

## TEST REPORT IEC 62368-1

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

Report Number. .....: AOC250630006S

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 86 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 four seasons electronic co., LTD

Address .....: 501, Building B, Jinshanlong Industrial Park, No.1 Xintang Village,

Jutang Community, Fucheng Street, Longhua District, Shenzhen

City, Guangdong Province (518000)

**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:	Power	Adapter				
Trad	e Mark::	N/A					
Man	ufacturer:	501, Budang	nen four seasons electronic co uilding B, Jinshanlong Industria Community, Fucheng Street, I uangdong Province (518000)	al Park, No.1 Xintang Village,			
Mod	el/Type reference:	DYK00	051000, HSY-050600				
Ratings See i			odel list in page of 7				
Resp	ponsible Testing Laboratory (as ap	plicabl	e), testing procedure and tes	sting location(s):			
$\boxtimes$	Testing Laboratory:		Shenzhen AOCE Electronic T	echnology Service Co., Ltd			
Test	ing location/ address	:	Shenzhen AOCE Electronic Technology Service Co., Ltd Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China				
Test	ed by (name, function, signature) .	:	Bill Hu Technical Engineer	Bill Hu Robin. Lin			
Appr	roved by (name, function, signatur	e):	Robin Liu Technical Manager	Robin. Lin			
	Testing procedure: CTF Stage 1:						
Tooti							
	ing location/ address						
Appr	roved by (name, function, signatur	e):	Fested by (name, function, signature): Approved by (name, function, signature):				
		<del>-,</del>					
	Testing procedure: CTF Stage 2:						
Test	Testing procedure: CTF Stage 2:	,					
		:					
Test	ing location/ address	:					
Test Witn	ing location/ addressed by (name + signature)	: : re).:					
Test Witn	ing location/ addressed by (name + signature)essed by (name, function, signaturoved by (name, function, signatur	: : re).:					
Test Witn	ing location/ addressed by (name + signature)essed by (name, function, signaturoved by (name, function, signaturoved by (name, function, signaturoved).	: : re).:					
Teste Witn Appr	ing location/ addressed by (name + signature)essed by (name, function, signature) to yet (name, function, signature)	: re).:					
Teste Witn Appr	ing location/ addressed by (name + signature)essed by (name, function, signature)  Testing procedure: CTF Stage 3: Testing procedure: CTF Stage 4: ing location/ address	: re).: e):					
Witn Appr	ing location/ addressed by (name + signature)essed by (name, function, signature) to yet (name, function, signature)	: re).:					

Supervised by (name, function, signature) :					
List of Attachments (including a total number of pages in each attachment): Attachment No.1: National deviation Attachment No.2: Photo document.					
Summary of testing:					
Tests performed (name of test and test clause):	Testing location:				
- IEC 62368-1:2018	Ltd Room 202, 2nd Floor, No	, Fuhai Street, Baoan District,			
Summary of compliance with National Differences DIFFERENCES AND NATIONAL DIFFERENCES.  The product fulfils the requirements of EN IEC					
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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.

Power Adapter DYK0051000

Input: 100-240V~, 50/60Hz, 0.15A

Output: DC 5V, 1A



Manufacturer: Shenzhen four seasons electronic co., LTD

Made in China

Power Adapter HSY-050600

Input: 100-240V~, 50/60Hz, 0.15A

Output: DC 5V, 0.6A



Manufacturer: Shenzhen four seasons electronic co., LTD

Made in China

Notes:

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Test item particulars:	
Product group:	
Classification of use by:	☐ Ordinary person ☐ Children likely present
	☐ Instructed person
	Skilled person
Supply connection:	<ul><li>✓ AC mains</li><li>✓ DC mains</li><li>✓ not mains connected:</li></ul>
	ES1 ES2 ES3
Supply tolerance:	
	+20%/-15%
	None
Supply connection – type:	pluggable equipment type A -
	non-detachable supply cord
	appliance coupler
	<ul><li>☑ direct plug-in</li><li>☐ pluggable equipment type B -</li></ul>
	non-detachable supply cord
	appliance coupler
	permanent connection
	mating connector
	other: Not directly connected to the mains
Considered current rating of protective device	☐ 16A for building
:	Location: 🖂 building 🖂 equipment
Equipment mobility:	<ul><li>N/A</li><li> movable</li></ul>
Equipment mobility	☐ direct plug-in ☐ stationary ☐ for building-in
	wall/ceiling-mounted SRME/rack-mounted
	other:
Overvoltage category (OVC)::	
	OVC IV
Class of equipment:	☐ Class I ☐ Class III ☐ Class III ☐ Not classified ☐ other:
Special installation location:	N/A □ restricted access area
opecial installation location	outdoor location
	other:
Pollution degree (PD)::	☐ PD 1
Manufacturer's specified T <sub>ma</sub> :	35 °C
IP protection class:	
Power systems:	☑ TN ☐ TT ☐ IT V <sub>L-L</sub>
	not AC mains
Altitude during operation (m)::	
Altitude of test laboratory (m):	

Mass of equipment (kg):	Approx. 0.04 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:	2025-05-27
Date (s) of performance of tests:	2025-05-27 to 2025-06-30
General remarks:	
The tested sample(s) and the sample information are	
"(See Enclosure #)" refers to additional information "(See appended table)" refers to a table appended to	
	al Differences and Special National Conditions, if any,
are in the Appendix to the main body of this TRF	
Throughout this report a $\square$ comma / $\boxtimes$ point is	•
The test report only allows to be revised only within 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	☐ Yes
includes more than one factory location and a declaration from the Manufacturer stating that the	Not applicable     ■
sample(s) submitted for evaluation is (are)	
representative of the products from each factory	
has been provided:	
When differences exist; they shall be identified in	n the General product information section.
Name and address of factory (ies):	Shenzhen four seasons electronic co., LTD
Traine and address of factory (les)	501, Building B, Jinshanlong Industrial Park, No.1
	Xintang Village, Jutang Community, Fucheng Street,
	Longhua District, Shenzhen City, Guangdong Province
	(518000)
General product information and other remarks	:
1. This apparatus is Power Adapter (direct plug-in t	ype) used for information technology equipment or
audio/video equipment.	
	additionally been assessed for suitability up to 2000 m.
<ul><li>3. The output ports are in accordance with the PS2</li><li>4. All tests were performed on the model DYK0051</li></ul>	
T All lesis were performed on the model DTK0051	000.

circuit principle are the same. See list of model differences for details.

5. All models are the same except for the model name and output rating, the electrical safety structure and

Model list				
Model name	Input	Output	Type of plug used	
DYK0051000	100-240V~, 50/60Hz, 0.15A	DC 5V, 1A	EU	
HSY-050600	100-240V~, 50/60Hz, 0.15A	DC 5V, 0.6A	EU	

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	
ES3: All circuits expect for output circuits	Ordinary	N/A	N/A	Enclosure, see 5.3.2, 5.4.2, 5.4.3, 5.5.3, 5.5.4.	
ES1: Output terminals	Ordinary	N/A	N/A	N/A	
6	Electrically-caused fire				
Class and Energy Source	Material part		Safeguards		
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 <sup>st</sup> S	2 <sup>nd</sup> S	
PS3	Enclosure	See 6.3	Min.V-0	N/A	
PS3	РСВ	See 6.3	Min.V-1	N/A	
PS3	Internal wiring	See 6.3	See 6.5 (Equipment safeguards, rated VW-1)	N/A	
PS3	Other combustible components / materials	See 6.3	See 6.4.5, 6.4.6	N/A	
PS2	All combustible material for output terminal	See 6.4	Output terminal material rated V-1 or better	N/A	
7	Injury caused by hazardous s	ubstances			
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	

N/A

Ordinary

Radiation

TS1: All accessible parts

10

N/A

N/A

Class and Energy Source	Body Part	Safeguards		
(e.g. RS1: PMP sound output)	(e.g., Ordinary)	В	S	R
N/A	N/A	N/A	N/A	N/A
Supplementary Information:				
"B" – Basic Safeguard; "S" – Sup	pplementary Safeguard; "R" -	Reinforced Safe	guard	
	ENERGY SOURCE DIA	AGRAM		
<b>Optional</b> . 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				
	ES 🛭 PS 🖾 MS	⊠ TS □ R	s	

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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 Annex T.2 and T.4)	Р
4.4.3.3	Drop tests	(See Clause T.7)	Р
4.4.3.4	Impact tests		N/A
4.4.3.5	Internal accessible safeguard tests		N/A
4.4.3.6	Glass impact tests		N/A
4.4.3.7	Glass fixation tests		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		Р
4.4.3.10	Accessibility, glass, safeguard effectiveness	All safeguard remains effective	Р

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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	General	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	Fixing of conductors		Р
	Fix conductors not to defeat a safeguard		Р
	Compliance is checked by test:	(See Clause T.2)	Р
4.7	Equipment for direct insertion into mains socket-	-outlets	Р
4.7.2	Mains plug part complies with relevant standard:	EN 50075	Р
4.7.3	Torque (Nm)	0.037Nm	Р
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 conduc	ctive object	Р
4.10	Component requirements		Р
4.10.1	Disconnect Device	Direct plug-in equipment	Р
4.10.2	Switches and relays	No such switches and relay used.	N/A

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Clause	Requirement + Test		Result - Remark	Verdict

5	ELECTRICALLY-CAUSED INJURY		Р
5.2	Classification and limits of electrical energy sources		
5.2.2	ES1, ES2 and ES3 limits	(See appended table 5.2)	Р
5.2.2.2	Steady-state voltage and current limits:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits		N/A
5.2.2.4	Single pulse limits	No single pulse introduced	N/A
5.2.2.5	Limits for repetitive pulses	No repetitive pulses introduced	N/A
5.2.2.6	Ringing signals	No ringing signals.	N/A
5.2.2.7	Audio signals	No audio signals.	N/A
5.3	Protection against electrical energy sources		Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons		Р
5.3.1 a)	Accessible ES1/ES2 derived from ES2/ES3 circuits		Р
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	Only ES1 parts are accessible by ordinary person.	Р
	Accessibility to outdoor equipment bare parts	No outdoor equipment.	N/A
5.3.2.2	Contact requirements		Р
	Test with test probe from Annex V	No bare parts at ES2 or ES3 basic safeguard could be accessed by operator.	_
5.3.2.2 a)	Air gap – electric strength test potential (V)		N/A
5.3.2.2 b)	Air gap – distance (mm):	>0.2	Р
5.3.2.3	Compliance		Р
5.3.2.4	Terminals for connecting stripped wire	No such structure	N/A
5.4	Insulation materials and requirements		Р
5.4.1.2	Properties of insulating material		Р
5.4.1.3	Material is non-hygroscopic		Р
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
5.4.1.5	Pollution degrees	PD2	Р
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound	Pollution degree 2 is applied.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.5.3	Thermal cycling test		N/A
5.4.1.6	Insulation in transformers with varying dimensions		N/A
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage:	(See appended table 5.4.1.8)	Р
5.4.1.9	Insulating surfaces	Considered.	Р
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		Р
5.4.1.10.2	Vicat test		N/A
5.4.1.10.3	Ball pressure test:	(See appended table 5.4.1.10.3)	Р
5.4.2	Clearances	(see appended table 5.4.2, 5.4.3)	Р
5.4.2.1	General requirements		Р
	Clearances in circuits connected to AC Mains, Alternative method		Р
5.4.2.2	Procedure 1 for determining clearance	(See appended table 5.4.2, 5.4.3)	Р
	Temporary overvoltage:	2000Vpeak.	_
5.4.2.3	Procedure 2 for determining clearance	(See appended table 5.4.2, 5.4.3)	Р
5.4.2.3.2.2	a.c. mains transient voltage:	2500Vpeak.	_
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	Not such procedure used.	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	Up to 2000m, Factor 1.0	N/A
5.4.2.6	Clearance measurement	(See appended table 5.4.2, 5.4.3)	Р
5.4.3	Creepage distances	(See appended table 5.4.2, 5.4.3)	Р
5.4.3.1	General	See below.	Р
5.4.3.3	Material group	Illa or IIIb	

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.3.4	Creepage distances measurement:	(See appended table 5.4.2, 5.4.3)	Р
5.4.4	Solid insulation		Р
5.4.4.1	General requirements		Р
5.4.4.2	Minimum distance through insulation	(See appended table 5.4.4.2)	Р
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	No such construction within the EUT	N/A
5.4.4.6	Thin sheet material		Р
5.4.4.6.1	General requirements	The thin sheet materials of polyester tape used in transformer.	Р
5.4.4.6.2	Separable thin sheet material	Two layers of insulating tape provided as double/reinforced insulation and each layer passed the electric strength test for reinforced insulation. See appended Table 5.4.9.	Р
	Number of layers (pcs)	2-layer min.	Р
5.4.4.6.3	Non-separable thin sheet material	No 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	See G.5.3 and G.6.1	Р
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 <sub>R</sub> :	(See appended Tables 5.4.4.9)	N/A
5.4.5	Antenna terminal insulation	No antenna is used.	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

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.6	Insulation of internal wire as part of supplementary safeguard	No such insulation of internal wire as part of supplementary insulation	N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning		Р
	Relative humidity (%), temperature (°C), duration (h)	95%, 40°C, 120h (Customer requirement)	_
5.4.9	Electric strength test	(See appended table 5.4.9)	Р
5.4.9.1	Test procedure for type test of solid insulation:	Method 1 used.	Р
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
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 <sub>op</sub> (V):		_
	Nominal voltage U <sub>peak</sub> (V):		_
	Max increase due to variation ΔU <sub>sp</sub> :		_
	Max increase due to ageing ΔUsa:		_
5.4.11.3	Test method and compliance:		N/A
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid:		N/A
5.4.12.3	Compatibility of an insulating liquid:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.12.4	Container for insulating liquid:		N/A
5.5	Components as safeguards	I.	Р
5.5.1	General		Р
5.5.2	Capacitors and RC units	Approved Y capacitor (See appended table 4.1.2)	Р
5.5.2.1	General requirement	Y capacitors complied with clause annex G.11.	Р
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:		N/A
5.5.3	Transformers	(See Annex G.5.3)	Р
5.5.4	Optocouplers		N/A
5.5.5	Relays	No such relay used as safeguard	N/A
5.5.6	Resistors		N/A
5.5.7	SPDs	No such varistor used	N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable:		N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment		N/A
	RCD rated residual operating current (mA):		_
5.6	Protective conductor	1	N/A
5.6.2	Requirement for protective conductors	Class II 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

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Clause	Requirement + Test	Result - Remark	Verdict
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 pro	otective conductor current	Р
5.7.2	Measuring devices and networks		Р
5.7.2.1	Measurement of touch current	(See appended table 5.7.4)	Р
5.7.2.2	Measurement of voltage	(See appended table 5.7.4)	Р
5.7.3	Equipment set-up, supply connections and earth connections		Р
5.7.4	Unearthed accessible parts:	Touch current at unearthed accessible conductive parts is not exceeding ES1 limits. (See appended table 5.7.4)	Р
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

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Clause	Requirement + Test	Result - Remark	Verdict	
	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		Р
6.2.3	Classification of potential ignition sources	(See appended table 6.2.2)	Р
6.2.3.1	Arcing PIS:	(See appended table 6.2.3.1)	Р
6.2.3.2	Resistive PIS:	(See appended table 6.2.3.2)	Р
6.3	Safeguards against fire under normal operating an conditions	d abnormal operating	Р
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
	Combustible materials outside fire enclosure:	V-0	Р
6.4	Safeguards against fire under single fault condition	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

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Clause	Requirement + Test	Result - Remark	Verdict
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	All component in PS3 complies with clause (V-0 class material) complies with 6.4.8, see appended table 4.1.2 and annex G.	Р
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	Fire barrier min. V-0.	Р
6.4.8	Fire enclosures and fire barriers	Equipment enclosure was evaluated as a fire enclosure, internal insulating sheet was evaluated as a fire barrier.	Р
6.4.8.2	Fire enclosure and fire barrier material properties	See the following details.	Р
6.4.8.2.1	Requirements for a fire barrier		N/A
6.4.8.2.2	Requirements for a fire enclosure	Fire enclosure min. V-0.	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	See below	Р
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings are provided.	Р
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top openings and properties	No openings	N/A
	Openings dimensions (mm):		N/A
6.4.8.3.4	Bottom openings and properties	No openings	N/A
	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	No openings	N/A
	Openings dimensions (mm):		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c)	No such door or cover can be opened by ordinary persons.	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 min. V-0	Р
6.4.9	Flammability of insulating liquid		N/A
6.5	Internal and external wiring		Р
6.5.1	General requirements	The material of VW-1 on internal wiring were considered compliance equal to equivalent to IEC/TS 60695-11-21 relevant standards	Р
6.5.2	Requirements for interconnection to building wiring		Р
6.5.3	Internal wiring size (mm²) for socket-outlets:		N/A
6.6 Safeguards against fire due to the connection to additional equipment		Р	

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	
7.2	Reduction of exposure to hazardous substances	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		Р
8.2	Mechanical energy source classifications		Р
8.3	Safeguards against mechanical energy sources		Р
8.4	Safeguards against parts with sharp edges and corners		Р
8.4.1	Safeguards		N/A
	Instructional Safeguard:		N/A
8.4.2	Sharp edges or corners	Accessible edges and corners of the equipment are rounded and are classified as MS1.	Р
8.5	Safeguards against moving parts		N/A

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

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Clause	Requirement + Test	Result - Remark	Verdict
8.6	Stability of equipment		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 struct	ture	N/A
8.7.1	Mount means type		N/A
8.7.2	Test methods		N/A
	Test 1, additional downwards force (N):		N/A
	Test 2, number of attachment points and test force (N)		N/A
	Test 3 Nominal diameter (mm) and applied torque (Nm)		N/A
8.8	Handles strength		N/A
8.8.1	General		N/A
8.8.2	Handle strength test		N/A
	Number of handles:		_
	Force applied (N)		_
8.9	Wheels or casters attachment requirements		N/A
8.9.2	Pull test		N/A
8.10	Carts, stands and similar carriers		N/A
8.10.1	General		N/A
8.10.2	Marking and instructions:		N/A
8.10.3	Cart, stand or carrier loading test		N/A
	Loading force applied (N):		N/A
8.10.4	Cart, stand or carrier impact test		N/A

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Requirement + Test	Result - Remark	Verdict
Mechanical stability		N/A
Force applied (N)		_
Thermoplastic temperature stability		N/A
Mounting means for slide-rail mounted equipment	: (SRME)	N/A
General		N/A
Requirements for slide rails		N/A
Instructional Safeguard:		N/A
Mechanical strength test		N/A
Downward force test, force (N) applied:		N/A
Lateral push force test		N/A
Integrity of slide rail end stops		N/A
Compliance		N/A
Telescoping or rod antennas		N/A
Button/ball diameter (mm)		_
	ı	
THERMAL BURN INJURY		Р
Thermal energy source classifications		Р
Touch temperature limits		Р
		Г
Touch temperatures of accessible parts:	All accessible surfaces are classified as TS1 (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	P
Touch temperatures of accessible parts  Test method and compliance	classified as TS1 (See appended table 5.4.1.4, 9.3,	
,	classified as TS1 (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6) (See appended table 5.4.1.4,	Р
Test method and compliance	classified as TS1 (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6) (See appended table 5.4.1.4,	P P
Test method and compliance  Safeguards against thermal energy sources	classified as TS1 (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6) (See appended table 5.4.1.4,	P P
Test method and compliance  Safeguards against thermal energy sources  Requirements for safeguards	classified as TS1 (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6) (See appended table 5.4.1.4,	P P P
Test method and compliance  Safeguards against thermal energy sources  Requirements for safeguards  Equipment safeguard	classified as TS1 (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6) (See appended table 5.4.1.4,	P P P
Test method and compliance  Safeguards against thermal energy sources  Requirements for safeguards  Equipment safeguard  Instructional safeguard	classified as TS1 (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6) (See appended table 5.4.1.4,	P P P N/A
Test method and compliance  Safeguards against thermal energy sources  Requirements for safeguards  Equipment safeguard  Instructional safeguard	classified as TS1 (See appended table 5.4.1.4, 9.3, B.1.5, B.2.6) (See appended table 5.4.1.4,	P P P N/A N/A
	Requirement + Test  Mechanical stability  Force applied (N)	Requirement + Test  Mechanical stability  Force applied (N)

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Clause	Requirement + Test	Result - Remark	Verdict

10	RADIATION	
10.2	Radiation energy source classification	N/A
10.2.1	General classification	N/A
	Lasers:	
	Lamps and lamp systems:	
	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 and lamp systems (including LED types)	N/A
10.4.1	General requirements	N/A
	Instructional safeguard provided for accessible radiation level needs to exceed	N/A
	Risk group marking and location:	N/A
	Information for safe operation and installation	N/A
10.4.2	Requirements for enclosures	N/A
	UV radiation exposure:	N/A
10.4.3	Instructional safeguard:	N/A
10.5	Safeguards against X-radiation	N/A
10.5.1	Requirements	N/A
	Instructional safeguard for skilled persons:	
10.5.3	Maximum radiation (pA/kg):	_
10.6	Safeguards against acoustic energy sources	N/A
10.6.1	General	N/A
10.6.2	Classification	N/A
	Acoustic output L <sub>Aeq,T</sub> , dB(A):	N/A
	Unweighted RMS output voltage (mV):	N/A
	Digital output signal (dBFS)	N/A
10.6.3	Requirements for dose-based systems	N/A
10.6.3.1	General requirements	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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 <sub>Aeq,T</sub> , dB(A)		N/A
10.6.6.3	Cordless listening devices		N/A
	Max. acoustic output L <sub>Aeq,T</sub> , dB(A)		N/A

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Р
B.1	General		Р
B.1.5	Temperature measurement conditions	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
B.2	Normal operating conditions		Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
	Audio Amplifiers and equipment with audio amplifiers:		N/A
B.2.3	Supply voltage and tolerances	+10% and -10% for a.c. mains.	Р
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 tables B.3, B.4)	Р
B.3.2	Covering of ventilation openings	No ventilation openings.	N/A
	Instructional safeguard:		N/A
B.3.3	DC mains polarity test	The equipment is not connected to a D.C. mains.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
B.3.4	Setting of voltage selector	No voltage selector	N/A
B.3.5	Maximum load at output terminals	(See appended tables 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. (See appended tables B.3, B.4)	Р
B.4	Simulated single fault conditions		Р
B.4.1	General		Р
B.4.2	Temperature controlling device	No temperature controlling device	N/A
B.4.3	Blocked motor test	No motors	N/A
B.4.4	Functional insulation	(See appended tables B.3, B.4)	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended tables B.3, B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended tables 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 tables B.3, B.4)	Р
B.4.6	Short circuit or disconnection of passive components	(See appended tables 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 tables 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

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

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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	See copy of marking plate	Р
F.3.3.1	Equipment with direct connection to mains	See copy of marking plate	Р
F.3.3.2	Equipment without direct connection to mains		N/A
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:	See copy of marking plate	Р
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	See below.	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 resistors is located within the equipment and not replaceable by an ordinary person or an instructed person.  The fuse resistors marking is marked on PCB near fuse: RF1 4.7R/ 1/2W	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

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Clause	Requirement + Test	Result - Remark	Verdict
F.3.6	Equipment markings related to equipment classification		Р
F.3.6.1	Class I equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal:		N/A
F.3.6.1.2	Protective bonding conductor terminals:		N/A
F.3.6.2	Equipment class marking:	See copy of marking plate.	Р
F.3.6.3	Functional earthing terminal marking:		N/A
F.3.7	Equipment IP rating marking:	IPX0	N/A
F.3.8	External power supply output marking:		N/A
F.3.9	Durability, legibility and permanence of marking	All markings required are easily discernible under normal lighting conditions.	Р
F.3.10	Test for permanence of markings	After rubbing test by water and petroleum spirit, the marking still legible; it is not easily possible to remove the marking plate and show no curling.	Р
F.4	Instructions		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

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Clause	Requirement + Test	Result - Remark	Verdict
	a)Graphic symbols used on equipment		N/A
	b)  Permanently connected equipment not provided with all-pole mains switch		N/A
	c)		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

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Clause	Requirement + Test	Result - Remark	Verdict
G.3.3	PTC thermistors		N/A
G.3.4	Overcurrent protection devices	Approved fuse is used (See appended table 4.1.2)	Р
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions:		N/A
G.4	Connectors		N/A
G.4.1	Spacings		N/A
G.4.2	Mains connector configuration:		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A
G.5	Wound components		Р
G.5.1	Wire insulation in wound components	Approved TIW used for secondary winding of T1	Р
G.5.1.2	Protection against mechanical stress	Physical separation is provided (by insulating tube)	Р
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	See below.	Р
G.5.3.1	Compliance method:	The transformers meet the requirements given in G.5.3.2 and G.5.3.3.	Р
	Position	T1	Р
	Method of protection:	Over current protection by circuit design.	Р
G.5.3.2	Insulation	Primary windings and secondary windings are separated by Reinforced insulation.	Р

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Clause	Requirement + Test	Result - Remark	Verdict

	Protection from displacement of windings:	By bobbin and insulating tape	_
G.5.3.3	Transformer overload tests	(See appended tables B.3, B.4)	Р
G.5.3.3.1	Test conditions	Tested in the complete equipment.	Р
G.5.3.3.2	Winding temperatures	(See appended table B.3, B.4)	Р
G.5.3.3.3	Winding temperatures - alternative test method		N/A
G.5.3.4	Transformers using FIW		N/A
G.5.3.4.1	General		N/A
	FIW wire nominal diameter:		_
G.5.3.4.2	Transformers with basic insulation only		N/A
G.5.3.4.3	Transformers with double insulation or reinforced insulation:		N/A
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core		N/A
G.5.3.4.5	Thermal cycling test and compliance		N/A
G.5.3.4.6	Partial discharge test		N/A
G.5.3.4.7	Routine test		N/A
G.5.4	Motors		N/A
G.5.4.1	General requirements		N/A
G.5.4.2	Motor overload test conditions		N/A
G.5.4.3	Running overload test		N/A
G.5.4.4.2	Locked-rotor overload test		N/A
	Test duration (days):		_
G.5.4.5	Running overload test for DC motors		N/A
G.5.4.5.2	Tested in the unit		N/A
G.5.4.5.3	Alternative method		N/A
G.5.4.6	Locked-rotor overload test for DC motors		N/A
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

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Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.9	Series motors		N/A
	Operating voltage:		
G.6	Wire Insulation		Р
G.6.1	General	Approved triple insulated wires comply with Annex J.	Р
G.6.2	Enamelled winding wire insulation	Solvent-based enamel winding is not considered basic insulation.	N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements		N/A
	Туре:		_
G.7.2	Cross sectional area (mm² or AWG):		N/A
G.7.3	Cord anchorages and strain relief for non-detachable power supply cords		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N):		N/A
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material		N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Test method and compliance		N/A
	Overall diameter or minor overall dimension, 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		Р

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Clause	Requirement + Test	Result - Remark	Verdict
G.8.1	General requirements	Approved varistors used. (See appended table 4.1.2)	Р
G.8.2	Safeguards against fire		N/A
G.8.2.1	General		N/A
G.8.2.2	Varistor overload test		N/A
G.8.2.3	Temporary overvoltage test		N/A
G.9	Integrated circuit (IC) current limiters		N/A
G.9.1	Requirements		N/A
	IC limiter output current (max. 5A):		_
	Manufacturers' defined drift:		_
G.9.2	Test Program		N/A
G.9.3	Compliance		N/A
G.10	Resistors		N/A
G.10.1	General		N/A
G.10.2	Conditioning		N/A
G.10.3	Resistor test		N/A
G.10.4	Voltage surge test		N/A
G.10.5	Impulse test		N/A
G.10.6	Overload test		N/A
G.11	Capacitors and RC units		Р
G.11.1	General requirements	The Y-Capacitor (CY1) are used as safeguard and complied with IEC/EN 60384-14:2013 (See appended table 4.1.2).	Р
G.11.2	Conditioning of capacitors and RC units		Р
G.11.3	Rules for selecting capacitors		Р
G.12	Optocouplers		N/A
	Optocouplers comply with IEC 60747-5-5 with specifics		N/A
	Type test voltage V <sub>ini,a</sub> :		_
	Routine test voltage, V <sub>ini, b</sub> :		_
G.13	Printed boards		Р
G.13.1	General requirements		Р

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Clause	Requirement + Test	Result - Remark	Verdict
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
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:		_

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Clause	Requirement + Test	Result - Remark	Verdict
0.40.0	To a series from the first		L N1/A
G.16.3	Capacitor discharge test		N/A
H	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General		N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz)		
H.3.1.2	Voltage (V):		_
H.3.1.3	Cadence; time (s) and voltage (V):		—
H.3.1.4	Single fault current (mA)::		_
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V):		N/A
J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		Р
J.1	General		Р
	Winding wire insulation:	Approved triple insulated wire used. (See appended table 4.1.2)	_
	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
<b>K.5</b>	Fail-safe Under single fault condition		N/A N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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		Р
L.1	General requirements	Direct plug-in equipment	Р
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single-phase equipment	The disconnect device disconnect both poles simultaneously.	Р
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
	Instructional safeguard:		N/A
М	EQUIPMENT CONTAINING BATTERIES AND 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

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Clause	Requirement + Test	Result - Remark	Verdict
	Overcharging of a rechargeable battery		N/A
	Excessive discharging		N/A
	Unintentional charging of a non-rechargeable battery		N/A
	Reverse charging of a rechargeable battery		N/A
M.3.3	Compliance		N/A
M.4	Additional safeguards for equipment containing a battery	portable secondary lithium	N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Requirements		N/A
M.4.2.2	Compliance :::		N/A
M.4.3	Fire enclosure:		N/A
M.4.4	Drop test of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation and procedure for the drop test		N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::		N/A
M.4.4.4	Check of the charge/discharge function		N/A
M.4.4.5	Charge / discharge cycle test		N/A
M.4.4.6	Compliance		N/A
M.5	Risk of burn due to short-circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Test method and compliance		N/A
M.6	Safeguards against short-circuits		N/A
M.6.1	External and internal faults		N/A
M.6.2	Compliance		N/A
M.7	Risk of explosion from lead acid and NiCd batteries	es	N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
	Calculated hydrogen generation rate:		N/A
M.7.2	Test method and compliance		N/A
	Minimum air flow rate, Q (m³/h):		N/A
M.7.3	Ventilation tests		N/A
M.7.3.1	General		N/A

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Clause	Requirement + Test Result - Remark	Verdict
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 batter with aqueous electrolyte	ies 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
N	ELECTROCHEMICAL POTENTIALS	N/A
	Material(s) used:	_
0	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES	Р
	Value of X (mm)	ordance
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS	
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):	

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Clause	Requirement + Test	Result - Remark	Verdict
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, T <sub>C</sub> (°C):		_
	Duration (weeks):		_
Q	CIRCUITS INTENDED FOR INTERCONNECTION W	ITH 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
	c) Regulating network limited output	(See appended table Q.1)	Р
	d) Overcurrent protective device limited output		N/A
	e) IC current limiter complying with G.9		N/A
Q.1.2	Test method and compliance:	(See appended 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:		_

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Clause	Requirement + Test	Result - Remark	Verdict

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	N/A
	Samples, material:	_
	Wall thickness (mm):	_
	Conditioning (°C):	_
	Test flame according to IEC 60695-11-5 with conditions as set out	N/A
	- Material not consumed completely	N/A
	- Material extinguishes within 30s	N/A
	- No burning of layer or wrapping tissue	N/A
S.2	Flammability test for fire enclosure and fire barrier integrity	N/A
	Samples, material:	
	Wall thickness (mm):	
	Conditioning (°C):	_
S.3	Flammability test for the bottom of a fire enclosure	N/A
S.3.1	Mounting of samples	N/A
S.3.2	Test method and compliance	N/A
	Mounting of samples:	_
	Wall thickness (mm):	
S.4	Flammability classification of materials	N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power exceeding 4 000 W	N/A
	Samples, material:	_
	Wall thickness (mm):	_
	Conditioning (°C):	_

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Clause	Requirement + Test	Result - Remark	Verdict

Т	MECHANICAL STRENGTH TESTS		Р
T.1	General		Р
T.2	Steady force test, 10 N:	(See appended table T.2)	Р
T.3	Steady force test, 30 N:		N/A
T.4	Steady force test, 100 N:	(See appended table T.4)	Р
T.5	Steady force test, 250 N:		N/A
T.6	Enclosure impact test	Direct plug-in equipment.	N/A
	Fall test		N/A
	Swing test		N/A
T.7	Drop test:	(See appended table T.7)	Р
T.8	Stress relief test::	(See appended table T.8)	Р
T.9	Glass Impact Test:		N/A
T.10	Glass fragmentation test		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 TUE 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 p	protected CRTs	N/A
U.3	Protective screen		N/A
V	DETERMINATION OF ACCESSIBLE PARTS		Р
V.1	Accessible parts of equipment		Р
V.1.1	General	Following the probes test specified in this annex Figure V.1, V.2, V.3 are suitable.	Р
V.1.2	Surfaces and openings tested with jointed test probes		Р
V.1.3	Openings tested with straight unjointed test probes		N/A
V.1.4	Plugs, jacks, connectors tested with blunt probe		Р
V.1.5	Slot openings tested with wedge probe		N/A
V.1.6	Terminals tested with rigid test wire		Р
V.2	Accessible part criterion		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

X	ALTERNATIVE METHOD FOR DETERMINING CLEA IN CIRCUITS CONNECTED TO AN AC MAINS NOT E V RMS)		N/A
	Clearance	(See appended table X)	N/A
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDOOR	ENCLOSURES	N/A
Y.1	General		N/A
Y.2	Resistance to UV radiation		N/A
Y.3	Resistance to corrosion		N/A
Y.3	Resistance to corrosion		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:		N/A
Y.3.2	Test apparatus		N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A
Y.3.4	Test procedure		N/A
Y.3.5	Compliance		N/A
Y.4	Gaskets		N/A
Y.4.1	General		N/A
Y.4.2	Gasket tests		N/A
Y.4.3	Tensile strength and elongation tests		N/A
	Alternative test methods		N/A
Y.4.4	Compression test		N/A
Y.4.5	Oil resistance		N/A
Y.4.6	Securing means		N/A
Y.5	Protection of equipment within an outdoor enclosu	re	N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		N/A
	Relevant tests of IEC 60529 or Y.5.3		N/A
Y.5.3	Water spray test		N/A
Y.5.4	Protection from plants and vermin		N/A
Y.5.5	Protection from excessive dust		N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment		N/A

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Clause	Requirement + Test	Result - Remark	Verdict		
Y.6	Mechanical strength of enclosures		N/A		
Y.6.1	General		N/A		
Y.6.2	Impact test:		N/A		

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Clause	Requirement + Test	Result - Remark	Verdict

5.2 T	ABLE: Classification	on of electrical en	ergy soui	rces			Р
Supply Voltage	Location (e.g. circuit	Test conditions		F	Parameters		ES
Voltage	designation)		U (V)	I (mA)	Type <sup>1)</sup>	Additional Info <sup>2)</sup>	Class
		Normal					ES3
264Vac	Primary circuits supplied by a.c.	Abnormal – see table B.3, B.4 for detail					ES Class
	mains supply	Single fault – see table B.3, B.4 for detail					
		Normal		Max. 0.062m Apk	SS		ES1
264Vac	Plastic enclosure to earth	Abnormal – see table B.3, B.4 for detail		Max. 0.062m Apk	SS		ES1
		Single fault – see table B.3, B.4 for detail		Max. 0.062m Apk	SS		ES1
		Normal	Max. 5.16Vdc		SS		ES1
264Vac	USB-A Output "+" to "-"	Abnormal – see table B.3, B.4 for detail	Max. 5.16Vdc		SS		ES1
		Single fault – see table B.3, B.4 for detail	Max. 5.16Vdc		SS		ES1
		Normal		Max. 0.154m Apk	SS		ES1
264Vac	Output terminal "+/-" to GND	Abnormal – see table B.3, B.4 for detail		Max. 0.154m Apk	SS		ES1
		Single fault – see table B.3, B.4 for detail		Max. 0.154m Apk	SS		ES1

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<sup>1)</sup> Type: Steady state (SS), Capacitance (CP), Single pulse (SP), Repetitive pulses (RP), etc.

<sup>2)</sup> Additional Info: Frequency, Pulse duration, Pulse off time, Capacitance value, etc.

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Clause	Requirement + Test	Result - Remark	Verdict

5.4.1.8	TABLE: Working voltage	ge measuremen	it			Р
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comm	ents
T1 Pin 1-7		223	352	23.79k		
T1 Pin 2-7		237	452	23.79k	Max. VPeal Max. VRMS	•
T1 Pin 4-7		222	350	23.79k		
T1 Pin 5-7		225	426	23.79k		
T1 Pin 1-6		223	386	23.79k		
T1 Pin 2-6		233	444	23.79k		
T1 Pin 4-6		222	358	23.79k		
T1 Pin 5-6		222	390	23.79k		
CY1 Primary	pin to secondary pin	pin 222 350 60		60		
Supplement	ary information: N/A				•	

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

5.4.1.10.3	TABLE: Ball pre	ssure test of thermoplas	tics				Р		
Allowed impression diameter (mm): ≤ 2 mm							_		
Object/Part No./Material Manufacturer/trademark			Thickness	(mm)	Test temperature (°C) Impressio diameter (m				
Plug holder SABIC INNOVATIVE PLASTICS B V		2.0		125		1.2			
Supplement	ary information: N	Supplementary information: N/A							

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance								Р	
Clearance (c creepage dis (cr) at/of/betv	tance	U <sub>p</sub> (V)	U <sub>rms</sub> (V)	Freq 1) (Hz)	Required cl (mm)	cl (mm)	E.S. <sup>2)</sup> (V)	Required cr (mm)	cr (mm)

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Clause	Requirement + Test	Result - Remark	Verdict

Basic / supplementary:	Basic / sunnlementary:								
		<u> </u>	T						
Different polarity of L/N before fuse resistors RF1	<420	<250	60	1.5	4.1		2.5	4.1	
Different polarity of fuse resistors RF1	<420	<250	60	1.5	3.1		2.5	3.1	
Reinforced:									
Primary trace to secondary trace under CY1	<420	<250	60	3.0	5.8		5.0	16.2	
Primary circuit to accessible enclosure	<420	<250	60	3.0	5.7		5.0	5.7	
Primary trace to secondary trace under T1	452	<250	23.79k	3.0	6.2		5.0	6.2	
Primary winding of T1 to secondary component (USB terminal)	452	<250	23.79k	3.0	7.3		5.0	7.3	
Core of T1 to secondary component	452	<250	23.79k	3.0	7.3		5.0	7.3	
Primary winding to secondary winding of T1	452	<250	23.79k	3.0	7.9		5.0	7.9	

Supplementary information:

- 1) Only for frequency above 30 kHz
- 2) Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)
- 3) For clearance and creepage did not describe above are far larger than limit above.

The secondary of T1 used triple insulated wire, core as primary of T1.

5.4.4.2	TABLE: Minimun	n distance through insul	ation			Р	
Distance through insulation (DTI) at/of		Peak voltage (V)	Insulation	• • • • • • • • • • • • • • • • • • •		sured DTI (mm)	
Bobbin of T1		452Vac	Reinforce	0.4 min. 0		nin. 0.5	
Plastic enclosure		452Vac	Reinforce	Reinforce 0.4		nin. 1.5	
Insulation tape		452Vac	Reinforce	2 layers min. 2 la		n. 2 layers	
Supplementary information: N/A							

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Clause	Requirement + Test	Result - Remark	Verdict

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

5.4.9	TABLE: Electric strength tests				Р
Test voltage	applied between:	Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No	
Basic/supple	ementary				
L to N (with	RF1 opened)	DC	2500VDC		No
Reinforced:				•	
L/N to output terminal		DC	4000VDC		No
L/N to plastic	enclosure wrapped with metal foil	DC	4000VDC		No
Primary to so	econdary of transformer T1	DC	4000VDC		No
Secondary to	core of transformer T1	DC	4000VDC		No
Insulation tape used in and around transformer T1 (single layer)		DC	4000VDC No		No
From Enclosure inside to Enclosure outside		DC	4000VDC		No
Supplement	ary information: N/A			•	

5.5.2.2	TABLE:	TABLE: Stored discharge on capacitors					
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	E	S Class
		-	1				
Supplement	•						
X-capacitors	sinstalled	for testing:					
□ bleeding	resistor ra	ating:					
□ ICX:							
1) Normal o	1) Normal operating condition (e.g., normal operation, or open fuse), SC= short circuit, OC= open circuit						

5.6.6	TABLE: Resistance of protective conductors and terminations	N/A
3.0.0	TABLE. Resistance of protective conductors and terminations	11//

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

Location	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)		
Supplementary information: N/A						

5.7.4	TABLE	: Unearthed acces	sible parts				Р
Location		Operating and	Supply	F	Parameters		
		fault conditions	Voltage (V)	Voltage (V <sub>rms</sub> or V <sub>pk</sub> )	Current (A <sub>rms</sub> or A <sub>pk</sub> )	Freq. (Hz)	class
		Normal	264Vac	Max. 5.16Vdc		60	ES1
USB-A Output terminals		Abnormal – see table B.3, B.4 for detail	264Vac	Max. 5.16Vdc		60	ES1
		Single fault – see table B.3, B.4 for detail	264Vac	Max. 5.16Vdc		60	ES1
		Normal	264Vac		Max. 0.062mApk	60	ES1
Plastic enclosure with metal foil		Abnormal – see table B.3, B.4 for detail	264Vac		Max. 0.062mApk	60	ES1
		Single fault – see table B.3, B.4 for detail	264Vac		Max. 0.062mApk	60	ES1
Supplementa	rv infor	ı		<u> </u>			<u> </u>

Abbreviation: SC= short circuit; OC= open circuit

5.7.5	TABLE: Earthed accessible conductive part				N/A
Supply voltage (V):					_
Phase(s):		[] Single Phase; [] Three F	[] Single Phase; [] Three Phase: [] Delta [] Wye		
Power Distribution System:		□TN □TT □IT			_
Location		Fault Condition No in IEC 60990 clause 6.2.2	Touch current (mA)	Comm	ent
Supplement	ary Information: N/A				

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Clause	Requirement + Test	Result - Remark	Verdict		

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

Abbreviation: SC= short circuit, OC= open circuit

6.2.2	ABLE: Power source	BLE: Power source circuit classifications					
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power <sup>1)</sup> (W)	Time (S)	PS class	
All circuits except for output circuits (Output connector)						PS3 (Declared)	
	Normal	5.15	3.6	17.15	5	PS2	
	U1 pin 1-8 SC	0	0	0	3	PS1	
USB-A Output terminal: 5V	D1 SC	0	0	0	3	PS1	
	R2 SC	0	0	0	3	PS1	
	U1 Pin 1-3 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.

6.2.3.1	TABLE: Determination of Arcing PIS					
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value	Arcing PIS? Yes / No	
All circuits except for output circuits (output connector)			-		Yes (declaration )	
Supplementary information: N/A						

6.2.3.2	TABLE: Determination of resistive PIS			Р
Location		Operating and fault condition	Dissipate power (W)	Resistive PIS? Yes / No
All inte	ernal circuits /			Yes

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components		(declaration)
Supplementary information:		
Abbreviation: SC= short circuit;	OC= open circuit	

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

9.6	TABLE:	Temperat	ure measu	reme	ents fo	or wireless	power tra	nsmitters		N/A
Supply volta	Supply voltage (V):									
Max. transm	Max. transmit power of transmitter (W):									_
			eiver and contact			eiver and contact		ver and at of 2 mm		ver and at of 5 mm
Foreign ol	bjects	Object (°C)	Ambient (°C)		ject C)	Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Supplementa	Supplementary information: N/A									

5.4.1.4, 9.3, B.1.5, B.2.6	TABLE: Temperature measurements									
Supply volta	ge (V):	90V/	/60Hz	_						
Ambient ten	nperature during test Tamb (°C):	25.0	35.0	25.0	35.0	_				
Maximum m	easured temperature <i>T</i> of part/at:		Allowed T <sub>max</sub> (°C)							
Plug pin hol	der	39.4	49.4	35.8	45.8	77				
R1 Body		42.3	52.3	41.1	51.1	105				
PCB near M	B6	63.1	73.1	59.5	69.5	105				
C1 Body		68.2	78.2	64.6	74.6	105				
C2 Body		63.9	73.9	60.3	70.3	105				
T1 winding		80.1	90.1	76.5	86.5	110				

			IEC 62368-1					
Clause Requirement +	Test				Result	- Remark		Verdict
T1 bobbin			78.1		88.1	74.5	84.5	110
PCB near T1	76.0		86.0	72.2	82.2	130		
CY1 Body						59.2	69.2	125
C4 Body	C4 Body					75.6	85.6	105
PCB near U1			99.8	,	109.8	96.2	106.2	130
C3 Body			76.2		86.2	72.6	82.6	130
Plastic enclosure inside near	T1		61.0		71.0	57.4	67.4	120
Plastic enclosure outside nea	ar T1		48.4			44.8	-	77
Enclosure near USB			58.3			54.7	-	77
Temperature T of winding: t <sub>1</sub> (°C) R <sub>1</sub> (Ω		2) t <sub>2</sub> (°C	)	$R_2(\Omega)$	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class	
Supplementary information:N	/A							

B.2.5	T.	ABLE: Ir	nput test						Р		
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/st	atus		
90	50	0.132		7.28		RF1	0.132				
90	60	0.133		7.31		RF1	0.133				
100	50	0.119	0.15	7.21		RF1	0.119				
100	60	0.121	0.15	7.23		RF1	0.121	Load: USB-A 5\	/do 11		
240	50	0.069	0.15	7.19		RF1	0.069	Luau. USB-A 5	vuc, iA		
240	60	0.071	0.15	7.22		RF1	0.071				
264	50	0.065		7.25		RF1	0.065				
264	60	0.068		7.28		RF1	0.068				
Supplen	nentary	/ informa	tion:								

B.3, B.4	TAB	ABLE: Abnormal operating and fault condition tests								
Ambient temperature T <sub>amb</sub> (°C) : 25°C if not specified										
Power source	e for	EUT: Manufactu	rer, model/	type, outp	utrating:			_		
Component N	No.	Condition	Supply	Test	Fuse no.	Fuse Observation				

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

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Clause	Requirement + Test	Result - Remark	Verdict				

		voltage (V)	time		current (A)	
MB6 Pin "1" to "4"	SC	264Vac	1s	RF1	0	Unit shut down, RF1 fuse resistors opened, tested 3 times, no hazardous.
C1	SC	264Vac	1s	RF1	0	Unit shut down, RF1 fuse resistors opened, tested 3 times, no hazardous.
D1	SC	264Vac	1s	RF1	0	Unit shut down, RF1 fuse resistors opened, tested 3 times, no hazardous.
D2	SC	264Vac	1s	RF1	0	Unit shut down, RF1 fuse resistors opened, tested 3 times, no hazardous.
C5	SC	264Vac	1s	RF1	0	Unit shut down, RF1 fuse resistors opened, tested 3 times, no hazardous.
R2	SC	264Vac	1s	RF1	0	Unit shut down, RF1 fuse resistors opened, tested 3 times, no hazardous.
U1 pin 3-7	SC	264Vac	1s	RF1	0	Unit shut down, RF1 fuse resistors opened, tested 3 times, no hazardous.
U1 pin 2-6	SC	264Vac	1s	RF1	0	Unit shut down, RF1 fuse resistors opened, tested 3 times, no hazardous.
U1 pin 4-7	SC	264Vac	1s	RF1	0	Unit shut down, RF1 fuse resistors opened, tested 3 times, no hazardous.
T1 Pin 1-2	SC	264Vac	10mins	RF1	0.01	Unit shut down, can be recovery, no damaged, no hazardous.
T1 Pin 4-5	SC	264Vac	10mins	RF1	0.01	Unit shut down, can be recovery, no damaged, no hazardous.
T1 Pin 6-7	SC	264Vac	10mins	RF1	0.01	Unit shut down, can be recovery, no damaged, no hazardous.
R12	SC	264Vac	10mins	RF1	0.01	Unit shut down, can be recovery, no damaged, no hazardous.
USB-A Output	SC	264Vac	10mins	RF1	0.01	Unit shut down, can be recovery, no damaged, no

				IEC 62	368-1			
Clause	Red	quirement + Test				Result - R	emark	Verdict
terminal "+",	"_"						hazardous.	
USB-A Output terminal: 5V		ut OL	264Vac	4h37mi ns	RF1	0.102	Unit max load when overload to 3.65A. Unit shut down imm	•
							no damaged, can be recovery, no hazard	•
Supplementa	ary in	formation: N/A						

M.3	TABLE: Pro	otection circui	ts fo	or batterie	s provide	d wi	thin t	he equi	pment	N/A	
Is it possible t	o install the b	pattery in a rev	erse	polarity po	sition?	.:			No	_	
		Charging									
Equipment S	pecification		Vo	oltage (V)					Current (A)		
					Battery	spec	cification	on			
	1.	Non-recharge	able	batteries			Rech	nargeab	e batteries		
Manufactu	urer/type	Discharging	Unintentional		Charging				Discharging	Reverse	
		current (A)		charging urrent (A)	Voltage	(V)	Current (A)		current (A)	charging current (A)	
Note: The test	ts of M.3.2 ar	e applicable on	ly w	hen above	appropriat	e da	ıta is n	ot availa	able.		
Specified batt	ery temperat	ure (°C)				.:				_	
Component No.	Fault condition	Charge/ discharge mo	de	Test time	Temp. (°C)		rrent (A)	Voltag (V)	Obse	rvation	
Abbreviation:	Supplementary information:  Abbreviation: SC= short circuit; OC= open circuit NL= no chemical leakage; NS= no spillage of liquid; NE= no explosion; NF= no emission of flame or expulsion of molten metal.										

M.4.2	TABLE: Charging sabattery	ABLE: Charging safeguards for equipment containing a secondary lithium attery							
Maximum specified charging voltage (V):									
Maximum s	Maximum specified charging current (A): :								
Highest spe	cified charging tempera	ture (°C):		_					
Lowest spec	Lowest specified charging temperature (°C): :								
Battery	Operating	Measurement	on						

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

manufacturer/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 intended for interconnection with building wiring (LPS)						
Output Circuit	0 1111	0.0	Time (s)	I <sub>sc</sub>	(A)	S ('	VA)
	Condition	U <sub>oc</sub> (V)		Meas.	Limit	Meas.	Limit
USB-A	Normal	5.15	5	3.6	8	17.15	100
	U1 pin 1-8 SC	0	5	0	8	0	100
Output	D1 SC	0	5	0	8	0	100
terminal: 5V	R2 SC	0	5	0	8	0	100
	U1 Pin 1-3 SC	0	5	0	8	0	100

T.2, T.3, T.4, T.5	TABLE	TABLE: Steady force test													
Part/Location	า	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Obse	rvation							
Interna components				V.2	10	5	clearar cree	iction the ices and page inces.							
Top enclo	sure	Plastic	Min. 1.0		100	5		nage, No zard							
Side enclo	sure	Plastic	Min. 1.0		100	5		nage, No zard							
Bottom enc	losure	Plastic	Min. 1.0		100	5		nage, No zard							
Supplementa	ary infor	mation: N/A						Supplementary information: N/A							

T.6, T.9	TABLE: Impact test	N/A	
----------	--------------------	-----	--

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Location/part	Material	Thickness (mm)	Height (mm)	Observation				
Supplementary information: N/A								

T.7	TABLE: Drop test					
Location/par	rt	Material	Thickness (mm)	Height (mm)	Observation	on
Top er	nclosure	Plastic	Min. 1.0	1000	No damage, No	hazard
Side e	nclosure	Plastic	Min. 1.0	1000	No damage, No	hazard
Bottom enclosure		Plastic	Min. 1.0	1000	No damage, No	hazard
Supplementary information: N/A						

T.8	TABLE	TABLE: Stress relief test						
Location/Par	t	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	vation	
Completed sample		Plastic	Min. 1.0	91	7	No dama hazardous cannot be	live parts	
Supplementary information: N/A								

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

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4.1.2 T	ABLE: Critical compe	onents information	on		Р
Object / part No.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>
Plastic enclosure	SABIC INNOVATIVE PLASTICS US L L C	945(GG)	120 °C, V-0, Min. thickness: 1.0 mm	UL 94 UL 746C	UL E45329
Plug holder/sleevin g material	SABIC INNOVATIVE PLASTICS US L L C	945(GG)	120 °C, V-0, Min. thickness: 1.0 mm	UL 94 UL 746C	UL E45329
PCB	Interchangeable	Interchangeable	V-0, 130 °C	UL 94	UL
Fuse Resistors (RF1)	Shenzhen Lanbao Anke Electronics CO., LTD	RXF 21	4.7 R, 0.5 W	IEC/EN 62368-1	VDE 40046884 Test with appliance
- Plastic sleeve	Interchangeable	Interchangeable	Min. V-1	UL 94 UL 746C	UL
Internal wire	Interchangeable	Interchangeable	Min. 300 V, Min. 80 °C, Min. 22 AWG, Min. VW- 1	UL 758	UL
Bridge rectifier (MB6)	Shenzhen Walder Semiconductor Co., Ltd.	WRABS20M	Min. 1.0 A, Min. 1000 V	IEC/EN 62368-1	Test with appliance
(Alternative)	Nanjing Zhongbao Electronic Co., Ltd.	FTB10S-20	Min. 1.0 A, Min. 1000 V	IEC/EN 62368-1	Test with appliance
Electrolytic Capacitor (C1, C2)	Fuzhiqing Electronics (Shenzhen) Co., Ltd.	СН	Each Min. 400 V, Max. 4.7 uF, 105 °C	IEC/EN 62368-1	Test with appliance
(Alternative)	Yiyang Wanjingyuan Electronic Co., Ltd.	СН	Each Min. 400 V, Max. 4.7 uF, 105 °C	IEC/EN 62368-1	Test with appliance
(Alternative)	Dongguan Hong'an Electronic Co., Ltd.	СН	Each Min. 400 V, Max. 4.7 uF, 105 °C	IEC/EN 62368-1	Test with appliance
(Alternative)	Dongguan Jiawei Cheng Electronic Co., Ltd.	СН	Each Min. 400 V, Max. 4.7 uF, 105 °C	IEC/EN 62368-1	Test with appliance

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(Alternative)	Yiyang Wanjingyuan Electronic Co., Ltd.	СН	Each Min. 400 V, Max. 4.7 uF, 105 °C	IEC/EN 62368-1	Test with appliance
Line chock (LR)	Shenzhen shuo pu te electronic technology Co., Ltd	ТФ6*12	130 °C	IEC/EN 62368-1	Tested with appliance
Y-Capacitor (CY1)	Sichuan TRX Technology Co., Ltd.	TRX	Max. 2200 pF, Min. 400 Vac, 125 °C, Y1 type.	IEC/EN 60384-14	ENEC-02084- M2
(Alternative)	Huizhou Jingqin Electronic Components Co., Ltd.	SMD series	Max. 2200 pF, Min. 400 Vac, 125 °C, Y1 type.	IEC/EN 60384-14	ENEC-04145- M1
Varistor (R1)	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	10D561K	Min.350Vac, 105°C	IEC 61051-1, IEC 61051-2, IEC 61051-2-2	VDE 40023049
Transformer (T1)	Guangxi Qinzhou Xingda Weiye Technology Co Ltd	W-001-GaN	Class B	IEC/EN 62368-1	Test with appliance
- Bobbin	CHANG CHUN PLASTICS CO LTD	T375J(G5)(G6)	Phenolic, V-0, 150 °C, Min. Thickness 0.7 mm	UL 94	UL E59481
- Magnet wire	HUIZHOU CITY DENGGAODA ELECTROTECH CO LTD	X UEW	130 °C; MW 79- C	UL 1446	UL E253843
(Alternative)	Interchangeable	Interchangeable	130 °C; MW 79- C	UL 1446	UL
-Triple insulation wire	Shenzhen Kaizhong Hedong New Materials Co., Ltd.	TIW-B	130 °C	IEC/EN 62368-1	VDE 40038861
- Insulation tape	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A (b)	130 °C	UL 510A	UL E246950
-Tubing	Fluotech Industrial (Huizhou) Co Ltd	TFT	200 °C, min. 300 V	UL 224	UL E175982

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Clause	Requirement + Test	Result - Remark	Verdict

-Varnish	ZHUHAI CHANGXIAN NEW MATERIALS TECHNOLOGY CO LTD	E962	MW 28-C, 130 °C	UL 1446	UL E335405
EU Plug	Shenzhen four seasons electronic co., LTD	DYK0051000, HSY-050600	250 V~, 2.5 A	EN 50075	CE

### Supplementary information:

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

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

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

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Attachment No.1		IEC62368_1E - A	ATTACHMENT	
Clause	Require	ment + Test	Result - Remark	Verdict
	7	Pentry: The SI unit is Pa $^2$ s. $p(t)^2  \mathrm{d}t$		
2 2 4 2 4	0	ama arma larral. C5/		
3.3.19.4	logarithr referenc threshol	nic measure of sound exposure relative to a e value, <i>Eo</i> , typically the 1 kHz d of hearing in humans.  entry: <i>SEL</i> is measured as A-weighted levels in dB.		N/A
		$10 \lg \left(\frac{E}{E_0}\right) dB$ entry: See B.4 of EN 50332-3:2017 for additional		
3.3.19.5	information	ignal level relative to full scale, dBFS		
	level, 0 d Hz sine is positive correspondant to the Because the level of significant to the significant to t	ported in dBFS are always r.m.s. Full scale dBFS, is the level of a dc-free 997-wave whose undithered positive peak value re digital full scale, leaving the code anding to negative digital full scale unused entry: It is invalid to use dBFS for non-r.m.s. levels. The definition of full scale is based on a sine wave, the mals with a crest factor lower than that of a sine wave and 0 dBFS. In particular, square wave signals may and dBFS.		
2	Modifica	ation to Clause 10		_
10.6	_	ards against acoustic energy sources 10.6 of IEC 62368-1 with the following:		N/A
10.6.1.1	term explevels from the earth for earph with person intended — is desaudiovis	ard requirements for protection against long- osure to excessive sound pressure om personal music players closely coupled ar are specified below. Requirements nones and headphones intended for use sonal music players are also covered. hal music player is a portable equipment If for use by an ordinary person, that: igned to allow the user to listen to audio or ual content / material; and		N/A
		ual content / material; and a listening device, such as headphones or		

Clause Re	quire	ment + Test		
		Thorac i root	Result - Remark	Verdict
aro - h suit is ir cor in a	tund thas a table ntend ntinuo	es that can be worn in or on or he ears; and player that can be body worn (of a size to be carried in a clothing pocket) and ed for the user to walk around with while in us use (for example, on a street, way, at an airport, etc.).  S Portable CD players, MP3 audio players, mobile		
		th MP3 type features, PDAs or similar equipment.  I music players shall comply with the		
		ents of either 10.6.2 or 10.6.3.		
		rotection against acoustic energy sources from telecom is is referenced to ITU-T P.360.		
altei mea mar	rnative asurem	is the intention of the Committee to allow the methods for now, but to only use the dose ent method as given in 10.6.5 in future. Therefore, rers are encouraged to implement 10.6.5 as soon as		
the The mo The	requese reduction requests request requests request requests reque	g devices sold separately shall comply with irements of 10.6.6. equirements are valid for music or video sly.  Jirements do not apply to:  Sional equipment;		
spec norr	cial sal	rofessional equipment is equipment sold through es channels. All products sold through ctronics stores are considered not to be professional		
ass – th	sistive	g aid equipment and other devices for listening; owing type of analogue personal music		
• lo mu rec	ng di: Itiban eiver,	stance radio receiver (for example, a d radio receiver or world band radio an AM radio receiver), and e player/recorder;		
tech with	nology in a fe	nis exemption has been allowed because this vis falling out of use and it is expected that w years it will no longer exist. This exemption will not do other technologies.		
tha		er while connected to an external amplifier s not allow the user to walk around use.		
	-	pment that is clearly designed or intended for use by children, the limits of the		

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	rolovant	toy standards may apply.	I	T
	Televanii	toy standards may apply.		
	The rele	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 ge 0 to 300 GHz		N/A
	lile rang	ge 0 to 300 GHZ		
	The amo	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).			
		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		
	and EN			
10.6.2		cation of devices without the capacity to e	estimate sound dose	N/A
10.6.2.1	General			N/A
	This sta	ndard is transitioning from short-term based		
		equirements to long-term based (40 hour)		
		nents. These clauses remain in effect only		
	for device	ces that do not comply with sound dose		
	estimation	on as stipulated in EN 50332-3.		
	For clas	sifying the acoustic output $L_{Aeq},  au$ ,		
		ements are based on the A-weighted		
	equivale	ent sound pressure level over a 30 s period.		
	For mus	ic where the average sound pressure (long		
		$eq, \tau$ ) measured over the duration of the song		
		than the average produced by the		
		ime simulation noise, measurements may be		
		er the duration of the complete song. In this		
	case, T	becomes the duration of the song.		
	NOTE Cla	ssical music, acoustic music and broadcast typically		
	has an av	erage sound pressure (long term $L_{Aeq}, \tau$ ) which is much		
		the average programme simulation noise. Therefore, if is capable to analyse the content and compare it with		
	the progra	mme simulation noise, the warning does not need to be		
		ong as the average sound pressure of the song does		
		d the required limit. Die, 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		
		dgement as long as the average sound level of the song ve the basic limit of 85 dB.		

Attachme	nt No.1	IEC62368_1E	ATTACHMENT	
Clause	Require	ment + Test	Result - Remark	Verdict
	D04 15	'to (to be consequed to be consequed to 0.000)	1	T
10.6.2.2	RS1 IIM	its (to be superseded, see 10.6.3.2)		N/A

Clause	Requirement + Test	Result - Remark	verdict
	DS1 limits (to be supercoded, see 40.5.2.2)		
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 $L_{Aeq, \tau}$ acoustic output shall be $\leq 85 \text{ dB}$		
	when playing the fixed "programme simulation		
	noise" described in EN 50332-1.		
	<ul> <li>for equipment provided with a standardized</li> </ul>		
	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
	BS2 is a close 2 acquatic energy source that does		
	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 $L_{Aeq,T}$ acoustic output shall be $\leq$ 100 dB(A) when playing the fixed "programme		
	simulation noise" as described in EN 50332-1.		
	<ul> <li>for equipment provided with a standardized</li> </ul>		
	connector (for example, a 3,5 phone jack) that		
	allows connection to a listening device for general		
	use, the unweighted r.m.s. output voltage shall be ≤		
	150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme"		
	simulation noise" as described in EN 50332-1.		
10.6.2.4	RS3 limits		N/A
	Book and a south of the state o		
	RS3 is a class 3 acoustic energy source that exceeds RS2 limits.		
10.6.3	Classification of devices (new)	I	N/A
10.6.3.1	General		N/A
	Previous limits (10.6.2) created abundant false		
	negative and false positive PMP sound level		

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Clause	Requirement + Test		Result - Remark	Verdict

		<u>.                                      </u>	
	warnings. New limits, compliant with The		
	Commission Decision of 23 June 2009, are given		
	below.		
10.6.3.2	RS1 limits (new)		NI/A
10101012	No minio (non)		N/A
	RS1 is a class 1 acoustic energy source that does		
	not exceed the following:		
	for equipment provided as a package (player with		
	its listening device), and with a proprietary connector		
	between the player and its listening device, or where		
	the combination of player and listening device is		
	known by other means such as setting or automatic		
	detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 80 dB		
	when playing the fixed "programme simulation		
	noise" described in EN 50332-1.		
	<ul> <li>for equipment provided with a standardized</li> </ul>		
	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
	` '		14// (
	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.		
	<ul> <li>for equipment provided with a standardized</li> </ul>		
	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		N/A
	All colores and tale abolt by Control Control		
	All volume controls shall be turned to maximum		
	during tests.		
	Measurements shall be made in accordance with		
	Integration of the many in accordance with		

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	EN 50332-1 or EN 50332-2 as applicable.	
0.6.4.2	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 <b>safeguard</b> .	
	Between RS2 and an ordinary person, the basic safeguard may be replaced by an instructional safeguard in accordance with Clause F.5, except that the instructional safeguard shall be placed on the equipment, or on the packaging, or in the instruction manual.  Alternatively, the instructional safeguard may be	
	given through the equipment display during use.	
	The elements of the <b>instructional safeguard</b> shall be as follows:	
	- element 1a: the symbol (2011-01), IEC 60417-6044	
	element 2: "High sound pressure" or equivalent wording	
	<ul><li>– element 3: "Hearing damage risk" or equivalent</li><li>wording</li><li>– element 4: "Do not listen at high volume levels for</li></ul>	
	long periods." or equivalent wording	
	An <b>equipment safeguard</b> shall prevent exposure of an <b>ordinary person</b> to an RS2 source without intentional physical action from the <b>ordinary person</b> 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,	

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	independe	ent of how often and how long the personal music player		
		switched off.		
		d person shall not be unintentionally I to RS3.		
10.6.5	•	ments for dose-based systems		N/A
10.6.5.1	General	requirements		N/A
	The mar allow the receive to better us safegua a metho and devi are offer restriction etc.) sha	Il music players shall give the warnings as dibelow when tested according to EN 50332-the limits from this clause.  Inufacturer may offer optional settings to experience without defeating the respective of the notifications and warnings to promote a ser experience without defeating the reds. This allows the users to be informed in did that best meets their physical capabilities ince usage needs. If such optional settings red, an administrator (for example, parental ons, business/educational administrators, all be able to lock any optional settings into a configuration.		
	easy to dose made av	sonal music player shall be supplied with understand explanation to the user of the anagement system, the risks involved, and use the system safely. The user shall be ware that other sources may significantly te to their sound exposure, for example ansportation, concerts, clubs, cinema, car tc.		
10.6.5.2	Dose-ba	ased warning and requirements		N/A
	at every shall wa acknowl acknowl	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 buld be far separated in time, defying the of educating users about safe listening. In addition to dose-based requirements, a		

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	PMP shisound leading to the expreduce to 150 mV methodo The EL reduction faster.  Test of I EN 5033 equipme	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  EL functionality is conducted according to 32-3, using the limits from this clause. For ent provided as a package (player with its		
	shall be with a st integrate for an ar dBFS fo	device), the level integrated over 180 s 100 dB or lower. For equipment provided candardized connector, the unweighted level ed over 180 s shall be no more than 150 mV nalogue 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	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	Corded listening devices with digital input  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 $L$ Aeq, $\tau$ acoustic output of the listening device shall be $\leq$ 100 dB with an input signal of -10 dBFS.	N/A

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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 $L$ Aeq, $\tau$ acoustic output of the listening device shall be $\leq$ 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	_

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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	to Clause 1	1			
Modification  Add the follow					

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. <b>mains</b> , 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	

		. a.g	,		
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	coupler, fault prodevices c) it is perman dedicate the build protection specified.  If reliand installating state, expecified the build providing providing the build providing state.	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 ding installation, provided that the means of on, e.g. fuses or circuit breakers, is fully d in the installation instructions.  The installation instructions shall so except that for pluggable equipment type A ding installation shall be regarded as g protection in accordance with the rating of socket outlet.			
6	Modific	ation to 5.4.2.3.2.4		_	
5.4.2.3.2.4	The req	following to the end of this subclause: uirement for interconnection with external in addition given in EN 50491-3:2009.		N/A	
7	Modific	ation to 10.2.1		_	
10.2.1	Add the	following to c) and d) in table 39:		N/A	

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

For additional requirements, see 10.5.1.

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	fault convoltage, for 1 h, a made.  For RS1 taking ac	er, the measurement shall be made under aditions causing an increase of the high provided an intelligible picture is maintaine at the end of which the measurement is , the dose-rate shall not exceed 1 µSv/h ccount of the background level.	n increase of the high gible picture is maintained in the measurement is all not exceed 1 µSv/h ground level.	Volunce
9	Modifica	ation to G.7.1		_
G.7.1	Add the	following note:		N/A
		The harmonized code designations corresponding to ord types are given in Annex ZD.		

10	Modification to Bibl	Modification to Bibliography		
	Add the following notes for the standards indicated:			
	IEC 61508-1 IEC 61558-2-1 IEC 61558-2-4 IEC 61558-2-6 IEC 61643-1 IEC 61643-21 IEC 61643-311	NOTE Harmonized as EN 61643-1. NOTE Harmonized as EN 61643-21.		
11	ADDITION OF ANNEXES		_	
ZB	ANNEX ZB, SPECIA	L NATIONAL CONDITIONS (EN)		
4.1.15	Denmark, Finland, N	Norway and Sweden	N/A	
	To the end of the subclause the following is added:  Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors			

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	1		1	
	accessi	ble parts, have a marking stating that the ent shall be connected to an earthed mains butlet.		
	The mar	rking text in the applicable countries shall be vs:		
	stikkonta stikprop	nark: "Apparatets stikprop skal tilsluttes en akt med jord som giver forbindelse til pens jord."		
	varustet	nd: "Laite on liitettävä suojakoskettimilla tuun pistorasiaan" ay: "Apparatet må tilkoples jordet akt"		
	In <b>Swed</b> uttag"	len: "Apparaten skall anslutas till jordat		
4.7.3	United I	Kingdom		Р
	To the e	and of the subclause the following is added:		
	complyir assesse	que test is performed using a socket-outlet ng with BS 1363, and the plug part shall be and to the relevant clauses of BS 1363. Also nex G.4.2 of this annex		
5.2.2.2	Denmar			N/A
	After the	e 2nd paragraph add the following:		
	current i	ng (marking safeguard) for high touch s required if the touch current exceeds the 3,5 mA a.c. or 10 mA d.c.		
E A A A A		and Cwadon		NI/A

Thom earth the following is applicable.
If this insulation is solid, including insulation forming part of a component, it shall at least
consist of either

Finland and Sweden

 two layers of thin sheet material, each of which shall pass the electric strength test below, or

To the end of the subclause the following is added:

For separation of the telecommunication network

 one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.

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5.4.11.1

Annex G

and

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N/A

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	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances a creepage distances do not exist, if the componer passes the electric strength test in accordance w the compliance clause below and in addition  • passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplie by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV),			
	• is subdurin kV.	oject to routine testing for electric strength an manufacturing, using a test voltage of 1,5 mitted to bridge this insulation with a or complying with EN 60384-14:2005, as Y2.		
	14:2005 the follow • the in havin 6038	citor classified Y3 according to EN 60384- , may bridge this insulation under wing conditions: insulation requirements are satisfied by ing a capacitor classified Y3 as defined by EN 14-14, which in addition to the Y3 testing, is id with an impulse test of 2,5 kV defined in 1;		
	test s the impu the endu	dditional testing shall be performed on all the specimens as described in EN 60384-14; ulse test of 2,5 kV is to be performed before urance test in EN 60384-14, in the sequence as described in EN 60384-14.		
5.5.2.1	Norway			N/A
	Due to the required voltage (			
5.5.6	Finland	, Norway and Sweden		N/A

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Clause Requirement + Test			Result - Remark	Verdict

	To the end of the subclause the following is added:	
	Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable equipment type A</b> shall comply with G.10.1 and the test of G.10.2.	
5.6.1	Denmark	N/A
	Add to the end of the subclause Due to many existing installations where the socket- outlets can be protected with fuses with higher rating than the rating of the socket- outlets the protection for pluggable equipment type A shall be an integral part of the equipment.  Justification:	
	In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	
5.6.4.2.1	Ireland and United Kingdom	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:  — the <b>protective current rating</b> is taken to be 13 A, this being the largest rating of fuse used in the <b>mains</b> plug.	
5.6.4.2.1	France	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:  — in certain cases, the <b>protective current rating</b> of the circuit supplied from the mains is taken as 20 A instead of 16 A.	
5.6.5.1	To the second paragraph the following is added:	N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> in cross-sectional area.	
5.6.8	Norway	N/A
	To the end of the subclause the following is added: Equipment connected with an earthed mains plug is classified as <b>class I equipment</b> . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.	
5.7.6	Denmark	N/A
	To the end of the subclause the following is added:	
	The installation instruction shall be affixed to the	
	The installation instruction shall be affixed to the	

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		ent if the <b>protective conductor current</b> is the limits of 3,5 mA a.c. or 10 mA d.c.		
5.7.6.2	Denmar	·k		N/A
	The war current i	and of the subclause the following is added: ning (marking safeguard) for high touch s required if the touch current or the we current exceed the limits of 3,5 mA.		
5.7.7.1		and Sweden		N/A
	The screen normally and ther system of the therefore installati	end of the subclause the following is added: een of the television distribution system is a not earthed at the entrance of the building is normally no equipotential bonding within the building.  The the protective earthing of the building on needs to be isolated from the screen of stribution system.		
	external intercon	rever accepted to provide the insulation to the equipment by an adapter or an nection cable with galvanic isolator, which provided by a retailer, for example.		
	similar ir languag	r manual shall then have the following or nformation in Norwegian and Swedish e respectively, depending on in what count pment is intended to be used in:	ry	
	the build connecti connecti and to a cable, m hazard. system to device p	tus connected to the protective earthing of ling installation through the mains ion or through other apparatus with a ion to protective earthing — television distribution system using coaxial may in some circumstances create a fire Connection to a television distribution therefore has to be provided through a providing electrical isolation below a certain cy range (galvanic isolator, see EN 60728-	I	
	Sweden, a below 5 M	Norway, due to regulation for CATV-installations, and is a galvanic isolator shall provide electrical insulation lHz. The insulation shall withstand a dielectric strength r.m.s., 50 Hz or 60 Hz, for 1 min.		
		ion to Norwegian (the Swedish text will also pted in Norway):		
	"Appara	ter som er koplet til beskyttelsesjord via		

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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 főr brand. Főr att undvika detta skall vid ng av apparaten till kabel-TV nät galvanisk finnas mellan apparaten och kabel-TV		
8.5.4.2.3	United I	Kingdom		N/A
	Add the paragrap	following after the 2 <sup>nd</sup> dash bullet in 3 <sup>rd</sup> oh:		
	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		and United Kingdom		N/A
B.4	The follo	owing is applicable:		
	circuits i equipm B.4 shal circuit bi rated 32 tests, su as an in	ect against excessive currents and short- in the primary circuit of <b>direct plug-in</b> 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 intable protective devices shall be included tegral part of the <b>direct plug-in equipment</b> , requirements of Annexes B.3.1 and B.4 are		
0.40	Denmar	·k	]	N1/A
G.4.2	To the e	nd of the subclause the following is added:		N/A
	rated cu	cords of single phase appliances having a rrent not exceeding 13 A shall be provided ug according to DS 60884-2-D1:2011.		
		I EQUIPMENT provided with socket-outlets		

with earth contacts or which are intended to be used in locations where protection against indirect contact

Attachment No.1		IEC62368_1E -	ATTACHMENT	
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	provided sheet DI  If a single CURRE equipmed plug, this standard 60309-2  Mains second Class II be in accepted by the compliant or DKA  Mains second Compliant or DKA	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.  Irrent rating socket outlets shall be in nace with Standard Sheet DKA 1-3a 1-1c.  Ocket-outlets with earth shall be in nace with DS 60884-2-D1:2011 d Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a 7a		
	-	current Regulations, Section 6c		
G.4.2	To the e The plug assesse 12.11, 1 the test 125 °C. Insulate requirem	Aingdom  Ind of the subclause the following is added: Independent of direct plug-in equipment shall be door 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 discontinuous Device (ISOD), the ments of clauses 22.2 and 23 also apply.		P
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 ons.		N/A

		r ago ro or oo	rtoport rto. 7	.00200000000
Attachn	nent No.1	IEC62368_1E	ATTACHMENT	
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		andard plug" is defined in SI 1768:1994 and essentially approved plug conforming to BS 1363 or an approved plug.		
G.7.1	Ireland			N/A
	To the fi	rst paragraph the following is added:		
	shall be Statutor 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 d of another Member State which is ent to the relevant Irish Standard		
G.7.2	Ireland	and United Kingdom		N/A
	To the fi	rst paragraph the following is added:		
	allowed	supply cord with a conductor of 1,25 mm <sup>2</sup> is 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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Website: Http://www.aoc-cert.com

up to and including 13 A.

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

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

## **Product Photos**

Details of: Overview for model DYK0051000



Details of: Overview for model DYK0051000



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## **Product Photos**

Details of: Overview for model DYK0051000



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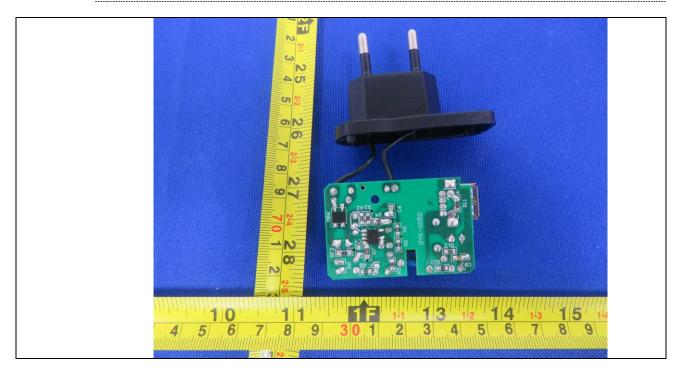
Tel: (86)755-85277785 Fax: (86)755-23705230 E-mail: postmaster@aoc-cert.com

## **Product Photos**

Details of: Internal view for model DYK0051000



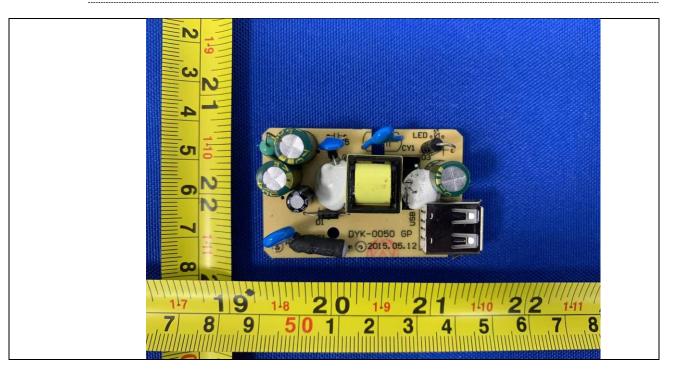
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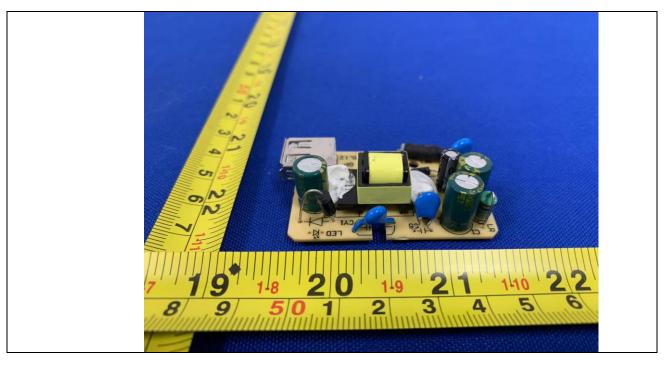
Details of: Internal view for model DYK0051000



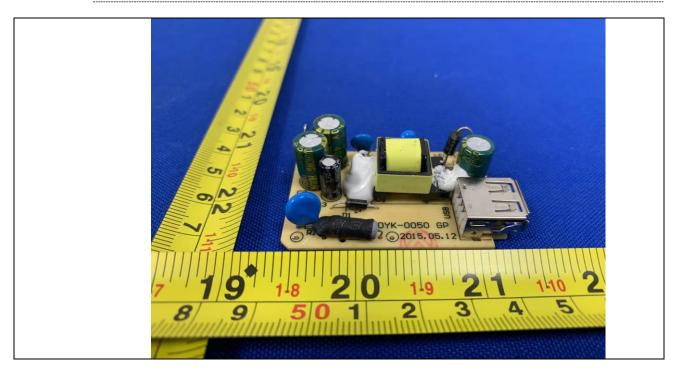
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Details of: PCB view for model DYK0051000



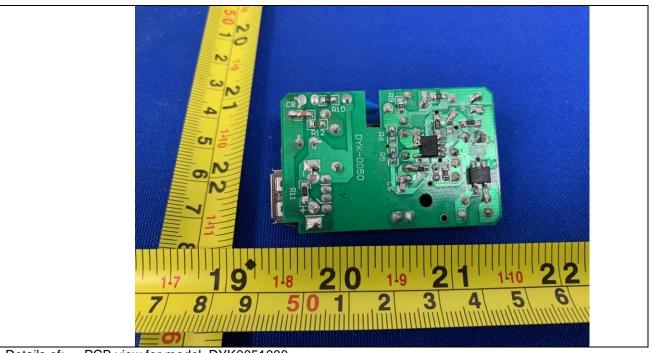
Details of: PCB view for model DYK0051000



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Details of: PCB view for model DYK0051000



Details of: PCB view for model DYK0051000



- End of report -

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