

TEST REPORT IEC 62368-1

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

Report Number.: AOC251106012S

 Date of issue
 2025-11-12

 Total number of pages
 79 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.....: Shenzhen Yifan Tong Technology Co., Ltd

Address: 506/5F, Bld-A, Quanju Industry Park, No.21, Jiangshi Rd,

Guangming Dist, Shenzhen, China.

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

Test item description:	Car Ch	narger	
Trade Mark:	N/A		
Manufacturer:	506/5F	hen Yifan Tong Technology Co F, Bld-A, Quanju Industry Park, Iming Dist, Shenzhen, China.	
Model/Type reference:	YFTAC	C08-35W, CW-CHA064PD-BK,	PROCAR199
Ratings:	Input: DC 12-24V, 4A USB-C Output: DC 5V/3A, 9V/3A, 12V/2.92A, 15V/2.33A, 20V/1.75A (35W) USB-A Output: DC 5V/3A, 9V/2A, 12V/1.5A (18W) USB-C+USB-A: DC 5V/3A Max Total output: 35W Max		
Responsible Testing Laboratory (as ap	plicabl	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 Technical Engineer	Bill Hu Robin. Lin
Approved by (name, function, signatur	e):	Robin Liu Technical Manager	Robin. Lin
Testing procedure: CTF Stage 1:			
Testing location/ address	:		
Tested by (name, function, signature) .	:		
Approved by (name, function, signatur	e) :		
Taction procedures CTF Stone 2			
Testing procedure: CTF Stage 2:			
Testing location/ address			
Tested by (name + signature) Witnessed by (name, function, signature)			
Approved by (name, function, signatur			
Approved by (liame, function, signatur	~,		
Testing procedure: CTF Stage 3:			
Testing procedure: CTF Stage 4:			
Testing location/ address	:		
Tested by (name, function, signature) .	:		

Witnessed by (name, function, signature).:		
Approved by (name, function, signature):		
Supervised by (name, function, signature) :		
List of Attachments (including a total number of p	ages in each attachmen	t):
Attachment No.1: National deviation		
Attachment No.2: Photo document.		
Summary of tooting.		
Summary of testing:		
Tests performed (name of test and test clause):	Testing location:	
Tests performed (name of test and test clause): - IEC 62368-1:2018		onic Technology Service Co.,
,		onic Technology Service Co.,
,	Shenzhen AOCE Electro Ltd Room 202, 2nd Floor, No	o.12th Building of Xinhe
,	Shenzhen AOCE Electro Ltd Room 202, 2nd Floor, No Tongfuyu Industrial Park	o.12th Building of Xinhe , Fuhai Street, Baoan District,
,	Shenzhen AOCE Electro Ltd Room 202, 2nd Floor, No	o.12th Building of Xinhe , Fuhai Street, Baoan District,
,	Shenzhen AOCE Electro Ltd Room 202, 2nd Floor, No Tongfuyu Industrial Park	o.12th Building of Xinhe , Fuhai Street, Baoan District,
,	Shenzhen AOCE Electro Ltd Room 202, 2nd Floor, No Tongfuyu Industrial Park	o.12th Building of Xinhe , Fuhai Street, Baoan District,
- IEC 62368-1:2018	Shenzhen AOCE Electro Ltd Room 202, 2nd Floor, No Tongfuyu Industrial Park Shenzhen, Guangdong,	o.12th Building of Xinhe , Fuhai Street, Baoan District, China
,	Shenzhen AOCE Electro Ltd Room 202, 2nd Floor, No Tongfuyu Industrial Park Shenzhen, Guangdong,	o.12th Building of Xinhe , Fuhai Street, Baoan District, China
- IEC 62368-1:2018 Summary of compliance with National Differences DIFFERENCES AND NATIONAL DIFFERENCES.	Shenzhen AOCE Electro Ltd Room 202, 2nd Floor, No Tongfuyu Industrial Park Shenzhen, Guangdong,	o.12th Building of Xinhe , Fuhai Street, Baoan District, China essed): EUROPEAN GROUP
- IEC 62368-1:2018 Summary of compliance with National Differences	Shenzhen AOCE Electro Ltd Room 202, 2nd Floor, No Tongfuyu Industrial Park Shenzhen, Guangdong,	o.12th Building of Xinhe , Fuhai Street, Baoan District, China essed): EUROPEAN GROUP
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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.

Car Charger YFTAC08-35W

Input: DC 12-24V, 4A

USB-C Output: DC 5V/3A, 9V/3A, 12V/2.92A, 15V/2.33A, 20V/1.75A

(35W)

USB-A Output: DC 5V/3A, 9V/2A, 12V/1.5A (18W)

USB-C+USB-A: DC 5V/3A Max

Total output: 35W Max



Manufacturer: Shenzhen Yifan Tong Technology Co., Ltd

Made in China

Notes:

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	Skilled person□ AC mains□ DC mains
Supply connection:	not mains connected:
	⊠ ES1 □ ES2 □ ES3
Supply tolerance:	<u>+10%/-10%</u>
	+20%/-15%
	None
Supply connection – type:	pluggable equipment type A -
	☐ non-detachable supply cord☐ appliance coupler
	direct plug-in
	pluggable equipment type B -
	non-detachable supply cord
	appliance coupler
	permanent connection
	mating connector
Considered current reting of protective device	☑ other: Not directly connected to the mains☐ A;
Considered current rating of protective device	Location: building equipment
	N/A
Equipment mobility:	☐ movable ☐ hand-held ☐ transportable
	direct plug-in stationary sfor building-in
	wall/ceiling-mounted SRME/rack-mounted
Overweltene actorion (OVC)	☐ other: ☐ OVC II ☐ OVC III
Overvoltage category (OVC)::	
	other: Not Directly Connected To The Mains
Class of equipment:	☐ Class II ☐ Class III
	☐ Not classified ☐ other:
Special installation location:	N/A ☐ restricted access area
	outdoor location
Pollution degree (PD):	☐ other: ☐ PD 1 ☐ PD 3
Manufacturer's specified T _{ma} :	25 °C Outdoor: minimum°C
IP protection class:	☐ IP
Power systems:	TN TT TT VL-L
Altitude during energtics: (m)	☐ not AC mains
Altitude during operation (m):	∑ 2000 m or less

Altitude of test laboratory (m):	
Mass of equipment (kg):	Approx. 0.01 kg
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:	2025-10-10
Date (s) of performance of tests:	2025-10-10 to 2025-11-06
General remarks:	
The tested sample(s) and the sample information ar	e provided by the client.
"(See Enclosure #)" refers to additional information "(See appended table)" refers to a table appended to Note: EN Group Differences together with Nation are in the Appendix to the main body of this TRF Throughout this report a ☐ comma / ☒ point is	o the report. nal Differences and Special National Conditions, if any,
The test report only allows to be revised only withir regulation was withdrawn or invalid.	the report defined retention period unless standard or
When determining for test conclusion, measurement	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 includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes ☐ Not applicable
When differences exist; they shall be identified i	n the General product information section.
Name and address of factory (ies)::	Shenzhen Yifan Tong Technology Co., Ltd 506/5F, Bld-A, Quanju Industry Park, No.21, Jiangshi Rd, Guangming Dist, Shenzhen, China.
General product information and other remarks	:
1. This product is a Car charger which is used for in	nformation technology equipment.
2. Maximum ambient temperature is 25°C.	
3. All models are same except for the model name.	
4. All tests were performed on the model YFTAC08	3-35W.
5. All output ports are in accordance with the PS2	

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: +12-24Vdc input	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire	Electrically-caused fire		
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S
PS2	Enclosure	See 6.3	Min.V-0	N/A
PS2	PCB	See 6.3	Min.V-0	N/A
PS2	Internal wiring	See 6.3	See 6.5	N/A
PS2	Other combustible components / materials	See 6.3	See 6.4.5, 6.4.6	N/A
7	Injury caused by hazardous	Injury caused by hazardous substances		
Class and Energy Source	Body Part	Safeguards		
(e.g. Ozone)	(e.g., Skilled)	В	S	R
N/A	N/A	N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source	Body Part		Safeguards	
(e.g. MS3: Plastic fan blades)	(e.g. Ordinary)	В	S	R
MS1: Equipment Mass	Ordinary	N/A	N/A	N/A
MS1: 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	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment. See also Annex G	Р
4.1.3	Equipment design and construction	Evaluation of safeguards regarding access to ES3 and to limiting the outputs to fulfill ES1, and protection in regard to risk of spread of fire, mechanical-caused injury and thermal burn considered.	Р
4.1.4	Specified ambient temperature for outdoor use (°C)		N/A
4.1.5	Constructions and components not specifically covered		N/A
4.1.8	Liquids and liquid filled components (LFC)		N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness		Р
4.4.3.1	General		Р
4.4.3.2	Steady force tests	(See Clause T.5)	Р
4.4.3.3	Drop tests		N/A
4.4.3.4	Impact tests	(See Clause T.6)	Р
4.4.3.5	Internal accessible safeguard tests		N/A
4.4.3.6	Glass impact tests		N/A
4.4.3.7	Glass fixation tests		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

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.4.4	Displacement of a safeguard by an insulating liquid		N/A
4.4.5	Safety interlocks		N/A
4.5	Explosion		Р
4.5.1		No explosion observed during normal / abnormal / single fault conditions.	Р
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	Р
	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	4.6 Fixing of conductors		N/A
	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-c	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 conduct	ive object	N/A
4.10	Component requirements		N/A
4.10.1	Disconnect Device		N/A
4.10.2	Switches and relays		N/A

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

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:	12-24Vdc 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		N/A
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

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

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material		N/A
	Number of layers (pcs):		N/A
5.4.4.6.3	Non-separable thin sheet material		N/A
	Number of layers (pcs):		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:		N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E _P , K _R , d, V _{PW} (V):		N/A
	Alternative by electric strength test, tested voltage (V), K _R :		N/A
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
5.4.5.3	Insulation resistance (MΩ):		N/A
	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	No such external circuits.	N/A
5.4.10.1	Parts and circuits separated from external circuits		N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test:		N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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	No connection to external circuits with transient voltage.	N/A
5.4.11.2	Requirements		N/A
	SPDs bridge separation between external circuit and earth		N/A
	Rated operating voltage U _{op} (V):		_
	Nominal voltage U _{peak} (V):		
	Max increase due to variation ΔU _{sp} :		
	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

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

	RCD rated residual operating current (mA):	_
5.6	Protective conductor	N/A
5.6.2	Requirement for protective conductors Class III equipment	N/A
5.6.2.1	General requirements	N/A
5.6.2.2	Colour of insulation	N/A
5.6.3	Requirement for protective earthing conductors	N/A
	Protective earthing conductor size (mm²):	
	Protective earthing conductor serving as a reinforced safeguard	N/A
	Protective earthing conductor serving as a double safeguard	N/A
5.6.4	Requirements for protective bonding conductors	N/A
5.6.4.1	Protective bonding conductors	N/A
	Protective bonding conductor size (mm²):	_
5.6.4.2	Protective current rating (A):	N/A
5.6.5	Terminals for protective conductors	N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm):	N/A
	Terminal size for connecting protective bonding conductors (mm)	N/A
5.6.5.2	Corrosion	N/A
5.6.6	Resistance of the protective bonding system	N/A
5.6.6.1	Requirements	N/A
5.6.6.2	Test Method:	N/A
5.6.6.3	Resistance (Ω) or voltage drop:	N/A
5.6.7	Reliable connection of a protective earthing conductor	N/A
5.6.8	Functional earthing	N/A
	Conductor size (mm²):	N/A
	Class II with functional earthing marking:	N/A
	Appliance inlet cl & cr (mm):	N/A
5.7	Prospective touch voltage, touch current and protective conductor current	N/A
5.7.2	Measuring devices and networks	N/A
5.7.2.1	Measurement of touch current	N/A

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Clause	Requirement + Test	Result - Remark	Verdict		
5.7.2.2	Measurement of voltage		N/A		
5.7.3	Equipment set-up, supply connections and earth connections		N/A		
5.7.4	Unearthed accessible parts:		N/A		
5.7.5	Earthed accessible conductive parts:		N/A		
5.7.6	Requirements when touch current exceeds ES2 limits		N/A		
	Protective conductor current (mA):		N/A		
	Instructional Safeguard:		N/A		
5.7.7	Prospective touch voltage and touch current associated with external circuits		N/A		
5.7.7.1	Touch current from coaxial cables		N/A		
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables		N/A		
5.7.8	Summation of touch currents from external circuits		N/A		
	a) Equipment connected to earthed external circuits, current (mA):		N/A		
	b) Equipment connected to unearthed external circuits, current (mA):		N/A		
5.8	Backfeed safeguard in battery backed up supplies	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:	V-0	N/A

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

6.4	Safeguards against fire under single fault conditio	ns	Р
6.4.1	Safeguard method	Method of Control fire spread is used.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions ::		N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits	See below	Р
6.4.5.2	Supplementary safeguards	All component in PS2 and PS3 is mounted on V-0 Class material of printed boards and comply with the requirements of the relevant IEC components standard, see appended table 4.1.2 and annex G.	Р
6.4.6	Control of fire spread in PS3 circuits		N/A
6.4.7	Separation of combustible materials from a PIS	All circuitry and component are considered as PIS. External enclosure material is V-0 class material, see appended table 4.1.2	Р
6.4.7.2	Separation by distance	All component and part comply with these requirements.	Р
6.4.7.3	Separation by a fire barrier		N/A
6.4.8	Fire enclosures and fire barriers	PS2	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	No openings	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings		N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top openings and properties		N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
			1
	Openings dimensions (mm)		N/A
6.4.8.3.4	Bottom openings and properties		N/A
	Openings dimensions (mm):		N/A
	Flammability tests for the bottom of a fire enclosure		N/A
	Instructional Safeguard:		N/A
6.4.8.3.5	Side openings and properties		N/A
	Openings dimensions (mm):		N/A
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c):		N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:	Fire enclosure is made of V-0 material.	Р
6.4.9	Flammability of insulating liquid		N/A
6.5	Internal and external wiring		N/A
6.5.1	General requirements		N/A
6.5.2	Requirements for interconnection to building wiring		N/A
6.5.3	Internal wiring size (mm²) for socket-outlets:		N/A
6.6	Safeguards against fire due to the connection to	additional equipment	Р

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

8	MECHANICALLY-CAUSED INJURY	
8.2 Mechanical energy source classifications		Р
8.3	3 Safeguards against mechanical energy sources	
8.4	Safeguards against parts with sharp edges and corners	
8.4.1	Safeguards	N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	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.	P
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts		N/A
	MS2 or MS3 part required to be accessible for the function of the equipment		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

	IEC 62368-1	T	,
Clause	Requirement + Test	Result - Remark	Verdict
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	-1	N/A
8.6.1	General		N/A
	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

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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):		
8.10.6	Thermoplastic temperature stability		N/A
8.11	Mounting means for slide-rail mounted equipment	(SRME)	N/A
8.11.1	General		N/A
8.11.2	Requirements for slide rails		N/A
	Instructional Safeguard:		N/A
8.11.3	Mechanical strength test		N/A
8.11.3.1	Downward force test, force (N) applied:		N/A
8.11.3.2	Lateral push force test		N/A
8.11.3.3	Integrity of slide rail end stops		N/A
8.11.4	Compliance		N/A
8.12	Telescoping or rod antennas		N/A
	Button/ball diameter (mm)		_
9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits		Р
9.3.1	Touch temperatures of accessible parts	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
9.3.2	Test method and compliance		Р
9.4	Safeguards against thermal energy sources		Р
9.5	Requirements for safeguards		Р
9.5.1	Equipment safeguard		Р
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

	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
9.6.3	Test method and compliance:	(See appended table 9.6)	N/A	

10	RADIATION		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification	LED indication light: RS1	Р
	Lasers:		_
	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	The luminance of LED indicator light is far less than 10000cd/m2. With reference to subclause 4.1 of IEC 62471: 2006 no further test is necessary.	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:		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

	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	Acoustic output L _{Aeq,T} , dB(A)		N/A	
	Unweighted RMS output voltage (mV):		N/A	
	Digital output signal (dBFS):		N/A	
10.6.3	Requirements for dose-based systems		N/A	
10.6.3.1	General requirements		N/A	
10.6.3.2	Dose-based warning and automatic decrease		N/A	
10.6.3.3	Exposure-based warning and requirements		N/A	
	30 s integrated exposure level (MEL30)		N/A	
	Warning for MEL ≥ 100 dB(A)		N/A	
10.6.4	Measurement methods		N/A	
10.6.5	Protection of persons		N/A	
	Instructional safeguards:	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 _{Aeq,T} , dB(A)		N/A	
10.6.6.3	Cordless listening devices		N/A	
	Max. acoustic output L _{Aeq,T} , dB(A)		N/A	

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Р
B.1	General	General	
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions	•	Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
	Audio Amplifiers and equipment with audio amplifiers:		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

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
	Instructional safeguard:	TS1	N/A
B.3.3	DC mains polarity test	The equipment is not connected to a D.C. mains.	N/A
B.3.4	Setting of voltage selector	No voltage selector	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3, B.4)	Р
B.3.6	Reverse battery polarity	No batteries	N/A
B.3.7	Audio amplifier abnormal operating conditions	No audio amplifier	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions:	All safeguards remained effective.	Р
B.4	Simulated single fault conditions		Р
B.4.1	General		Р
B.4.2	Temperature controlling device	No such devices.	N/A
B.4.3	Blocked motor test	No motor used.	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	(See appended table B.3, B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.3, B.4)	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed boards	N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.3, B.4)	Р
B.4.6	Short circuit or disconnection of passive components	(See appended table B.3, B.4)	Р
B.4.7	Continuous operation of components	The equipment is continuous operating type and no such components intended for short time operation or intermittent operation.	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		N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radi	ation	N/A
C.1.2	Requirements		N/A
C.1.3	Test method		N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS	•	N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAININ	IG AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio s	signals	N/A
	Maximum non-clipped output power (W):		_
	Rated load impedance (Ω):		_
	Open-circuit output voltage (V):		_
	Instructional safeguard:		_
E.2	Audio amplifier normal operating conditions	1	N/A
	Audio signal source type:		_
	Audio output power (W):		_
	Audio output voltage (V):		_
	Rated load impedance (Ω):		
	Requirements for temperature measurement		N/A
E.3	Audio amplifier abnormal operating conditions		N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND II SAFEGUARDS	NSTRUCTIONAL	Р
F.1	General		Р
	Language:	English. Versions in other languages will be provided when national certificate approval.	_
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1	Letter symbols for quantities and units are complied with IEC 60027-1.	Р

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
F.2.2	Graphic symbols according to IEC, ISO or manufacturer specific	Graphical symbols are complied with IEC 60417, ISO 3864-2, ISO 7000 or ISO 7010.	Р
F.3	Equipment markings		Р
F.3.1	Equipment marking locations	The equipment marking is located on the surface and is easily visible.	Р
F.3.2	Equipment identification markings	See below.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	Р
F.3.2.2	Model identification:	See copy of marking plate	Р
F.3.3	Equipment rating markings		Р
F.3.3.1	Equipment with direct connection to mains		N/A
F.3.3.2	Equipment without direct connection to mains		Р
F.3.3.3	Nature of the supply voltage:	See copy of marking plate	Р
F.3.3.4	Rated voltage:	See copy of marking plate	Р
F.3.3.5	Rated frequency:		N/A
F.3.3.6	Rated current or rated power:	See copy of marking plate	Р
F.3.3.7	Equipment with multiple supply connections	Only one connection.	N/A
F.3.4	Voltage setting device	No voltage setting device.	N/A
F.3.5	Terminals and operating devices		Р
F.3.5.1	Mains appliance outlet and socket-outlet markings		N/A
F.3.5.2	Switch position identification marking:		N/A
F.3.5.3	Replacement fuse identification and rating markings	The fuse marking is marked on PCB near Fuse: F1: 32 Vdc, 5 A	Р
	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

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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:	II AU	N/A
F.3.9	Durability, legibility and permanence of marking	All markings required are easily discernible under normal lighting conditions.	P
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		Р
	a) Information prior to installation and initial use	Relevant safety caution texts and installation instruction are available	Р
	b) Equipment for use in locations where children not likely to be present		N/A
	c)	Relevant safety caution texts and installation instruction are available.	Р
	d) Equipment intended for use only in restricted access area		N/A
	e) Equipment intended to be fastened in place		N/A
	f) Instructions for audio equipment terminals		N/A
	g) Protective earthing used as a safeguard		N/A
	h) Protective conductor current exceeding ES2 limits		N/A
	a)Graphic symbols used on equipment		N/A
	b) Permanently connected equipment not provided with all-pole mains switch		N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	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	No switches	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
G.2.3	Relay controlling connectors supplying power to other equipment		N/A
G.2.4	Test method and compliance		N/A
G.3	Protective devices		N/A
G.3.1	Thermal cut-offs		N/A
	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Test method and compliance		N/A
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics		N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors		N/A
G.3.4	Overcurrent protection devices		N/A
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4		N/A

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

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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
G.5.4.6.2	Tested in the unit		N/A
	Maximum Temperature:		N/A
G.5.4.6.3	Alternative method		N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
	Operating voltage:		_
G.6	Wire Insulation		N/A
G.6.1	General		N/A
G.6.2	Enamelled winding wire insulation		N/A
G.7	Mains supply cords	•	N/A
G.7.1	General requirements		N/A
	Туре:		_
G.7.2	Cross sectional area (mm² or AWG):		N/A
G.7.3	Cord anchorages and strain relief for non-detachable power supply cords		N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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
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		N/A
G.9.1	Requirements		N/A
	IC limiter output current (max. 5A):		_
	Manufacturers' defined drift:		_
G.9.2	Test Program		N/A
G.9.3	Compliance		N/A
G.10	Resistors		N/A
G.10.1	General		N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
G.10.2	Conditioning		N/A
G.10.3	Resistor test		N/A
G.10.4	Voltage surge test		N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units		N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers	,	N/A
	Optocouplers comply with IEC 60747-5-5 with specifics		N/A
	Type test voltage V _{ini,a} :		_
	Routine test voltage, V _{ini, b} :		_
G.13	Printed boards		Р
G.13.1	General requirements		Р
G.13.2	Uncoated printed boards		Р
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
G.13.5	Insulation between conductors on different surfaces		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

	IEC 62368-1	
Clause	Requirement + Test Result - Remark	Verdict
G.15.2.3	Tubing and fittings compatibility test	N/A
G.15.2.4	Vibration test	N/A
G.15.2.5	Thermal cycling test	N/A
G.15.2.6	Force test	N/A
G.15.3	Compliance	N/A
G.16	IC including capacitor discharge function (ICX)	N/A
G.16.1	Condition for fault tested is not required	N/A
	ICX with associated circuitry tested in equipment	N/A
	ICX tested separately	N/A
G.16.2	Tests	N/A
	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:	_
	Mains voltage that impulses to be superimposed on:	_
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:	_
G.16.3	Capacitor discharge test:	N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	N/A
H.1	General	N/A
H.2	Method A	N/A
H.3	Method B	
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	
J.1	General	N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Winding wire insulation:		
			N1/A
	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 mecha	nism	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
K.5.1	Under single fault condition		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Test method and compliance:		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements		N/A
	In circuit connected to mains, separation distance for contact gaps (mm):		N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):		N/A
	Electric strength test before and after the test of K.7.2:		N/A
K.7.2	Overload test, Current (A):		N/A
K.7.3	Endurance test		N/A
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

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
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 THEI	R PROTECTION CIRCUITS	N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Batteries and their cells comply with relevant IEC standards:		N/A
M.3	Protection circuits for batteries provided within the equipment		N/A
M.3.1	Requirements		N/A
M.3.2	Test method		N/A
	Overcharging of a rechargeable battery		N/A
	Excessive discharging		N/A
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A
M.3.3	Compliance		N/A
M.4	Additional safeguards for equipment containing a portable secondary lithium battery		N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Requirements		N/A
M.4.2.2	Compliance ::		N/A
M.4.3	Fire enclosure:		N/A
M.4.4	Drop test of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation and procedure for the drop test		N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::		N/A
M.4.4.4	Check of the charge/discharge function		N/A
M.4.4.5	Charge / discharge cycle test		N/A
M.4.4.6	Compliance		N/A
M.5	Risk of burn due to short-circuit during carrying		N/A

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
M.5.1	Requirement		N/A
M.5.2	Test method and compliance		N/A
M.6	Safeguards against short-circuits		N/A
M.6.1	External and internal faults		N/A
M.6.2	Compliance		N/A
M.7	Risk of explosion from lead acid and NiCd 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 ³ /h):		N/A
M.7.3	Ventilation tests		N/A
M.7.3.1	General		N/A
M.7.3.2	Ventilation test – alternative 1		N/A
	Hydrogen gas concentration (%):		N/A
M.7.3.3	Ventilation test – alternative 2		N/A
	Obtained hydrogen generation rate:		N/A
M.7.3.4	Ventilation test – alternative 3		N/A
	Hydrogen gas concentration (%):		N/A
M.7.4	Marking:		N/A
M.8	Protection against internal ignition from external spark sources of batteries with aqueous electrolyte		N/A
M.8.1	General		N/A
M.8.2	Test method		N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m³/s):		
M.8.2.3	Correction factors:		_
M.8.2.4	Calculation of distance d (mm):		
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse		N/A
	Instructional safeguard:		N/A

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

N	ELECTROCHEMICAL POTENTIALS	N/A
	Material(s) used:	_
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	N/A
	Value of <i>X</i> (mm):	
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS	N/A
P.1	General	N/A
P.2	Safeguards against entry or consequences of entry of a foreign object	N/A
P.2.1	General	N/A
P.2.2	Safeguards against entry of a foreign object	N/A
	Location and Dimensions (mm):	_
P.2.3	Safeguards against the consequences of entry of a foreign object	N/A
P.2.3.1	Safeguard requirements	N/A
	The ES3 and PS3 keep-out volume in Figure P.3 not applicable to transportable equipment	N/A
	Transportable equipment with metalized plastic parts:	N/A
P.2.3.2	Consequence of entry test:	N/A
P.3	Safeguards against spillage of internal liquids	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, Tc (°C):	_
	Duration (weeks):	_
Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING	Р
Q.1	Limited power sources	Р
Q.1.1	Requirements	Р
	a) Inherently limited output	N/A
	b) Impedance limited output	N/A

	IEC 62368-1				
Clause	Requirement + Test Result -	Remark	Verdict		
			Т 5		
		ppended table Q.1)	P		
	d) Overcurrent protective device limited output		N/A		
_	e) IC current limiter complying with G.9		N/A		
Q.1.2		ppended table Q.1)	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		
	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 integri	ty	N/A		
	Samples, material:		_		
	Wall thickness (mm):		_		
	Conditioning (°C):		_		
S.3	Flammability test for the bottom of a fire enclosure		N/A		

	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
S.3.1	Mounting of samples		N/A
S.3.2	Test method and compliance		N/A
	Mounting of samples:		
	Wall thickness (mm):		_
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosures and fire barr where the steady state power exceeding 4 000 W	ier 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:		N/A
T.3	Steady force test, 30 N:		N/A
T.4	Steady force test, 100 N:		N/A
T.5	Steady force test, 250 N:	(See appended table T.5)	Р
T.6	Enclosure impact test	(See appended table T.6)	Р
	Fall test		Р
	Swing test		Р
T.7	Drop test:		N/A
T.8	Stress relief test:	(See appended table T.8)	Р
T.9	Glass Impact Test:		N/A
T.10	Glass fragmentation test		N/A
	Number of particles counted		N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm):		N/A
U	MECHANICAL STRENGTH OF CATHODE RAY TUI AGAINST THE EFFECTS OF IMPLOSION	BES (CRT) AND PROTECTION	N/A
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

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

٧	DETERMINATION OF ACCESSIBLE PARTS	N/A		
V.1	Accessible parts of equipment	N/A		
V.1.1	General	N/A		
V.1.2	Surfaces and openings tested with jointed test probes	N/A		
V.1.3	Openings tested with straight unjointed test probes	N/A		
V.1.4	Plugs, jacks, connectors tested with blunt probe	N/A		
V.1.5	Slot openings tested with wedge probe	N/A		
V.1.6	Terminals tested with rigid test wire	N/A		
V.2	Accessible part criterion	N/A		
X	ALTERNATIVE METHOD FOR DETERMINING CLEARANCES FOR INSULATION IN CIRCUITS CONNECTED TO AN AC MAINS NOT EXCEEDING 420 V PEAK (300 V RMS)	N/A		
	Clearance	N/A		
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES			
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		

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

IEC 62368-1					
Clau	use	Requirement + Test		Result - Remark	Verdict

5.2	TABLE: Classification	on of electrical en	ergy soul	rces			Р
Supply Voltage	Location (e.g.	Test conditions		F	Parameters		ES Class
voltage	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class
		Normal					ES1
24Vdc	Input Connectors	abnormal - see table B.3					(declar ed)
		abnormal - see table B.4					
		Normal	Max.12. 08Vdc				ES1
24Vdc	USB-A output port "+" to "-"	abnormal - see table B.3	Max.12. 08Vdc				ES1
		abnormal - see table B.4	Max.12. 08Vdc				ES1
		Normal	Max.20. 09Vdc				ES1
24Vdc	USB-C output port "+" to "-"	abnormal - see table B.3	Max.20. 09Vdc				ES1
		abnormal - see table B.4	Max.20. 09Vdc				ES1

Supplementary information:

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

5.4.1.8	TABLE: Working voltage measurement					
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comments	
Supplement	Supplementary information: N/A					

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

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IEC 62368-1							
Clause	Requirement + Tes	st		Result - Remark		Verdict	
					1		
Supplementa	Supplementary information: N/A						

5.4.1.10.3	TABLE: Ball pre	ssure test of thermoplas	tics				N/A
Allowed imp	Allowed impression diameter (mm) ≤ 2 mm						_
Object/Part No./Material Manufacturer/trademark			Thickness	(mm)	Test temperature (°C)	•	ression ter (mm)
Supplementa	Supplementary information: N/A						

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance							N/A	
Clearance (cl) and creepage distance (V) (V) (V) (Hz) $(Hz$						cr (mm)		
Supplementary information:								

5.4.4.2	TABLE: Minimun	n distance through insul	ation			N/A			
Distance through insulation (DTI) at/of		Peak voltage (V)	Insulation Required D (mm)		Measured DTI (mm)				
Supplement	Supplementary information: N/A								

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

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

			Page 44 0	179		Kep	ort No. AO	C251	1060125
			IEC 62	368-1					
Clause	Require	ment + Test			Result - I	Remark			Verdict
								'	
5.5.2.2	TABLE:	Stored discharg	ge on capacitors	 S					N/A
Location		Supply voltage	(V) Operating a condition		Switch position		Measured Itage (Vpk		S Class
Supplement X-capacitors bleeding ICX: 1) Normal of	installed resistor r	for testing:	ormal operation,	or open fus	se), SC= s	hort circ	uit, OC= c	pen o	circuit
5.6.6	TABLE: Resistance of protective conductors and terminations						N/A		
Location			Test current (A)		Duration Vol		Voltage drop Re		sistance (Ω)
				-	-				
Supplementa	ary inform	nation: N/A							
5.7.4	TABLE:	Unearthed acce	ssible parts						N/A
Location		Operating and	Supply		Para	ameters			ES
		fault conditions	Voltage (V)	Voltag (V _{rms} or		Currer A _{rms} or A		req. Hz)	class
Supplementa Abbreviation	•	nation: ort circuit; OC= o	pen circuit						
	T								
5.7.5	TABLE:	Earthed access	ible conductive	part					N/A
Supply volta	ge (V)	·····:							
Phase(s)	Phase(s) [] Single Phase; [] Three Phase: [] Delta [] Wye —								_
Power Distribution System: TN TT IT						_			
Location			Fault Condition No in IEC Touch current (mA)		С	Comment			
					-	-			
Supplement	ary Inforn	nation: N/A			•				
-									

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

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

6.2.2 TA	ABLE: Power source	circuit classificat	ions			Р
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
USB-A output:	Normal	5.07	3.6	17.93	5	PS2
5V	U1 pin 1-5 SC	0	0	0	3	PS1
USB-A output:	Normal	9.06	2.6	23.24	5	PS2
9V	U1 pin 1-5 SC	0	0	0	3	PS1
USB-A output:	Normal	12.08	2.6	31.09	5	PS2
12V	U1 pin 1-5 SC	0	0	0	3	PS1
USB-C output: 5V	Normal	4.98	3.7	18.11	5	PS2
	U2 pin 4-16 SC	0	0	0	3	PS1
USB-C output:	Normal	3.38	3.3	10.83	3	PS1
3.3V	U2 pin 4-16 SC	0	0	0	3	PS1
USB-C output:	Normal	11.07	3.3	36.21	5	PS2
11V	U2 pin 4-16 SC	0	0	0	3	PS1
USB-C output:	Normal	8.99	3.5	31.15	5	PS2
9V	U2 pin 4-16 SC	0	0	0	3	PS1
USB-C output:	Normal	10.99	3.5	38.15	5	PS2
12V	U2 pin 4-16 SC	0	0	0	3	PS1
USB-C output:	Normal	15.08	3.5	52.46	5	PS2
15V	U2 pin 4-16 SC	0	0	0	3	PS1
USB-C output:	Normal	20.07	3.2	63.90	5	PS2
20V	U2 pin 4-16 SC	0	0	0	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.

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

6.2.3.1	3.1 TABLE: Determination of Arcing PIS						
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value		cing PIS? /es / No	
Supplementary information: N/A							

6.2.3.2	TABLE: Determi	nation of resistive PIS		Р				
Location		Operating and fault condition	Dissipate power (W)	Resistive PIS? Yes / No				
All internal circuits / components				Yes (declaration)				
	Supplementary information: Abbreviation: SC= short circuit; OC= open circuit							

8.5.5	TABLE: High pre	ssure lamp				N/A
Lamp manuf	facturer	Lamp type	Explosion method	Longest axis of glass particle (mm)	be	ticle found yond 1 m es / No
				-		
Supplementa	ary information: N/A					

9.6	TABLE:	Temperat	ure measu	reme	ents fo	or wireless	power tra	nsmitters		N/A
Supply volta	ge (V)			:						_
Max. transmit power of transmitter (W):										_
· ·					th receiver and direct contact		with receiver and at distance of 2 mm		with receiver and distance of 5 mr	
Foreign of	bjects	Object (°C)	Ambient (°C)		ject C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Supplement	ary inforn	nation: N/A								

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

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Tempe	rature mea	sureme	ents						Р
Supply volta	ge (V)		:	Conc tion (Condi tion L	Condi tion Q	Condi tion R	_
Ambient tem	Ambient temperature during test <i>T</i> _{amb} (°C):					25.0	25.0	25.0	25.0	_
Maximum m	easured tempera	ture <i>T</i> of pa	ırt/at:		·	T (°C)			Allowed T _{max} (°C)
PCB near Q	2			108.	98.3	95.4	118.4	113.3	113.9	130
PCB near U	1			97.4	87.2	85.4	109.3	103.0	104.2	130
L1 coil				104.4	95.3	92.3	120.2	112.3	112.5	130
EC1 Body	EC1 Body				88.1	85.8	108.5	104.2	104.6	125
EC2 Body	EC2 Body				77.6	75.9	95.2	90.6	91.2	125
PCB near U	SB-A			92.4	82.5	80.7	102.3	96.5	97.9	130
PCB near U	SB-C			90.5	81.4	80.0	99.1	93.9	95.3	130
Plastic enclo	sure near L1, ins	ide		80.8	70.6	68.1	90.7	86.1	85.5	120
Plastic enclo	osure near L1, out	tside		69.0	65.9	63.4	74.6	69.7	71.6	120
Plastic enclo	sure near USB-A	port, outsi	de	69.7	64.1	63.5	73.6	71.8	72.6	77
	Plastic enclosure near between USB-A and USB-C, outside					52.3	63.3	59.8	59.9	77
Plastic enclo	Plastic enclosure near USB-C port, outside					54.8	62.5	60.5	59.4	77
Temperature	Temperature T of winding: t_1 (°C) R_1 (Ω			2)	t ₂ (°C)	$R_2(\Omega)$	T (°	-,	Allowed max (°C)	Insulation class

Supplementary information:

Condition C: Input: 12Vdc, Load: USB-A: 12Vdc, 1.5A Condition H: Input: 12Vdc, Load: USB-C: 20Vdc, 1.75A Condition I: Input: 12Vdc, Load: USB-A+USB-C: 5Vdc, 3A Condition L: Input: 24Vdc, Load: USB-A: 12Vdc, 1.5A Condition Q: Input: 24Vdc, Load: USB-C: 20Vdc, 1.75A Condition R: Input: 24Vdc, Load: USB-A+USB-C: 5Vdc, 3A

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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Page 48 of 79

Report No. AOC251106012S

				IEC 6236	8-1			
Clause	Requirem	ent + Test				Result - Rema	rk	Verdict
40)//	1		1			1 4 45	0 1111	
12Vdc	 1.45	4	17.4		F1	1.45	Condition	
12Vdc	 1.685	4	20.22		F1	1.685	Condition	
12Vdc	 1.7	4	20.4		F1	1.7	Condition	С
12Vdc	 1.458	4	17.496		F1	1.458	Condition	D
12Vdc	 2.453	4	29.436		F1	2.453	Condition	Ε
12Vdc	 3.117	4	37.404		F1	3.117	Condition	F
12Vdc	 3.099	4	37.188		F1	3.099	Condition	G
12Vdc	 3.11	4	37.32		F1	3.11	Condition	Н
12Vdc	 1.6	4	19.2		F1	1.6	Condition	n l
24Vdc	 0.776	4	18.624		F1	0.776	Condition	n J
24Vdc	 0.895	4	21.48		F1	0.895	Condition	K
24Vdc	 0.9	4	21.6		F1	0.9	Condition	ı L
24Vdc	 0.784	4	18.816	-	F1	0.784	Condition	M
24Vdc	 1.28	4	30.72		F1	1.28	Condition	N
24Vdc	 1.603	4	38.472		F1	1.603	Condition	0
24Vdc	 1.6	4	38.4	-	F1	1.6	Condition	Р
24Vdc	 1.605	4	38.52	-	F1	1.605	Condition	Q
24Vdc	 0.851	4	20.424		F1	0.851	Condition	R
12Vdc	 0.854	4	10.248		F1	0.854	Condition	S
12Vdc	 2.863	4	34.356		F1	2.863	Condition	T
24Vdc	 0.43	4	10.32		F1	0.43	Condition	U
24Vdc	 1.44	4	34.56		F1	1.44	Condition	١V

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

Supplementary information:

Condition A: Input: 12Vdc, Load: USB-A: 5Vdc, 3A
Condition B: Input: 12Vdc, Load: USB-A: 9Vdc, 2A
Condition C: Input: 12Vdc, Load: USB-A: 12Vdc, 1.5A
Condition D: Input: 12Vdc, Load: USB-C: 5Vdc, 3A
Condition E: Input: 12Vdc, Load: USB-C: 9Vdc, 3A
Condition F: Input: 12Vdc, Load: USB-C: 12Vdc, 2.92A
Condition G: Input: 12Vdc, Load: USB-C: 15Vdc, 2.33A
Condition H: Input: 12Vdc, Load: USB-C:20Vdc, 1.75A
Condition I: Input: 12Vdc, Load: USB-A+USB-C: 5Vdc, 3.4A

Condition J: Input: 24Vdc, Load: USB-A: 5Vdc, 3A
Condition K: Input: 24Vdc, Load: USB-A: 9Vdc, 2A
Condition L: Input: 24Vdc, Load: USB-A: 12Vdc, 1.5A
Condition M: Input: 24Vdc, Load: USB-C: 5Vdc, 3A
Condition N: Input: 24Vdc, Load: USB-C: 9Vdc, 3A
Condition O: Input: 24Vdc, Load: USB-C: 12Vdc, 2.92A
Condition P: Input: 24Vdc, Load: USB-C: 15Vdc, 2.33A
Condition Q: Input: 24Vdc, Load: USB-C: 20Vdc, 1.75A
Condition R: Input: 24Vdc, Load: USB-A+USB-C: 5Vdc, 3.4A

Condition S: Input: 24Vdc, Load: USB-C: 20Vdc, 1.75A Condition T: Input: 24Vdc, Load: USB-C: 20Vdc, 1.75A Condition U: Input: 24Vdc, Load: USB-C: 20Vdc, 1.75A Condition V: Input: 24Vdc, Load: USB-C: 20Vdc, 1.75A

Equipment may be have rated current or rated power or both. Both should be measured.

B.3, B.4	TAB	LE: Abnormal o	operating a	ınd fault d	ondition te	ests		Р
Ambient tem	npera	ture T _{amb} (°C)			:	25°C	if not specified	_
Power source	ce for	EUT: Manufactu						
Component	No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse Observation current (A)		n
USB-A outpoport "+", "-"	ut	SC	24Vdc	10mins	F1	0.009	Unit shut down imm recoverable when f condition removed. damage, no hazard	ault No
USB-C outp port "+", "-"	ut	SC	24Vdc	10mins	F1	0.009	Unit shut down immorecoverable when for condition removed. damage, no hazard	ault No

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

					1	
EC1	SC	24Vdc	10mins	F1	0	Unit shut down, F1 fuse open, no hazardous.
EC2	SC	24Vdc	10mins	F1	0	Unit shut down, F1 fuse open, no hazardous.
C4	sc	24Vdc	10mins		0	Unit shut down, F1 fuse open, no hazardous.
R2	SC	24Vdc	10mins	F1	0.009	Unit shut down immediately, recoverable when fault condition removed. No damage, no hazard.
U1 Pin 6-10	SC	24Vdc	10mins	F1	0.009	Unit shut down immediately, recoverable when fault condition removed. No damage, no hazard.
U1 Pin 6-30	SC	24Vdc	10mins	F1	0.009	Unit shut down immediately, recoverable when fault condition removed. No damage, no hazard.
Q1 Pin S-D	SC	24Vdc	10mins	F1	0.009	Unit shut down immediately, recoverable when fault condition removed. No damage, no hazard.
Q1 Pin G-D	SC	24Vdc	10mins	F1	0.009	Unit shut down immediately, recoverable when fault condition removed. No damage, no hazard.
Q1 Pin G-S	SC	24Vdc	10mins	F1	1.527	Unit normal working. No damage, no hazard.
USB-C port 3.3V output	OL	24Vdc	30mins	F1	0.551	USB-C port maximum output when output overload to 3.3A. When output exceeds 3.35A, the unit is protected immediately, no damaged, can be recovery, no hazardous.
USB-C port 11V output	OL	24Vdc	30mins	F1	1.789	USB-C port maximum output when output overload to 3.3A. When output exceeds 3.35A, the unit is protected immediately, no damaged, can be recovery, no hazardous.
USB-C port 5V output	OL	24Vdc	30mins	F1	0.822	USB-C port maximum output when output overload to 3.7A.

		IEC 62368-1		
Clause	Requirement + Test		Result - Remark	Verdict
				1.0754

						When output exceeds 3.75A, the unit is protected immediately, no damaged, can be recovery, no hazardous.
USB-C port 9V output	OL	24Vdc	30mins	F1	1.463	USB-C port maximum output when output overload to 3.5A. When output exceeds 3.55A, the unit is protected immediately, no damaged, can be recovery, no hazardous.
USB-C port 12V output	OL	24Vdc	30mins	F1	1.589	USB-C port maximum output when output overload to 3.5A. When output exceeds 3.55A, the unit is protected immediately, no damaged, can be recovery, no hazardous.
USB-C port 15V output	OL	24Vdc	30mins	F1	2.389	USB-C port maximum output when output overload to 3.5A. When output exceeds 3.55A, the unit is protected immediately, no damaged, can be recovery, no hazardous.
USB-C port 20V output	OL	24Vdc	4h47mi ns	F1	2.715	USB-C port maximum output when output overload to 3.2A. When output exceeds 3.25A, the unit is protected immediately, no damaged, can be recovery, no hazardous.

Supplementary information: SC= short circuit; OC= open circuit; OL= Overload

M.3	TABLE: Pro	otection circuits for batteries	s provided wi	thin the equipment	N/A	
Is it possible to install the battery in a reverse polarity position?:						
		Charging				
Equipment S	pecification	Voltage (V)		Current (A)		
Manufacturer/type		Battery specification				
		Non-rechargeable batteries	Rechargeable batteries			

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

		Discharging		tentional	C	Char	ging		Discharging	Reverse
		current (A)		arging rent (A)	Voltage ((V)	Curr		current (A)	charging current (A)
Note: The test	Note: The tests of M.3.2 are applicable only when above appropriate data is not available.									
Specified batt	ery temperat	ure (°C)				.:				_
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)		rrent A)	Voltage (V)	ge Observation	

Supplementary information:

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

M.4.2	TABLE: battery	Charging saf	feguards for	equipment c	ontaining a	secondary lithium	N/A
Maximum sp	ecified ch	narging voltage	e (V)		:		
Maximum specified charging current (A):							
Highest specified charging temperature (°C): :							
Lowest spec	ified char	ging temperatu	ure (°C)		:		_
Battery		Operating	Measurement			Observation	n
manufacture	r/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°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

Q.1	TABLE: Circuits inte	ended for inte	rconnectio	n with build	ling wiring	(LPS)	Р
Output Circuit	Condition	U _{oc} (V)	Time (s)	I _{sc} (A)		S (VA)	
	Condition	Ooc (V)		Meas.	Limit	Meas.	Limit
USB-A output: 5V	Normal	5.07	5	3.6	8	17.93	10
	U1 pin 1-5 SC	0	5	0	8	0	10
USB-A	Normal	9.06	5	2.6	8	23.24	10

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		IE	EC 62368-1				
Clause	Requirement + Test			Result	- Remark		Verdict
output: 9V	U1 pin 1-5 SC	0	5	0	8	0	10
USB-A output: 12V	Normal	12.08	5	2.6	8	31.09	10
	U1 pin 1-5 SC	0	5	0	8	0	10
USB-C output: 5V	Normal	4.98		3.7		18.11	
	U2 pin 4-16 SC	0		0		0	
USB-C output: 3.3V	Normal	3.38		3.3		10.83	
	U2 pin 4-16 SC	0		0		0	
USB-C	Normal	11.07	5	3.3	8	36.21	10
output: 11V	U2 pin 4-16 SC	0	5	0	8	0	10
USB-C	Normal	8.99	5	3.5	8	31.15	10
output: 9V	U2 pin 4-16 SC	0	5	0	8	0	10
USB-C	Normal	10.99	5	3.5	8	38.15	10
output: 12V	U2 pin 4-16 SC	0	5	0	8	0	10
USB-C	Normal	15.08	5	3.5	8	52.46	10
output: 15V	U2 pin 4-16 SC	0	5	0	8	0	10
USB-C	Normal	20.07	5	3.2	8	63.90	10
output: 20V	U2 pin 4-16 SC	0	5	0	8	0	10
Supplementa	ry Information: Abbrevi	ation: SC= sh	ort circuit; O	C= open cir	cuit	•	

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		
Top enclo	sure	Plastic	Min. 1.0		250	5	No damage, No hazard		
Side enclo	sure	Plastic	Min. 1.0		250	5	No damage, No hazard		
Bottom enclosure		Plastic	Min. 1.0		250	5	No damage, No hazard		
Supplementa	Supplementary information: N/A								

T.6, T.9 TABLE: Imp	ABLE: Impact test						
Location/part	Material	Thickness (mm)	Height (mm)	Observatio	on		

IEC 62368-1									
Clause	Requirement	ement + Test			Result - Remark				
Top enclosure		Plastic	Min. 1.0	1300	No damage, No	hazard			
Side	enclosure	Plastic	Min. 1.0	1300	No damage, No	hazard			
Bottom enclosure		Plastic	Min. 1.0	1300	No damage, No hazard				
Supplemer	Supplementary information: N/A								

T.7	TABLE: Drop	o test				N/A		
Location/par	t	Material	Thickness (mm)	Height (mm)	Observation	on		
Supplementary information: N/A								

T.8 TABLE	: Stress relief to	est			Р			
Location/Part	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation			
Completed sample	Plastic	Min. 1.0	103	7	No damaged, the hazardous live parts cannot be touched.			
Supplementary information: N/A								

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

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

4.1.2 T	ABLE: Critical compo	onents information	on			Р
Object / part No.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s	
Plastic enclosure	SABIC JAPAN L L C	945(GG)	120 °C, V-0, Min. thickness: 1.0 mm	UL 94 UL 746C	UL E2	07780
PCB	MEIZHOU ASHINEELECTRO NIC., Ltd	AE-M, AE-D	V-0, 130 °C	UL 94	UL E5	07361
Fuse (F1)	ADVANCED SURGETECH MATERIALS LTD	06 110.5	32 V, 5 A	UL 248-1 UL 248-14	UL E3	55868
Line filter (L1)	ShenZhen HaoKen Electronics Technology Co., Ltd	RYXH040125- 33UH	33 µH, 130 °C	IEC/EN 62368-1	Tested applia	
Magnet wire	FURKAWA MAGNET WIRE CO.LTD	xUEW/155	155 °C	UL 1446	UL E3	39330
Heat shrinkable tube	SHENZHEN WOER HEAT- SHRINKABLE MATERIAL CO LTD	SBRS	VW-1, 125 °C, 600 V	UL 244	UL E2	03950
Electrolytic Capacitor (EC1, EC2)	Interchangeable	Interchangeable	Min. 100 μF, Min. 125 °C, Min. 25 V	IEC/EN 62368-1	Tested applia	

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

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

Attachment No.1		IEC62368_1E - ATTACHMENT	
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

Attachment Form No...... EU_GD_IEC62368_1E

Attachment Originator: UL (Demko)

Master Attachment 2021-02-04

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	CENELEC COMMON 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:	Р		
	Annex ZA (normative) Normative references to international publications with their corresponding European publications			
	Annex ZB (normative) Special national conditions			
	Annex ZC (informative) A-deviations			
	Annex ZD (informative) IEC and CENELEC code designations for flexible cords			
1	Modification to Clause 3.	_		
3.3.19	Sound exposure	N/A		
	Replace 3.3.19 of IEC 62368-1 with the following definitions:			
3.3.19.1	momentary exposure level, MEL	N/A		
	metric for estimating 1 s sound exposure level from the HD 483-1 S2 test signal applied to both channels, based on EN 50332-1:2013, 4.2.			
	Note 1 to entry: MEL is measured as A-weighted levels in dB.			
	Note 2 to entry: See B.3 of EN 50332-3:2017 for additional information.			
3.3.19.3	sound exposure, E	N/A		
	A-weighted sound pressure (p) squared and integrated over a stated period of time, T			

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Attachm	ent No.1	IEC62368_1E - A	ATTACHMENT	
Clause	Require	ement + Test	Result - Remark	Verdict
	•			
	7	entry: The SI unit is Pa ² s.		
	$E = \int$	$p(t)^2 dt$		
	C			
3.3.19.4	sound e	exposure level, SEL		N/A
	reference	mic measure of sound exposure relative to a see value, E_0 , typically the 1 kHz d 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 informatio	entry: See B.4 of EN 50332-3:2017 for additional n.		
3.3.19.5	digital s	signal level relative to full scale, dBFS		N/A
	level, 0 d Hz sine is positiv	eported in dBFS are always r.m.s. Full scale dBFS, is the level of a dc-free 997-wave whose undithered positive peak value we digital full scale, leaving the code onding to negative digital full scale unused		
	Because t	entry: It is invalid to use dBFS for non-r.m.s. levels. he definition of full scale is based on a sine wave, the gnals with a crest factor lower than that of a sine wave ed 0 dBFS. In particular, square wave signals may 01 dBFS.		
2	Modifica	ation to Clause 10		_
10.6	Safegua	ards against acoustic energy sources		N/A
	_	10.6 of IEC 62368-1 with the following:		
10.6.1.1	Introduc	ction		N/A
	term explevels from to the earph with person A person	ard requirements for protection against long- cosure to excessive sound pressure om personal music players closely coupled ar are specified below. Requirements hones and headphones intended for use sonal music players are also covered. nal music player is a portable equipment d for use by an ordinary person, that:		
	audiovis	signed to allow the user to listen to audio or sual content / material; and a listening device, such as headphones or		

Attachment No.1		IEC62368_1E - /	ATTACHMENT	
Clause	Require	ment + Test	Result - Remark	Verdict
	relevant	toy standards may apply.		
	The seals			
		vant requirements are given in :2011, 4.20 and the related tests methods		
		asurement distances apply.		
10.6.1.2		nizing radiation from radio frequencies in		N/A
10.0.1.2		ge 0 to 300 GHz		IN/A
		ount of non-ionizing radiation is regulated by		
		an Council Recommendation 1999/519/EC of		
		1999 on the limitation of exposure of the public to electromagnetic fields (0 Hz to 300		
	GHz).	public to electromagnetic fields (0.112 to 300		
		ntional radiators, ICNIRP guidelines should		
		n into account for Limiting Exposure to Time-		
		Electric, Magnetic, and Electromagnetic		
		up to 300 GHz). For hand-held and body		
		d devices, attention is drawn to EN 50360		
10.6.2	and EN	ວບວດວ. cation of devices without the capacity to e	stimate sound dose	N/A
10.6.2.1	General			
10.0.2.1	General			N/A
		ndard is transitioning from short-term based equirements to long-term based (40 hour)		
		nents. These clauses remain in effect only		
		ces that do not comply with sound dose		
		on as stipulated in ĖŃ 50332-3.		
		sifying the acoustic output L_{Aeq} , τ ,		
		ements are based on the A-weighted ent sound pressure level over a 30 s period.		
	equivale	int sound pressure level over a 30 s penou.		
	For mus	ic where the average sound pressure (long		
	term LA	eq, τ) measured over the duration of the song		
		than the average produced by the		
		me simulation noise, measurements may be		
		er the duration of the complete song. In this becomes the duration of the song.		
	case, i	becomes the duration of the song.		
		ssical music, acoustic music and broadcast typically		
		erage sound pressure (long term L_{Aeq} , τ) which is much the average programme simulation noise. Therefore, if		
		is capable to analyse the content and compare it with		
		mme simulation noise, the warning does not need to be		
		ong as the average sound pressure of the song does d the required limit.		
	For examp	ole, if the player is set with the programme simulation		
		5 dB, but the average music level of the song is only 65 is no need to give a warning or ask an		
	acknowled	dgement as long as the average sound level of the song		
	is not abov	ve the basic limit of 85 dB.		1

Clause Requirement + Test Result - Remark Verdict	Attachment No.1 IEC62368_1E - ATTACHMENT			
	Clause	Requirement + Test	Result - Remark	Verdict

Clause	Requirement + rest	Result - Remark	verdict
	DC4 limits (to be supercoded, see 40.0.2.2)	T	
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 L_{Aeq} , 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 LAeq, 7 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		
10604	simulation noise" as described in EN 50332-1. RS3 limits		N1/A
10.6.2.4	Too minto		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		

Attachment No.1 IEC62368_1E - ATTACHMENT			
Clause	Requirement + Tes	Result - Remark	Verdict

	warnings. New limits, compliant with The	
	Commission Decision of 23 June 2009, are given	
10.6.3.2	below. RS1 limits (new)	
10.0.3.2	KST minus (new)	N/A
	RS1 is a class 1 acoustic energy source that does	
	not exceed the following:	
	- for equipment provided as a package (player with	
	its listening device), and with a proprietary connector	
	between the player and its listening device, or where	
	the combination of player and listening device is	
	known by other means such as setting or automatic	
	detection, the L_{Aeq} , τ acoustic output shall be $\leq 80 \text{ dB}$	
	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	
	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	
. 3.3.7.1	modest official filetifodo	N/A
	All volume controls shall be turned to maximum	
	during toots	1
	during tests.	
	Measurements shall be made in accordance with	

Attachment No.1		IEC62368_1E - A	ATTACHMENT		
Clause	Require	ment + Test		Result - Remark	Verdict

	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 ordinary person, the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual. Alternatively, the instructional safeguard may be given through the equipment display during use	
	given through the equipment display during use.	
	The elements of the instructional safeguard shall be as follows:	
	\triangle	
	- element 1a: the symbol (2011-01)	
	– element 2: "High sound pressure" or equivalent wording	
	– element 3: "Hearing damage risk" or equivalent	
	wording – element 4: "Do not listen at high volume levels for long periods." or equivalent wording	
	An equipment safeguard shall prevent exposure of an ordinary person to an RS2 source without intentional physical action from the ordinary person and shall automatically return to an output level not exceeding what is specified for an RS1 source when the power is switched off.	
	The equipment shall provide a means to actively inform the user of the increased sound level when the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.	
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed.	
	NOTE 3 The 20 h listening time is the accumulative listening time,	

Attachm	ent No.1	IEC62368_1E - A	ATTACHMENT	
Clause	Require	ment + Test	Result - Remark	Verdict
		nt of how often and how long the personal music player switched off.		
	A skilled exposed	d person shall not be unintentionally to RS3.		
10.6.5	Require	ments for dose-based systems		N/A
10.6.5.1	General	requirements		N/A
	The mar allow the receive to better us safeguar a methor and deviare offer restriction etc.) shallowing the safeguar and the	I music players shall give the warnings as below when tested according to EN 50332-the limits from this clause. Introducturer may offer optional settings to experience without defeating the rots. This allows the users to be informed in that best meets their physical capabilities are usage needs. If such optional settings ed, an administrator (for example, parental ins, business/educational administrators, all be able to lock any optional settings into a configuration.		
	easy to u dose ma how to u made av contribut	sonal music player shall be supplied with understand explanation to the user of the inagement system, the risks involved, and se the system safely. The user shall be ware that other sources may significantly the to their sound exposure, for example insportation, concerts, clubs, cinema, car icc.		
10.6.5.2		sed warning and requirements		N/A
	at every shall war acknowle acknowle	dose of 100 % <i>CSD</i> is reached, and at least 100 % further increase of <i>CSD</i> , the device rn the user and require an edgement. In case the user does not edge, the output level shall automatically e to compliance with class RS1.		
	listening	ning shall at least clearly indicate that above 100 % CSD leads to the risk of damage or loss.		
10.6.5.3	Exposu	re-based requirements		N/A
	effect co	y dose-based requirements, cause and uld be far separated in time, defying the of educating users about safe listening In addition to dose-based requirements, a		

Attachm	ent No.1	IEC62368_1E - ATTACHMENT		
Clause	Require	ment + Test	Result - Remark	Verdict
	The exp reduce t 150 mV methodo The ELs	all therefore also put a limit to the short-term evel a user can listen at. osure-based limiter (EL) shall automatically he sound level not to exceed 100 dB(A) or integrated over the past 180 s, based on ology defined in EN 50332-3. settling time (time from starting level in to reaching target output) shall be 10 s or		
	EN 5033 equipme listening shall be with a st integrate for an ar dBFS fo	EL functionality is conducted according to 82-3, using the limits from this clause. For ent provided as a package (player with its device), the level integrated over 180 s 100 dB or lower. For equipment provided andardized connector, the unweighted level ed over 180 s shall be no more than 150 mV halogue interface and no more than -10 r a digital interface.		

10.6.6	Requirements for listening devices (headphones, earphones, etc.)	N/A
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 central, additional sound features like	N/A
	volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the input voltage of the listening device when playing the fixed "programme simulation noise" as described in EN 50332-1 shall be ≥ 75 mV.	
	NOTE The values of 94 dB and 75 mV correspond with 85 dB and 27 mV or 100 dB and 150 mV.	
10.6.6.2	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the LAeq, racoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	N/A

Attachment No.1			IEC62368_1E - ATTACHMENT		
Clause	Require	ment + Test		Result - Remark	Verdict

10.6.6.3	Cordless listening devices	N/A
	In cordless mode, — with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and — respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and — with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, ⊤acoustic output of the listening device shall be ≤ 100 dB with an input signal of -10 dBFS.	
10.6.6.4	Measurement method Measurements shall be made in accordance with EN 50332-2 as applicable.	N/A
3	Modification to the whole document	_

Attachment No.1			IEC62368_1E - A	ATTACHMENT	
Clause	Require	ment + 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				
Modification	n to Clause 1		l		I
Add the follo					

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

		3.9	.,	
Attachme	nt No.1	IEC62368_1E - A	ATTACHMENT	
Clause	Require	ment + Test	Result - Remark	Verdict
	La			
	coupler, fault pro devices c) it is po perman dedicate the build protectic specified. If reliand installati state, ex the build providing the build providing the state of the build providing the state of the build providing the state of th	pment such as the supply cord, appliance r.f.i. filter and switch, short-circuit and earth tection may be provided by protective in the building installation; ermitted for pluggable equipment type B or ently connected equipment, to rely on ed overcurrent and short-circuit protection in ling installation, provided that the means of on, e.g. fuses or circuit breakers, is fully d in the installation instructions. The is placed on protection in the building on, the installation instructions shall so accept that for pluggable equipment type A ling installation shall be regarded as g protection in accordance with the rating of socket outlet.		
6		ation to 5.4.2.3.2.4		
				_
5.4.2.3.2.4	The req	in following to the end of this subclause: uirement for interconnection with external is in addition given in EN 50491-3:2009.		N/A
7	Modifica	ation to 10.2.1		_
10.2.1	Add the	following to c) and d) in table 39:		N/A
	For addi	tional requirements, see 10.5.1.		

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

Attachr	nent No.1	IEC62368_1E - ATTACHMENT				
Clause	Require	ment + Test	Result - Remark	Verdict		
	fault corvoltage, for 1 h, a made.	er, the measurement shall be made under ditions causing an increase of the high provided an intelligible picture is maintained at the end of which the measurement is , the dose-rate shall not exceed 1 µSv/h eccount of the background level.				
9	NOTE Z2 May 1996	These values appear in Directive 96/29/Euratom of 13		_		
G.7.1	NOTE Z1	following note: The harmonized code designations corresponding to ord types are given in Annex ZD.		N/A		

10	Modification to Bib	liography	_
	Add the following no	otes for the standards indicated:	N/A
	IEC 60130-9 IEC 60269-2 IEC 60309-1 IEC 60364 IEC 60664-5 IEC 61558-2-1 IEC 61558-2-4 IEC 61558-2-6 IEC 61643-1 IEC 61643-311 IEC 61643-321 IEC 61643-331	NOTE Harmonized as EN 60130-9. NOTE Harmonized as HD 60269-2. NOTE Harmonized as EN 60309-1. NOTE some parts harmonized in HD 384/HD 60364 series. NOTE Harmonized as EN 60601-2-4. NOTE Harmonized as EN 60664-5. NOTE Harmonized as EN 61032:1998 (not modified). NOTE Harmonized as EN 61508-1. NOTE Harmonized as EN 61558-2-1. NOTE Harmonized as EN 61558-2-4. NOTE Harmonized as EN 61558-2-6. NOTE Harmonized as EN 61643-1. NOTE Harmonized as EN 61643-311. NOTE Harmonized as EN 61643-321. NOTE Harmonized as EN 61643-331.	
11	ADDITION OF ANN	EXES	_
ZB	ANNEX ZB, SPECIA	AL NATIONAL CONDITIONS (EN)	_
4.1.15	Denmark, Finland,	Norway and Sweden	N/A
	Class I pluggable e	ty relies on connection to	

Attachm	ent No.1	IEC62368_1E -	ATTACHMENT	
Clause	Require	ment + Test	Result - Remark	Verdict
			T	
	accessi	ble parts, have a marking stating that the ent shall be connected to an earthed mains outlet.		
	The mar as follow	king text in the applicable countries shall be vs:		
	stikkonta stikpropp In Finlar varusteti	nark: "Apparatets stikprop skal tilsluttes en akt med jord som giver forbindelse til bens jord." nd: "Laite on liitettävä suojakoskettimilla tuun pistorasiaan" ay: "Apparatet må tilkoples jordet		
	In Swed uttag"	en: "Apparaten skall anslutas till jordat		
4.7.3	United I	Kingdom		Р
	To the e	nd of the subclause the following is added:		
	complyir assesse	ue test is performed using a socket-outlet ng with BS 1363, and the plug part shall be d to the relevant clauses of BS 1363. Also ex G.4.2 of this annex		
5.2.2.2	Denmar	k		N/A
	After the	2nd paragraph add the following:		
	current is	ng (marking safeguard) for high touch s required if the touch current exceeds the 3,5 mA a.c. or 10 mA d.c.		
5.4.11.1		and Sweden		N/A

To the end of the subclause the following is added:

For separation of the telecommunication network

If this insulation is solid, including insulation forming

· 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

from earth the following is applicable:

part of a component, it shall at least

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consist of either

strength test below.

and Annex G

Attachme	nt No.1	IEC62368_1E -	ATTACHMENT	
Clause	Require	ment + Test	Result - Remark	Verdict
	compon distance insulation complete creepagy passes to the com • passes with a by 1,6 perform and • is subduring kV. It is perform and a capacito subclass to the following the following the important following the impor	itor classified Y3 according to EN 60384-, may bridge this insulation under wing conditions: sulation requirements are satisfied by a capacitor classified Y3 as defined by EN 4-14, which in addition to the Y3 testing, is d with an impulse test of 2,5 kV defined in		
5.5.2.1	Norway			N/A
	After the	e 3rd paragraph the following is added:		
	required voltage			
5.5.6	Finland	, Norway and Sweden		N/A

IEC62368 1E - ATTACHMENT

Attaoriii	10111 110.1	12002300_12	ATTAOTIMENT	
Clause	Require	ment + Test	Result - Remark	Verdict
	To the e	nd of the subclause the following is added:		
	basic in	is used as basic safeguard or bridging sulation in class I pluggable equipment shall comply with G.10.1 and the test of		
5.6.1	Denmar	k		N/A
	Due to noutlets of with high outlets the equipment of the state of the	tion:		
		ark an existing 13 A socket outlet can be d by a 20 A fuse.		
5.6.4.2.1	Ireland	and United Kingdom		N/A
	the follo	e indent for pluggable equipment type A , wing is added: otective current rating is taken to be 13 A, ag the largest rating of fuse used in the olug.		
				<u> </u>

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Denmark

France

the following is added:

instead of 16 A.

Norway

After the indent for pluggable equipment type A,

- in certain cases, the **protective current rating** of the circuit supplied from the mains is taken as 20 A

To the second paragraph the following is added:

The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm² to 1,5 mm² in cross-sectional area.

To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as **class I equipment**. See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.

To the end of the subclause the following is added:

The installation instruction shall be affixed to the

5.6.4.2.1

5.6.5.1

5.6.8

5.7.6

Attachment No.1

N/A

N/A

N/A

N/A

ent No.1	IEC62368_1E - A	ATTACHMENT	
Require	ment + Test	Result - Remark	Verdict
1 .		1	
exceeds	THE HITHES OF 3,3 THA A.C. OF TO THA G.C.		
Denmar	k		N/A
			IN/A
	•		
			N/A
To the o	nd of the subclause the following is added:		
and ther	e is normally no equipotential bonding		
Thay be	provided by a retailer, for example.		
line equi	primerit is interided to be ased in:		
cable, m	ay in some circumstances create a fire		
11)"	y range (garvarno lociato), coe En con Ec		
NOTE In N	Norway due to regulation for CATV-installations, and in		
Sweden, a	galvanic isolator shall provide electrical insulation		
be acce	oted in Norway):		
"Appara	ter som er koplet til beskyttelsesjord via		
	Penmar To the end The war current in protective Norway To the end The screen normally and there system in the reformation installation cable distributed in the requirement of the second to a cable, may be similar in language the equirement of the system in the build connection and to a cable, may be system in the system	equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c. Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA. Norway and Sweden To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in: "Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing — and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-	Requirement + Test Requirement if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c. Denmark To the end of the subclause the following is added: The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA. Norway and Sweden To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example. The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in: "Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing—and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)" NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 8 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):

Attachme	ent No.1	IEC62368_1E - /	ATTACHMENT	
Clause	Require	ment + Test	Result - Remark	Verdict
	utstyr – nett, kar For å un apparate	g og/eller via annet jordtilkoplet og er tilkoplet et koaksialbasert kabel-TV n forårsake brannfare. Ingå dette skal det ved tilkopling av er til kabel-TV nett installeres en k isolator mellom apparatet og kabel-TV		
	"Appara väggutta samtidig medfőra anslutnii	ion to Swedish: ter som är kopplad till skyddsjord via jordat ag och/eller via annan utrustning och tt är kopplad till kabel-TV nät kan i vissa fall risk för brand. För att undvika detta skall vid ng av apparaten till kabel-TV nät galvanisk finnas mellan apparaten och kabel-TV		
8.5.4.2.3		Kingdom		N/A
	paragrap			
	requiren	rgency stop system complying with the nents of IEC 60204-1 and ISO 13850 is where there is a risk of personal injury.		
B.3.1 and B.4		and United Kingdom owing is applicable:		N/A
	circuits i equipme B.4 shal circuit bi rated 32 tests, su as an interest	ect against excessive currents and short- in the primary circuit of direct plug-in ent, tests according to Annexes B.3.1 and I be conducted using an external miniature reaker complying with EN 60898-1, Type B, A. If the equipment does not pass these hitable protective devices shall be included tegral part of the direct plug-in equipment , requirements of Annexes B.3.1 and B.4 are		
G.4.2	Denmar	·k		N/A
G.4.2		nd of the subclause the following is added:		IN/A
	Supply o	cords of single phase appliances having a rrent not exceeding 13 A shall be provided ug according to DS 60884-2-D1:2011.		
	0	LEGUIDATENT III III III III III		

CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact

Attachme	ent No.1	IEC62368_1E - /	ATTACHMENT	
Clause	Require	ment + Test	Result - Remark	Verdict
Ciause	is requir provided sheet DI If a single CURRE equipmed plug, this standard 60309-2 Mains see Class II be in accompliand or DKA Mains see compliand or DKA Mains see compliand Standard or DK 1- Justifica	ed according to the wiring rules shall be with a plug in accordance with standard K 2-1a or DK 2-5a. de-phase equipment having a RATED NT exceeding 13 A or if a polyphase ent is provided with a supply cord with a splug shall be in accordance with the disheets DK 6-1a in DS 60884-2-D1 or EN ocket outlets intended for providing power to apparatus with a rated current of 2,5 A shall cordance DS 60884-2-D1:2011 standard KA 1-4a. For each outlets with earth shall be in ance with Standard Sheet DKA 1-3a 1-1c. Docket-outlets with earth shall be in ance with DS 60884-2-D1:2011 disheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a 7a		Verdict
G.4.2	To the e The plug assesse 12.08, 1 the test 125 °C. Insulate	Aingdom Ind of the subclause the following is added: In part of direct plug-in equipment shall be a d to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 2.12, 12.13, 12.16, and 12.17, except that of 12.17 is performed at not less than where the metal earth pin is replaced by an ad Shutter Opening Device (ISOD), the nents of clauses 22.2 and 23 also apply.		Р
G.7.1	To the fi Equipme cord and socket of flexible of plug' in a (Safety)	rst paragraph the following is added: ent which is fitted with a flexible cable or d is designed to be connected to a mains onforming to BS 1363 by means of that cable or cord shall be fitted with a 'standard accordance with the Plugs and Sockets etc. Regulations 1994, Statutory Instrument of 1768, unless exempted by those		N/A

Attachm	ent No.1	IEC62368_1E -	ATTACHMENT	
Clause	Require	ment + Test	Result - Remark	Verdict
	means an	andard plug" is defined in SI 1768:1994 and essentially approved plug conforming to BS 1363 or an approved		
G.7.1	Ireland To the fi	rst paragraph the following is added:		N/A
	Apparati shall be Statutory Convers 1997. S. standard	us which is fitted with a flexible cable or cord provided with a plug in accordance with y Instrument 525: 1997, "13 A Plugs and ion Adapters for Domestic Use Regulations: I. 525 provides for the recognition of a I of another Member State which is nt to the relevant Irish Standard		
G.7.2	Ireland	and United Kingdom		N/A

To the first paragraph the following is added:

up to and including 13 A.

A power supply cord with a conductor of 1,25 $\rm mm^2$ is allowed for equipment which is rated over 10 A and

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

ZD	IEC and CENELEC CODE DESIGNATIONS FOR FLEXIBLE CORDS (EN)	_	
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Attachmen	t No.1	IEC62368_1E - ATTACHMENT	
Clause	Requirement + Test	Result - Remark	Verdict

Type of flexible cord	Code de	esignations
	IEC	CENELEC
PVC insulated cords	L	
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility	•	
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03 ₹V4-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-I
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-I

Attachment No.2

Product Photos

Details of: Overview for model YFTAC08-35W



Details of: Overview for model YFTAC08-35W



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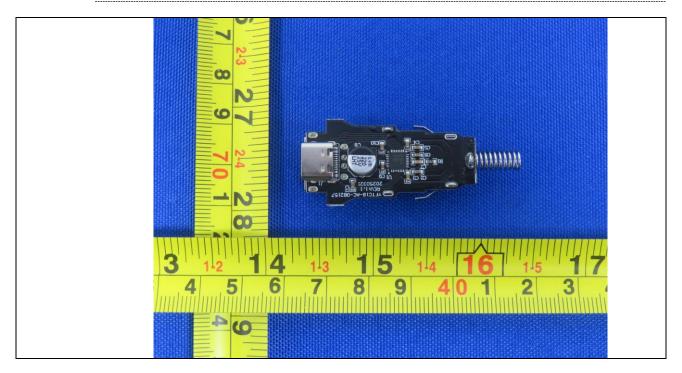
Attachment No.2

Product Photos

Details of: Overview for model YFTAC08-35W



Details of: Internal view for model YFTAC08-35W



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Attachment No.2

Product Photos

Details of: Internal view for model YFTAC08-35W



- End of report -

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