects	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)	
Supplementa	Supplementary information: N/A									

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Tempe	rature mea	sureme	ents					Р
Supply volta	ge (V)		:	5V Normal working			-	_	
Ambient tem	Ambient temperature during test $T_{amb}$ (°C):				25.0	35.0			_
Maximum m	Maximum measured temperature <i>T</i> of part/at:					Т (	°C)		Allowed T <sub>max</sub> (°C)
PCB near U1					34.8	44.8			130
PCB near U	2				36.9	46.9			130
EC1 Body					32.9	42.9			105
Battery surfa	ace				31.4	41.4			
Plastic enclo	sure near battery	, inside			30.6	40.6			80
Plastic enclo	sure near battery	, outside			29.3				48
Plastic enclo	sure near Output	outside			29.8				48
Internal wiring					29.1	39.1			80
Temperature T of winding: $t_1$ (°C) $R_1$ ( $\Omega$			2)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class	

Supplementary information:

The test results have been considered to Ambient 25°C

B.2.5	T.	ABLE: Ir	put test						Р
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/st	atus

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Clause		Requirem	ent + Test				Result - Rem	ark	Verdict		
5Vdc		5.99	6	29.95				Normal working,	Max load		
Supplen	nenta	ry informa	tion:								
Fauipme	ent m	av be have	e rated curr	ent or rate	ed power or be	oth Both	should be m	easured			

B.3, B.4 TA	ABLE: Abnormal	operating a	and fault o	condition te	n tests P			
Ambient tempe	rature T <sub>amb</sub> (°C)			:	25°C	if not specified	_	
Power source f	or EUT: Manufactu	ırer, model/	type, outp	utrating:				
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observatio	n	
D4	SC	5Vdc	10mins			Unit shut down imn		
U2 pin 2-7	SC	5Vdc	10mins			Unit shut down imn		
EC1	SC	5Vdc	10mins			Unit shut down imn		
Sperkers	SC	5Vdc	10mins			Unit normal working damage no hazard		
USB Output	OL	5Vdc	4h51mi ns			The unit operated ufault condition and thermal equilibrium hazard, No damage Max. load current 6 protect when USB overloaded with 6.5	ran for . No e. 5.5A, Unit output 55A, No	
USB Output	SC	5Vdc	10mins			Unit shut down imn no damage no haza	nediately,	
U2 pin 1 to 5 S	C over charging	5Vdc	7h			Empty battery charg 7hours No emission and chemical leaks		
U2 pin 1 to 5 S	over discharging	3.7Vdc	7h			Empty battery discharge 7hours No emission and chemical leaks		
Supplementary	information: N/A		•					

M.3	TABLE: Pro	BLE: Protection circuits for batteries provided within the equipment					
Is it possible t	it possible to install the battery in a reverse polarity position?:						
Equipment S	uipment Specification Charging						

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Clause	Requirement + Test	Result - Remark	Verdict

			Vo	oltage (V)					Current (A)		
				5Vdc					3A		
					Battery	spec	cification	on			
		Non-recharge	Rechargeable batteries								
		Discharging	_	ntentional	(	Char	ging		Discharging	Revers	
Manufactu	urer/type	current (A)		harging irrent (A)	Voltage (V) Cu		Curr	ent (A)	current (A)	chargin current (	
Battery pack (Normal condition)					4.19		0.	034	0.009		
Battery pack	(Fault						0.039		0.011		
condition)					4.19		(U1 pin 2-4 SC)		(U1 pin 2-4 SC)		
Note: The test	ts of M.3.2 ar	e applicable only when above appropriate dat					ta is n	ot availa	able.		
Specified batt	ery temperat	ure (°C)				ge:0-45 ge -20-60	_				
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent (A)	Voltag (V)	e Observation		
Battery pack	U2 pin 1 to 5 SC	to over charging		7h	42.9	0.	039	4.19	for 7hours emission, e	Empty battery charged for 7hours No emission, explosion and chemical leaks	
Battery pack	Battery pack U2 pin 1 to ov		ing	7h	38.3	0.	011 4.19		Empty battery discharged for 7hour No emission, explosion and chemical leaks		rs

Supplementary information:

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

	TABLE: battery	Charging saf	feguards for	equipment c	ontaining a s	secondary lithium	Р	
Maximum specified charging voltage (V) : 4.2								
Maximum sp	Maximum specified charging current (A) : 0.07A							
Highest spec	ified cha	rging temperat	ure (°C)		1	45	_	
Lowest speci	ified char	ging temperatu	ıre (°C)			0	_	
Battery	Operating Measurement Observation							
manufacturer	r/type	and fault condition	Charging	Charging	Temp.			

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		voltage (V)	current (A)	(°C)	
Battery pack (charge mode)	HSCT	4.19	0	45.0	Stop charging when the battery temperature reaches 45.0°C
Battery pack (charge mode)	LSCT	4.19	0	0	Stop charging when the battery temperature reaches 0°C

Supplementary information:

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

<sup>\*</sup> The total voltage or current when all cells are in series and parallel.

Q.1	TABLE: Circuits inte	ended for inte	rconnectio	n with build	ling wiring	(LPS)	Р
Output	Condition	11 (\)()	Time (a)	I <sub>sc</sub> (A)		S (VA)	
Circuit	Condition	U <sub>oc</sub> (V)	Time (s)	Meas.	Limit	Meas.	Limit
USB output	Normal	5.08	60	6.5	8	30.58	100
OSB Julpul	U1 pin 2-7 SC	5.08	60	6.5	8	30.58	100

T.2, T.3, T.4, T.5	TABLE	E: Steady force test					Р	
Part/Location	า	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observation	
Internal p	arts			V.2	10	5	No hazard	
Top enclo	sure	Plastic	Min 1.5		100	5	No damaged	
Side enclo	sure	Plastic	Min 1.5		100	5	No damaged	
Bottom enc	losure	Plastic	Min 1.5		100	5	No damaged	
Supplementary information: N/A								

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

T.7 TABLE: Drop test	Р
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Clause	Requirement + Test		Result - Remark	Verdict	

Location/part	Material	Thickness (mm)	Height (mm)	Observation	
Top enclosure	Plastic	Min 1.5	1000	No hazard	
Side enclosure	Plastic	Min 1.5	1000	No hazard	
Bottom enclosure	Plastic	Min 1.5	1000	No hazard	
Supplementary information: N/A					

T.8	TABLE	ΓABLE: Stress relief test					Р
Location/Par	t	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	vation
Completed sample		Plastic	Min 1.5	70	7	No dama hazardous cannot be	live parts
Supplementary information: N/A							

Х	TABLE: Alternative method for determining minimum clearances distances						
Clearance distanced between:		Peak of working voltage (V)	Required cl (mm)	Measure (mm)			
Supplementa	Supplementary information: N/A						

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Clause	Requirement + Test	Result - Remark	Verdict		

4.1.2 T	ABLE: Critical compo	onents information	on			Р
Object / part No.	Manufacturer / trademark	Type / model	Type / model Technical data		Mark(	
PCB	SHENZHEN DINYE ELECTRONIC CO LTD	DY-07	V-0, 130 °C	UL 94	UL E3	40369
Plastic enclosure	CHI MEI CORPORATION	PA-765A	V-1, 80 °C, Min. thickness: 1.5 mm	UL 94 UL 746C UL E56070		6070
Internal wire	Interchangeable	Interchangeable	Min. VW-1, 80 °C	UL 758	UL	
Speaker	Interchangeable	Interchangeable	8ohm, Max 1W	IEC/EN 62368-1	Tested applia	d with in nce
Li-ion Polymer Battery	Dongguan Excel Jointure Acrylic Products LTD.	501012	41mAh, 3.7V, 0.15Wh.	IEC/EN 62133-2	CE	
AC/DC Adapter	Shenzhen Dongfengsheng Technology Co., Ltd.	F036WB- 050600C	Input: 100- 240V~, 50/60Hz, 1.2A Output: DC 5V, 6A	IEC/EN 62368-1	CE	
-Plug	Shenzhen Dongfengsheng Technology Co., Ltd.	F036WB- 050600C	Input: 100- 240V~, 50/60Hz, 1.2A Output: DC 5V, 6A	EN 50075	CE	

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<sup>&</sup>lt;sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-2039.

<sup>&</sup>lt;sup>2)</sup> Description line content is optional. Main line description needs to clearly detail the component used for testing.

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Clause	Requ	uirement + Test		Result - Remark	Verdict	

### ATTACHMENT TO TEST REPORT

### IEC 62368-1

### **EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES**

(AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT - PART 1: SAFETY REQUIREMENTS)

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

Attachment Form No. .....: EU\_GD\_IEC62368\_1E

Attachment Originator....:: UL(Demko)

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

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	CENELEC COMMON MODIFICATIONS (EN)	Р	
	Clause numbers in the cells that are shaded light grey are clause references in EN IEC 62368-1:2020+A11:2020. All other clause numbers in that column, except for those in the paragraph below, refers to IEC 62368-1:2018.		
	Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62368-1:2018 are prefixed "Z".		
	Add the following annexes:		
	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.	N/A	
3.3.19	Sound exposure Replace 3.3.19 of IEC 62368-1 with the following definitions:	N/A	
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.		

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

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A personal music player is a portable equipment intended for use by an **ordinary person**, that:

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

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

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

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

NOTE 2 It is the intention of the Committee to allow the alternative methods for now, but to only use the dose measurement method as given in 10.6.5 in future. Therefore, manufacturers are encouraged to implement 10.6.5 as soon as possible.

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

These requirements are valid for music or video mode only.

The requirements do not apply to:

professional equipment;

NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.

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

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	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.	
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	N/A
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body mounted devices, attention is drawn to EN 50360 and EN 50566.	
10.6.2	Classification of devices without the capacity to estimate sound do	ose 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 $L_{Aeq,T}$ , 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 $L_{Aeq,7}$ ) which is	

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Clause	Requ	irement + Test		Result - Remark	Verdict

	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.	
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)	N/A
	RS1 is a class 1 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the LAeq, τ acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.  — The RS1 limits will be updated for all devices as per 10.6.3.2.	
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3)	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN 50332-1.	

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10.6.2.4	RS3 limits	N/A
	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.	
10.6.3	Classification of devices (new)	N/A
10.6.3.1	General	N/A
	Previous limits (10.6.2) created abundant false negative and false positive PMP sound level warnings. New limits, compliant with The Commission Decision of 23 June 2009, are given below.	IWA
10.6.3.2	RS1 limits (new)	N/A
	RS1 is a class 1 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>T</i> acoustic output shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	
10.6.3.3	RS2 limits (new)	N/A
	RS2 is a class 2 acoustic energy source that does not exceed the following:  — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the weekly sound exposure level, as described in EN 50332-3, shall be ≤ 80 dB when playing the fixed "programme simulation noise" described in EN 50332-1.  — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general	

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	use, the unweighted r.m.s. output level, integrated over one week, as described in EN50332-3, shall be ≤ 15 mV (analogue interface) or -30 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1.	
10.6.4	Requirements for maximum sound exposure	N/A
10.6.4.1	Measurement methods	N/A
	All volume controls shall be turned to maximum during tests.	
	Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable.	
10.6.4.2	Protection of persons	N/A
	Except as given below, protection requirements for parts accessible to ordinary persons, instructed persons and skilled persons are given in 4.3.	
	NOTE 1 Volume control is not considered a safeguard.	
	Between RS2 and an <b>ordinary person</b> , the <b>basic safeguard</b> may be replaced by an <b>instructional safeguard</b> in accordance with Clause F.5, except that the <b>instructional safeguard</b> shall be placed on the equipment, or on the packaging, or in the instruction manual.  Alternatively, the <b>instructional safeguard</b> may be given through the equipment display during use.	
	The elements of the <b>instructional safeguard</b> shall be as follows:  - element 1a: the symbol IEC 60417-6044 (2011-01)	
	<ul><li>– element 2: "High sound pressure" or equivalent wording</li><li>– element 3: "Hearing damage risk" or equivalent</li></ul>	
	wording  – element 4: "Do not listen at high volume levels for long periods." or equivalent wording	
	An equipment safeguard shall prevent exposure of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off.	

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	The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.	
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.	
	NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off.	
	A <b>skilled person</b> shall not be unintentionally exposed to RS3.	
10.6.5	Requirements for dose-based systems	N/A
10.6.5.1	General requirements	N/A
	Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause.  The manufacturer may offer optional settings to allow the users to modify when and how they wish	
	to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such	
	optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific 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

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	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
10101010	Exposure based requirements		IN/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.		
	term sound lever 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.		
	raster.		
	Test of El functionality is conducted according to		
	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 cope the course is known not to be music (or test		
	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.		
L	joighall, the EE may be disabled.	<u>l</u>	1

10.6.6	Requirements for listening devices (headphones, earphones, etc.)			
10.6.6.1	Corded listening devices with analogue input			
	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			

Attachment No.1			EU_GD_IEC62368_10	C - ATTACHMENT	
Clause	Requ	irement + Test		Result - Remark	Verdict

the fixed programme s EN 50332-1; and  - respecting the cordle where an air interface the equivalent acoustic  - with volume and sou device (for example, b additional sound featur to the combination of p measured acoustic out programme simulation output of the listening of an input signal of -10 of  Measurement method	I settings in the receiving t-in volume level control, so like equalization, etc.) set sitions that maximize the ut for the above mentioned bise, the LAeq, ⊤acoustic vice shall be ≤ 100 dB with FS.  N/A
<ul> <li>with any playing and the fixed programme set 50332-1; and</li> <li>respecting the cordle where an air interface the equivalent acoustic with volume and sour device (for example, be additional sound feature to the combination of personal programme simulation output of the listening on an input signal of -10 certains</li> </ul>	ulation noise described in  stransmission standards, andard exists that specifies evel; and I settings in the receiving t-in volume level control, s like equalization, etc.) set sitions that maximize the at for the above mentioned bise, the LAeq, racoustic vice shall be ≤ 100 dB with FS.
<ul> <li>with any playing and the fixed programme set 50332-1; and</li> <li>respecting the cordle where an air interface the equivalent acoustic with volume and sour device (for example, be additional sound feature to the combination of personal programme simulation output of the listening on an input signal of -10 certains</li> </ul>	ulation noise described in  stransmission standards, andard exists that specifies evel; and I settings in the receiving t-in volume level control, s like equalization, etc.) set sitions that maximize the at for the above mentioned bise, the LAeq, racoustic vice shall be ≤ 100 dB with FS.
mV.  NOTE The values of 94 dB and 27 mV or 100 dB and 19  10.6.6.2 Corded listening device "programme simulation 50332-1, and with the the listening device (for level control, additional equalization, etc.) set to positions that maximiz output, the LAeq, racouton and the same properties of the sam	rogramme simulation N 50332-1 shall be ≥ 75  175 mV correspond with 85 dB mV.  Pes with digital input  Colaying the fixed Poise described in EN Ilume and sound settings in Pexample, built-in volume Pound features like Ithe combination of The measured acoustic The coutput of the listening The with an input signal of -10

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Clause	Requ	uirement + Test		Result - Remark	Verdict

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	.4 Note 2	5.4.2.5	Note 2	5.4.5.1	Note
Table 13					
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				
Modificatio	n to Clause 1	1			
Add the foll					

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5	Modification to 4.Z1	N/A
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 devices in the building installation;	
	c) it is permitted for pluggable equipment type B	
	or permanently connected equipment, to rely on	
	dedicated overcurrent and short-circuit protection	
	in the building installation, provided that the means	
	of protection, e.g. fuses or circuit breakers, is fully	
	specified in the installation instructions.	
	If reliance is placed on protection in the building	
	installation, the installation instructions shall so	
	state, except that for pluggable equipment type	
	A the building installation shall be regarded as	
	providing protection in accordance with the rating	
	of the wall socket outlet.	
6	Modification to 5.4.2.3.2.4	N/A
5.4.2.3.2.4	Add the following to the end of this subclause:	N/A
	The appringer and for interesting with contamed	
	The requirement for interconnection with <b>external</b>	
7	circuit is in addition given in EN 50491-3:2009.	
7	Modification to 10.2.1	N/A
10.2.1	Add the following to c) and d) in table 39:	N/A
	For additional requirements, see 10.5.1.	
	i or additional regulierite, see 10.5.1.	

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Clause	Requ	uirement + Test		Result - Remark	Verdict

8	Modification to 10.5.1	N/A
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 cm <sup>2</sup> , at any point 10 cm from the outer surface of the apparatus.	
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.	
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	
9	Modification to G.7.1	N/A
G.7.1	Add the following note:	N/A
	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	

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10	Modification to Bibliography				
	Add the following notes for the standards indicated:	Р			
	IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as HD 60269-2. IEC 60309-1 NOTE Harmonized as EN 60309-1. IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series. IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.				
	IEC 60664-5 NOTE Harmonized as EN 60664-5.  IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified).  IEC 61508-1 NOTE Harmonized as EN 61508-1.  IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1.				
	IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4. IEC 61558-2-6 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.				
11	IEC 61643-321 NOTE Harmonized as EN 61643-321. IEC 61643-331 NOTE Harmonized as EN 61643-331.  ADDITION OF ANNEXES	N/A			
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	N/A			

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4.1.15	Denmark, Finland, Norway and Sweden	N
	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:	
	In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord." In <b>Finland</b> : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In <b>Norway</b> : "Apparatet må tilkoples jordet stikkontakt"	
	In <b>Sweden</b> : "Apparaten skall anslutas till jordat uttag"	

4.7.3	United Kingdom	N/A
	To the end of the subclause the following is added:	
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex	
5.2.2.2	Denmark	N/A
	After the 2nd paragraph add the following:	
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	
5.4.11.1	Finland and Sweden	N/A
and Annex G	To the end of the subclause the following is added:	
	For separation of the telecommunication network from earth the following is applicable:	
	If this insulation is solid, including insulation forming	

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part of a component, it shall at least consist of either

- two layers of thin sheet material, each of which shall pass the electric strength test below, or
- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.

If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition

 passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),

and

 is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV.

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

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	sequence of tests as described in EN 60384-14.	
5.5.2.1	Norway	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).	
5.5.6	Finland, Norway and Sweden	N/A
	To the end of the subclause the following is added:	
	Resistors used as <b>basic safeguard</b> or bridging	
	basic insulation in class I pluggable equipment	
	<b>type A</b> shall comply with G.10.1 and the test of G.10.2.	
5.6.1	Denmark	N/A
	Add to the end of the subclause	
	Due to many existing installations where the	
	socket-outlets can be protected with fuses	
	with higher rating than the rating of the socket-	
	outlets the protection for pluggable equipment type A shall be an integral part of the	
	equipment.	
	Justification:	
	In Denmark an existing 13 A socket outlet can be	
	protected by a 20 A fuse.	
5.6.4.2.1	Ireland and United Kingdom	N/A
	After the indent for <b>pluggable equipment type A</b> ,	
	the following is added:	
	- the <b>protective current rating</b> is taken to be 13 A,	
	this being the largest rating of fuse used in the	
	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 <b>protective current rating</b> 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
5.6.5. I	1.5 m. 5 5 5 5 5 m. paragraph the following to added.	IN/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 <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.	

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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 <b>class I equipment</b> . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	
5.7.6	Denmark	N/A
	To the end of the subclause the following is added:	
	The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> 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.	
5.7.7.1	Norway and Sweden	N/A
	To the end of the subclause the following is added:	
	The screen of the television distribution system is	
	normally not earthed at the entrance of the building	
	and there is normally no equipotential bonding	
	system within the building.	
	Therefore the protective earthing of the building	
	installation needs to be isolated from the screen of	
	a cable distribution system.	
	a sazio distrizzation system.	
	It is however accepted to provide the insulation	
	external to the equipment by an adapter or an	
	interconnection cable with galvanic isolator, which	
	may be provided by a retailer, for example.	
	The user manual shall then have the following or	
	similar information in Norwegian and Swedish	
	language respectively, depending on in what	
	country the equipment is intended to be used in:	
	"Apparatus connected to the protective earthing of	
	the building installation through the mains	
	connection or through other apparatus with a	
	connection to protective earthing –	
	and to a television distribution system using coaxial	
	cable, may in some circumstances create a fire	
	hazard. Connection to a television distribution	

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	system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"	
	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	
	Translation to Swedish: "Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".	
8.5.4.2.3	United Kingdom	N/A
	Add the following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> paragraph:	
	An emergency stop system complying with the requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.	

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B.3.1 and	Ireland and United Kingdom	N/A
B.4	The following is applicable:	
	To protect against excessive currents and short-circuits in the primary circuit of <b>direct plug-in equipment</b> , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the <b>direct plug-in equipment</b> , until the requirements of Annexes B.3.1 and B.4 are met	

# Denmark G.4.2 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

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Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-

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	5a or DK 1-7a		
	Justification:		
	Heavy Current Regulations, Section 6c		
G.4.2	United Kingdom	N1/A	
G.4.2	omed ranguom	N/A	
	To the end of the subclause the following is added:		ļ
	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:		ļ
	- · · · · · · · · · · · · · · · · · · ·		
	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		
G.7.2	Ireland and United Kingdom	N/A	
	To the first paragraph the following is added:		ļ
	A power supply cord with a conductor of 1,25 mm <sup>2</sup>		
	is allowed for equipment which is rated over 10 A		
	and up to and including 13 A.		

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Clause	Requ	uirement + Test		Result - Remark	Verdict

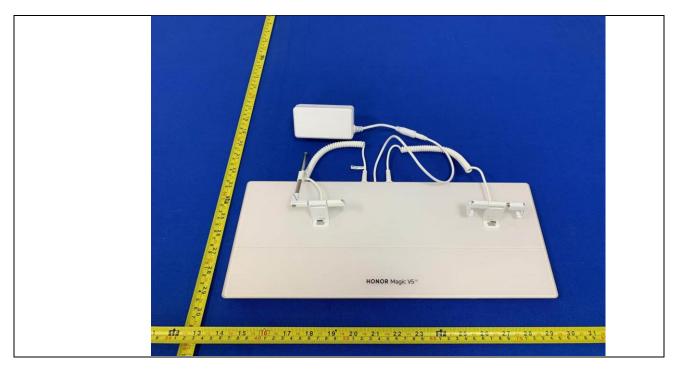
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	N/A
10.5.2	Germany	N/A
	The following requirement applies:	
	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung)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

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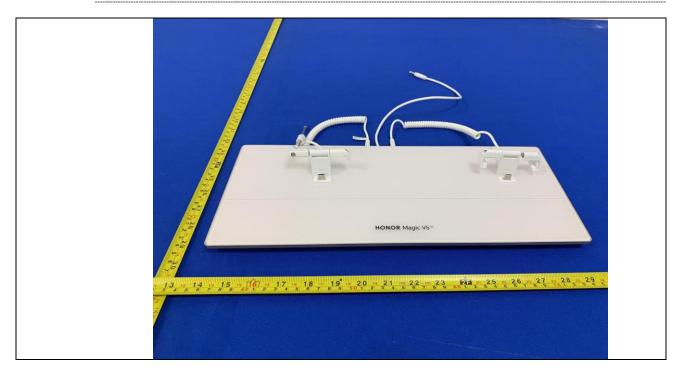
IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS (EN)				
Type of flexible cord	Code designations		N/A	
	IEC	CENELEC		
PVC insulated cords				
Flat twin tinsel cord	60227 IEC 41	H03VH-Y		
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F		
Ordinary polyvinyl chloride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

### **Product Photos**

Details of: Overview for model 9711AFHC



Details of: Overview for model 9711AFHC



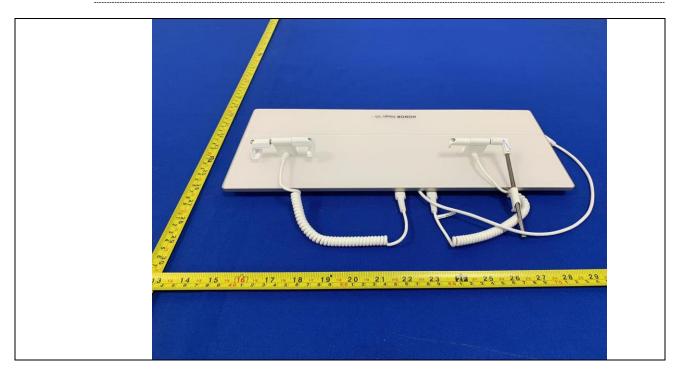
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### **Product Photos**

Details of: Overview for model 9711AFHC



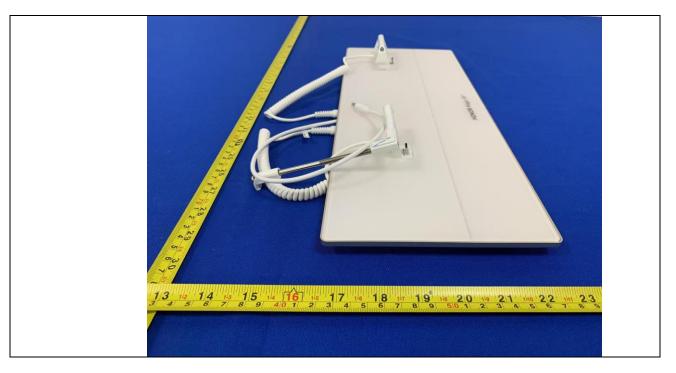
Details of: Overview for model 9711AFHC



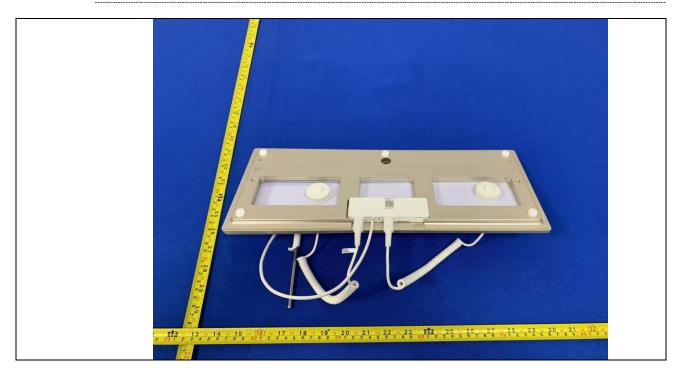
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Details of: Overview for model 9711AFHC



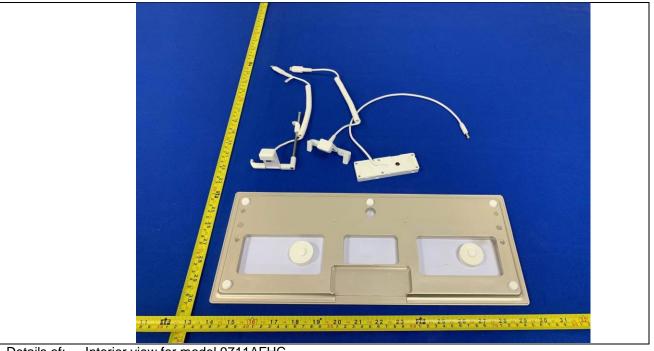
Details of: Overview for model 9711AFHC



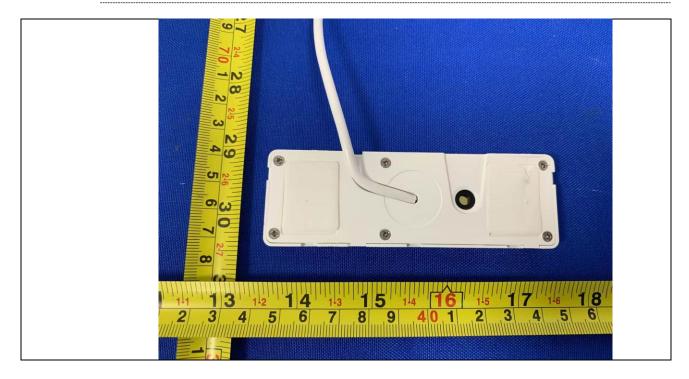
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### **Product Photos**

Details of: Interior view for model 9711AFHC



Interior view for model 9711AFHC Details of:



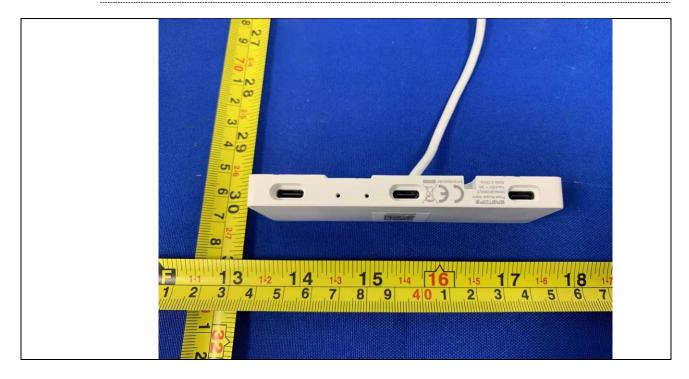
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### **Product Photos**

Details of: Interior view for model 9711AFHC



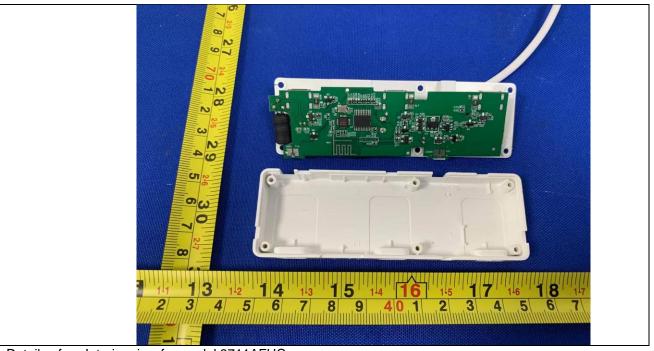
Details of: Interior view for model 9711AFHC



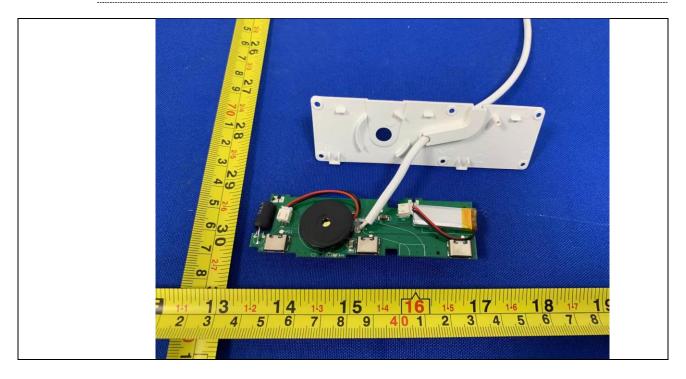
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### **Product Photos**

Details of: Interior view for model 9711AFHC



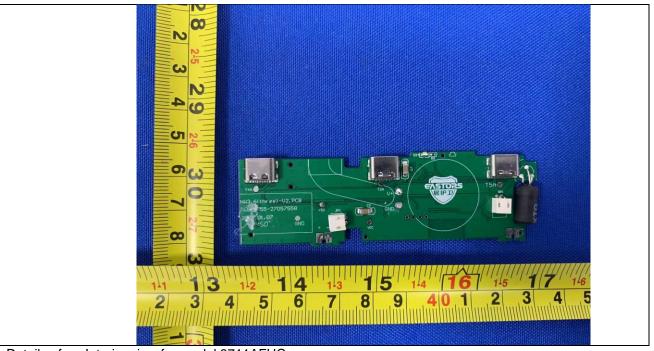
Details of: Interior view for model 9711AFHC



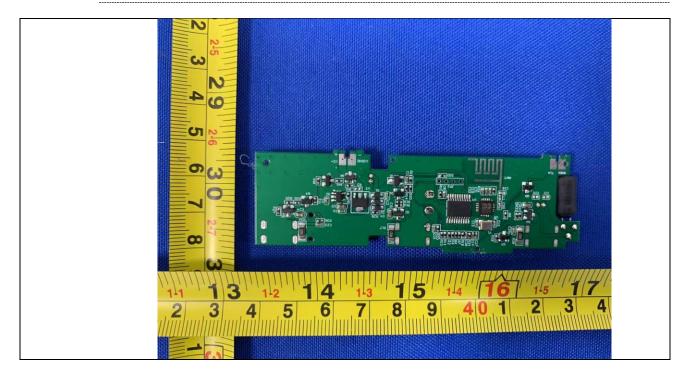
Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

### **Product Photos**

Details of: Interior view for model 9711AFHC



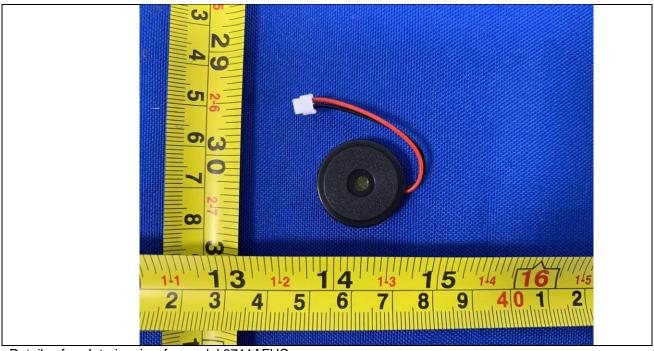
Details of: Interior view for model 9711AFHC



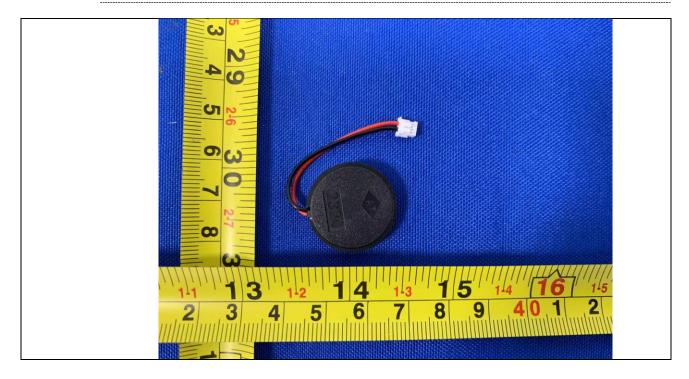
Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

### **Product Photos**

Details of: Interior view for model 9711AFHC



Details of: Interior view for model 9711AFHC



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### **Product Photos**

Details of: Interior view for model 9711AFHC



Details of: Adapter view for model 9711AFHC



- End of report -

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