

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

LED TV Set

Name and address of the applicant

TPV Display Technology (Xiamen) Co., Ltd No. 1 Xianghai Road, Xiamen Torch Hi-Tech Industrial Development Zone (Xiang'An) Xiamen City 361101 Fujian, P.R.

China

Name and address of the manufacturer

TPV Display Technology (Xiamen) Co., Ltd No. 1 Xianghai Road, Xiamen Torch Hi-Tech Industrial Development Zone (Xiang'An) Xiamen City 361101 Fujian, P.R.

China

Name and address of the factory

Note: When more than one factory, please report on page 2

See additional page(s) for the listing of 30 factories

Ratings and principal characteristics

I/P: 1) 100-240VAC, 50Hz or 50/60Hz or 50-60Hz, 130 W or 220-240VAC, 50Hz or 50/60Hz or 50-60Hz, 130 W;
2) 100-240VAC, 50Hz or 50/60Hz or 50-60Hz, 145 W or 220-240VAC, 50Hz or 50/60Hz or 50-60Hz, 145 W

Class II

Trademark / Brand (if any)

PHILIPS

Customer's Testing Facility (CTF) Stage used

N/A

Model / Type Ref.

1) 55PU*81*0/****; 2) 55PU*82*0/**** (* can be 0-9, A-Z, a-z, +, -, /, \ or blank)

Additional information (if necessary may also be reported on page 2)

For model differences, refer to the test report.

A sample of the product was tested and found to be in conformity with

IEC 62368-1:2018

See Test Report for National Differences

As shown in the Test Report Ref. No. which forms part of this Certificate

CN25UVL2 001

This CB Test Certificate is issued by the National Certification Body



2025-03-13

TÜV Rheinland Japan Ltd. 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021, Japan Mail: info@jpn.tuv.com

Signature:

Aegean Li

Date:



Page 2 of 4

Factories:

- Arab Company for Computer Manufacturing

 1. El Obour City, Industrial Zone A, Lot 14, Block 12006
 Egypt
- Skyblu Technolgies (Pty) Ltd

 2. 46 Siphosethu Road, Mount Edgecombe 4300 Kwa-Zulu Natal,
 South Africa

Anyview Technology (Pty) Ltd

- 3. Longmeadow Business Estate, 14 Angus Crescent, Longmeadow East, 1609 Postnet Suite #433, Private Bag X 1 Melrose Arch, 2076 South Africa
- TPV Technology (Thailand) Co., Ltd.
 4. No.267 Mu7, Tha Tum Sub- District, Si Maha Pho District, Prachin Buri Province,
 Thailand
- Dixon Technologies (India) Ltd. EMC-2, Shed No. 2,4,5,6 & 7, Near

 Tirupati Airport, Village Govindhavaram, Munagalapalem Post, Revenue

 Vikruthamala, Yerpedu Mandelam, District-Chittoor, Andhra Pradesh, 517526

 India
- MIRC Electronics Ltd

 6. Onida House, G-1 MIDC Mahakali Caves Road, Andheri (E) Mumbai 400093
 India

AMTEC ELECTRONICS CORPORATION

7. Plot A, No. 10A, 01 street, Hiep Phuoc industrial park, Long Thoi commune, Nha Be district, Ho Chi Minh city 700000 Vietnam

Pt.Tridharma Kencana

- 8. Gudang Berikat, Jl.Raya Serang Jakarta, Km. 12 No 66, Kelurahan Cisait, Kecamatan Keragilan, Serang, Banten, Jakarta Indonesia
- Cal-Comp Electronics (Thailand) Public Co., Ltd.
 9. 60 Moo 8, Sethakij Rd., Klong Maduea, Kratoom Bean Samut Sakhon 74110
 Thailand

Pro Concept Manufacturer Co., Ltd

10. 88/1 Moo 12, Soi Phetkasem120, Phetkasem Road, Omnoi, Krathumbaen, Samutsakorn 74130
Thailand

CJ CENTURY TECHNOLOGY SDN. BHD.

11. LOT 4A, JALAN SULTAN MOHAMED 3 KAWASAN PERINDUSTRIAN BANDAR SULTAN SULEIMAN 42000 PORT KLANG SELANGOR DARUL EHSAN Malaysia



Date: 2025-03-13 Signature: as on page 1



Page 3 of 4

Factories:

Trend Smart CE Mexico S de RL de CV

Avenida Sor Juana Ines de la Cruz de 19602 Nueva Tijuana, 22435 Tijuana Baja 12.

Mexico

Digital Fueguina S.A

- Combate de Montevideo 1141, CP 9420 Rio-Grande Tierra del Fuego 13. Argentina
- Fabrica Austral de Productos Electricos SA
- 14. Islas Malvinas 1180 (V9420AIR) Rio Grande Tierra del Fuego Argentina

Envision Industry of Electronic Products Ltd.

Av Torquato Tapajós 7503, Galpão : II Bloco: Bcondomínio de Galpões-Tarumã-15. Manaus, - AM 69041-025 Brazil

- Envision Industry of Electronic Products Ltd.
- 895, Joao Marcos Pozzetti Street, Industrial District II, Manaus AM 69075-215 16. Brazil
- Envision Indústria de Produtos Eletrônicos Ltda.
- 17. Av. Torquato Tapajós 2236 Flores - CEP - Manaus - AM 69058-830 Brazil

TPV CIS Ltd.

- 177A Moskovskoe Shosse, Shushary settlement, 196626 St. Petersburg 18. Russian Fed.
- Novatech Technology GmbH
- 19. Siemensring 66-68 47877 Willich

Germany

- EMEK INOVATIF ELEKTRIK VE ELEKTRONIK TEKNOLOJILERI
- SAN.TIC. A.S. Osman uzun caddesi No:25 Veliköy Organize Sanayi Bölgesi, 20. Çerkezköy-Tekirdağ,

Türkiye

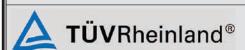
- TPV Displays Polska Sp. z o.o.
- 21. ul. Zlotego Smoka 9 66-400 Gorzów Wlkp.,

Poland

Hefei Kaidi Weier Electronics Co., Ltd.

Haier Color Television Workshop No. 200 Fanhua Road Econ. & Techno. Dev. Zone 22. Hefei 230601 Anhui

P.R. China



2025-03-13 Date:

Signature:

as on page 1



Page 4 of 4

Factories:

TPV Display Technology (Beihai) Co., Ltd.

- China Electronic Beihai Industry Park, Northeast of the Crossing Between Taiwan Road and Jilin Road, Beihai City Guangxi
 P.R. China
- TPV Display Technology (Xianyang) Co., Ltd
- 24. No.1, Xingguang Avenue, Qindu District, Xianyang City Shaanxi P.R. China
- TPV Display Technology (China) Co., Ltd.

 No. 106 Jinghai 3 Rd., BDA 100176 Beijing P.R. China
- TPV Technology (Qingdao) Co., Ltd.
- 26. No.99 Huoju Road, High-tech Industrial Development Zone Qingdao City Shandong P.R. China
 - TPV Display Technology (Wuhan) Co., Ltd.
- 27. Unique No. 11, Zhuankou Development District of Economic Technological Development Zone 430056 Wuhan City P.R. China
- TPV Electronics (Fujian) Co., Ltd.
- 28. Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian P.R. China
- TPV Electronics (Fujian) Co., Ltd.
- 29. Shangzheng, Yuan Hong Road Fuqing City Fujian P.R. China
 - TPV Display Technology (Xiamen) Co., Ltd
- No. 1 Xianghai Road, Xiamen Torch Hi-Tech Industrial Development Zone (Xiang'An) Xiamen City 361101 Fujian P.R. China



Date: 2025-03-13





TEST REPORT IEC 62368-1

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

 Report Number.....:
 CN25UVL2 001

 Date of issue
 11.Mar.2025

Total number of pages.....: 76

Name of Testing Laboratory

preparing the Report...... TÜV Rheinland (Shenzhen) Co., Ltd.

Address: No.1 Xianghai Road, Xiamen Torch Hi-Tech Industrial

Development Zone (Xiang'An), Xiamen City, 361101, Fujian,

P.R.China

Test specification:

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

Test procedure....: CB Scheme

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

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

Test Report Form No. IEC62368 1E

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

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

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If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test item description: LED TV Set					
Trad	e Mark(s):	PHILIF	PS		
Man	ufacturer:	Same as applicant			
			PU*81*0/****; 2) 55PU*82*0/**** (* can be 0-9, A-Z, a-z, "+", ', "\" or blank for marketing purpose.)		
Ratir	ngs:	220- 2) 100-	-240 V~, 50 or 50/60 or 50-6 -240 V~, 50 or 50/60 or 50-6 -240 V~, 50 or 50/60 or 50-6 -240 V~, 50 or 50/60 or 50-6	50 Hz, 130 W; 50 Hz, 145 W or	
Posr	oonsible Testing Laboratory (as a	nnlicak	ala) tasting procedure and	d tosting location(s):	
Kesh	CB Testing Laboratory:	ррпсак	TÜV Rheinland/CCIC (Fu		
			, .	· · ·	
rest	ing location/ address		Road, Mawei, Fuzhou, P.R	Dade Plaza, No. 50, Rujiang . China	
Test	ed by (name, function, signature)	:	Anderson Wang Project Handler	Sand I	
Аррі	roved by (name, function, signatu	ıre):	Crystal Xu Authorizer	Gystol Xu	
	Testing procedure: CTF Stage 1:				
	ing location/ address				
	ed by (name, function, signature)				
Appi	roved by (name, function, signatu	ire):			
	Testing procedure: CTF Stage 2				
Test	ing location/ address	:			
Test	ed by (name, function, signature)				
Witn	essed by (name, function, signat	ure).:			
Аррі	oved by (name, function, signatu	ıre):			
	Tasting presedure: CTF Store 2				
	Testing procedure: CTF Stage 3: Testing procedure: CTF Stage 4:				
T 41					
rest	ing location/ address	:			
Test	ed by (name, function, signature)	:			
Witn	essed by (name, function, signat	ure).:			
Аррі	oved by (name, function, signatu	ıre) :			
Supe	ervised by (name, function, signa	ture) :			

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

- National Differences (23 Pages)
- Photo documentation (3 Pages)

Summary of testing:

Tests performed (name of test and test clause):

name of test	test clause number
Classification of electrical energy sources	5.2
Accessibility to electrical energy sources and safeguards (Accessibility test)	5.3.2
Maximum operating temperature test (Heating test)	5.4.1.4, 9.3, B.1.5, B.2.6
Minimum Clearances/Creepage distance	5.4.2, 5.4.3
Antenna terminal insulation	5.4.5
Humidity test	5.4.8
Electric strength test	5.4.9
Unearthed accessible parts	5.7.4
Electrical Power Source (PS) measurements for classification	6.2.2
Stability	8.6
Wall or ceiling mount loading test	8.7
Input test	Annex B.2.5
Abnormal operating and fault condition tests	Annex B.3, B.4
Test for permanence of markings	Annex F.3.10
Safeguards against entry of foreign object	Annex P.2.2
Adhesive test	Annex P.4
Limited power source test (LPS)	Annex Q.1
Steady force test, 10N, 250N	Annex T.2, T.5
Enclosure impact test	Annex T.6
Stress relief test	Annex T.8

Note:

- Specified maximum ambient temperature for operation is +45 °C.
- Load conditions: The equipment operated under maximum brightness, maximum contrast, maximum resolution of LED backlight circuit with three vertical bar signal (according to 3.2.1.3 of IEC 60107-1:1997); audio with volume with 1kHz recorder adjusted to maximum one-eight non-clipped output power; LED ambient lamp turn on and adjust to Max. brightness; two USB port loaded with dummy load of 5V/0.5A (if any).
- The equipment has been evaluated according to the specified by the manufacturer maximum operating altitude of 3500 m (correction factor for clearances according to IEC 60664:1992+A1:2000+A2:2002 of 1.22 is considered).

Testing location:

All tests as described in Test Case and Measurement Sections were performed at the laboratory described on page 2.

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

EU Group Differences, EU Special National Conditions.

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

For National Differences see corresponding Attachment.

Use of uncertainty of measurement for decisions on conformity (decision rule) :

No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").

Other:... (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)

Information on uncertainty of measurement:

The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.

IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer.

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

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.





Note:

The rated frequency of above representative label can be 50Hz or 50/60Hz or 50-60Hz.

The rated voltage of above representative label can be 100-240 V~ or 220-240 V~.

All models' rating labels are similar except for type designation. Above labels are represent labels for model names other than above.

Test item particulars:	
Product group:	
Classification of use by:	
-	☐ Instructed person
	☐ Skilled person
Supply connection:	☐ AC mains ☐ DC mains
	not mains connected:
	☐ ES1 ☐ ES2 ☐ ES3
Supply tolerance:	
	+20%/-15%
	+ %/- %
Complete a compaction to the compact of the compact	None None None None None
Supply connection – type:	☑ pluggable equipment type A -☐ non-detachable supply cord
	□ Hori-detachable supply cold □ appliance coupler
	☐ direct plug-in
	pluggable equipment type B -
	non-detachable supply cord
	appliance coupler
	permanent connection
	☐ mating connector☐ other:
Considered current rating of protective	
device:	Location: ⊠ building □ equipment
	□ N/A
Equipment mobility:	
	direct plug-in stationary for building-in
Overvoltage category (OVC):	_
Overvoitage category (Ovo)	OVC IV other:
Class of equipment:	_
	□ Not classified □
Special installation location:	
	outdoor location
Pollution degree (PD):	☐ PD 1
Manufacturer's specified T _{ma} :	45 °C ☐ Outdoor: minimum °C
IP protection class:	☑ IPX0 ☐ IP
Power systems:	☑ TN ☐ TT ☐ IT - V _{L-L}
•	not AC mains
Altitude during operation (m):	☐ 2000 m or less ☐ 3500 m
Altitude of test laboratory (m):	☑ 2000 m or less ☐ m
Mass of equipment (kg):	For model 55PU*81*0/**:
· · · · · · · · · · · · · · · · · · ·	Approx. 9.88kg (with base stand); base stand is 0.40kg;
	For model 55PU*82*0/****:
	Approx. 10.20kg (with base stand); base stand is 0.17kg

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:	21.Jan.2025
Date (s) of performance of tests:	17.Feb.2025 – 22.Feb.2025
General remarks:	
"(See Enclosure #)" refers to additional informatio "(See appended table)" refers to a table appended	
Throughout this report a ☐ comma / ☒ point	is used as the decimal separator.
Manufacturer's Declaration per sub-clause 4.2.	5 of IECEE 02:
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	✓ Yes☐ Not applicable
When differences exist; they shall be identified	in the General product information section.
Name and address of factory (ies):	 TPV Display Technology (Xiamen) Co., Ltd No. 1 Xianghai Road, Xiamen Torch Hi-Tech Industrial Development Zone (Xiang'An), Xiamen City, 361101, Fujian, P. R. China TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road, Fuqing City, Fujian, P. R. China TPV Electronics (Fujian) Co., Ltd. Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian, P. R. China TPV Display Technology (Wuhan) Co., Ltd. Unique No. 11, Zhuankou Development District of Economic Technological Development Zone, 430056 Wuhan City, P. R. China TPV Technology (Qingdao) Co., Ltd. No.99 Huoju Road, High-tech Industrial Development Zone, Qingdao City, Shandong, P. R. China TPV Display Technology (China) Co., Ltd. No. 106 Jinghai 3 Rd., BDA, 100176 Beijing, P. R. China TPV Display Technology (Xianyang) Co., Ltd No.1, Xingguang Avenue, Qindu District, Xianyang City Shaanxi, P.R. China TPV Display Technology (Beihai) Co., Ltd. China Electronic Beihai Industry Park, Northeast of the Crossing Between Taiwan Road and Jilin Road, Beihai City, Guangxi, P.R. China

- 9 Hefei Kaidi Weier Electronics Co., Ltd. Haier Color Television Workshop, No. 200 Fanhua Road, Econ. &Techno. Dev. Zone, Hefei, 230601 Anhui, P. R. China
- 10 TPV Displays Polska Sp. z o.o. ul. Zlotego Smoka 9 66-400, Gorzów Wlkp., Poland
- 11 EMEK INOVATIF ELEKTRIK VE ELEKTRONIK TEKNOLOJILERI SAN.TIC. A.S. Osman uzun caddesi No:25 Veliköy Organize Sanayi Bölgesi, Çerkezköy-Tekirdağ, Turkey
- 12 Novatech Technology GmbH Siemensring 66-68 47877 Willich Germany
- 13 TPV CIS Ltd.177A Moskovskoe Shosse, Shushary settlement,196626 St. Petersburg, Russian Federation
- 14 Envision Indústria de Produtos Eletrônicos Ltda. Av. Torquato Tapajós 2236, Flores - CEP -Manaus - AM, 69058-830, Brazil
- 15 Envision Industry of Electronic Products Ltd. 895, Joao Marcos Pozzetti Street, Industrial District II, Manaus - AM, 69075-215, Brazil
- 16 Envision Industry of Electronic Products Ltd. Av Torquato Tapajós 7503, Galpão : II Bloco: Bcondomínio de Galpões-Tarumã-Manaus, - AM, 69041-025, Brazil
- 17 Fabrica Austral de Productos Electricos SA Islas Malvinas 1180 (V9420AIR) Rio Grande Tierra del Fuego, Argentina
- Digital Fueguina S.A Combate de Montevideo 1141, CP 9420 Rio-Grande - Tierra del Fuego, Argentina
- 19 Trend Smart CE Mexico S de RL de CV Avenida Sor Juana Ines de la Cruz de 19602 Nueva Tijuana, 22435 Tijuana Baja California, MEXICO
- 20 CJ CENTURY TECHNOLOGY SDN. BHD.
 LOT 4A, JALAN SULTAN MOHAMED 3
 KAWASAN PERINDUSTRIAN BANDAR
 SULTAN SULEIMAN PORT KLANG 42000
 SELANGOR DARUL EHSAN, Malaysia
- 21 Pro Concept Manufacturer Co., Ltd 88/1 Moo 12, Soi Phetkasem120, Phetkasem Road, Omnoi, Krathumbaen, Samutsakorn 74130, Thailand
- Cal-Comp Electronics (Thailand) Public Co., Ltd.
 Moo 8, Sethakij Rd., Klong Maduea, Kratoom Bean, Samut Sakhon 74110, Thailand
- 23 Pt.Tridharma Kencana Gudang Berikat, Jl.Raya Serang Jakarta,Km. 12 No 66, Kelurahan Cisait, Kecamatan Keragilan, Serang, Banten, Jakarta, Indonesia

<u> </u>	
24	AMTEC ELECTRONICS CORPORATION
	Plot A, No. 10A, 01 street, Hiep Phuoc industrial
	park, Long Thoi commune, Nha Be district, Ho
	Chi Minh city 700000, Vietnam
25	MIRC Electronics Ltd
	Onida House, G-1 MIDC, Mahakali Caves Road, Andheri (E), Mumbai 400093, India
26	Dixon Technologies (India) Ltd.
	EMC-2, Shed No. 2,4,5,6 & 7, Near Tirupati
	Airport, Village Govindhavaram, Munagalapalem
	Post, Revenue Vikruthamala, Yerpedu
	Mandelam, District-Chittoor, Andhra Pradesh,
	517526, India
27	
	No.267 Mu7, Tha Tum Sub- District, Si Maha
	Pho District, Prachin Buri Province, Thailand
28)
	Longmeadow Business Estate, 14 Angus
	Crescent, Longmeadow East, 1609 Postnet
	Suite #433, Private Bag X 1 Melrose Arch, 2076,
20	South Africa
29	3 ()/
	46 Siphosethu Road, Mount Edgecombe 4300
20	Kwa-Zulu Natal, South Africa
30	Arab Company for Computer Manufacturer El Obour City, Industrial Zone A, Lot 14, Block
	12006 Egypt
	12000 Lgypt

General product information and other remarks:

Product Description -

The equipment is an LCD TV Set with LED backlight for audio/video use in the scope of this standard. The equipment is incorporated with following critical parts:

- TFT LCD module with LED backlight type.
- Approved building-in type switching power supply board 715GF247 (only for construction 3, refer to appended table 14 for source details), which is combined with secondary decoding circuit and data ports for connecting with additional equipment. The power board mentioned above is abbreviated as "approved PSU" in this report.
- Plastic enclosure (refer to appended table 14 for source details).
- T-con board (all secondary circuits).
- Key control board (all secondary circuits).
- Two speaker sets (Optional used).
- Models are identical except for type designation and user function setting.

Table: Definition of variable(s):

Variable:	Range of variable:	Content:
*	0-9, A-Z, a-z, -, /, + or blank	For marketing purpose only, no technical difference.

Additional information:

- 1. The product fulfils the requirements of BS EN IEC 62368-1: 2020 + A11:2020;
- 2. There were some ambient lights located on the plastic enclosure. Four ambient lights were tested according to IEC 62471-1:2006/EN62471-1:2008 by SGS:
 - a) LED type GPTM8524RGBD1-D manufacturer by Xiamen Guangpu Electronics, report No. GZES141001183831;
 - b) LED type P5018-2K15 manufacturer by EVERLIGHT Electronics, report No. OC-2015-90054;
 - c) LED type LTX-X45T manufacturer by LITE-ON technology, report No. OC-2015-90039;
 - d) LED type ES8523S/RGBW-Z3-A, ES8523S/RGBW-Z3-B manufacturer by Shenzhen Hengyaoda Technology Co., Ltd., report No. 434877.

OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS				
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: L/N pin of appliance inlet	Ordinary			Bleeder Resistors
ES3: Primary circuits (Switching Power Supply primary parts)	Ordinary	Air gap	Enclosure	Transformers, Y-caps, Photo couple
ES1: VLED output of Switching Power Supply	Ordinary	N/A	N/A	N/A
ES1: 12V output of Switching Power Supply	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire		<u> </u>	
Class and Energy Source	Material part		Safeguards	
(e.g. PS2: 100 Watt circuit)	(e.g. Printed board)	В	1 st S	2 nd S
PS3 circuit	Internal wiring material	See 6.3.1	Equipment safeguards (rated VW-1, see 6.5 for details)	
PS3 circuit	Plastic Enclosure	See 6.3.1	See 6.4.3 and 6.4.7 (V-1 class material)	
PS2 circuit	LED ambient lights	Ignition not occur	Mounted on V-1 min. PCB	
PS1 circuit	Speakers and Key board	N/A	N/A	N/A
7	All circuits on main board exc board	ept for USB typ	e-C and all data	ports of main
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
MS3: Wall mount	Ordinary			Compliance with test 8.7.2
MS2: Equipment mass	Ordinary			Compliance with test 8.6
MS1: Sharp edges and corners	Ordinary	N/A	N/A	N/A
9	Thermal burn			

Class and Energy Source	Body Part	Safeguards			
(e.g. TS1: Keyboard caps)	(e.g., Ordinary)	В	S	R	
TS1: Accessible parts	Ordinary	N/A	N/A	N/A	
10	Radiation				
Class and Energy Source	Body Part	Safeguards			
(e.g. RS1: PMP sound output) (e.g., Ordinary)	В	S	R		
RS1: Indicating lights	Ordinary	N/A	N/A	N/A	
RS1: LED ambient lamp	Ordinary	N/A	N/A	N/A	
RS1: LED backlight of LCD panel	Ordinary	N/A	N/A	N/A	

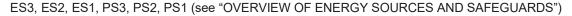
Supplementary Information:

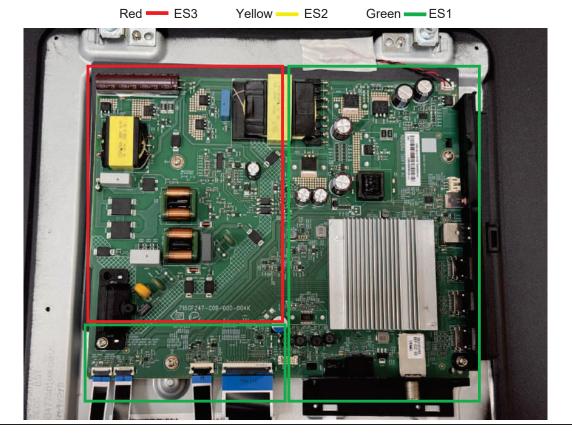
"B" - Basic Safeguard; "S" - Supplementary Safeguard; "R" - Reinforced Safeguard

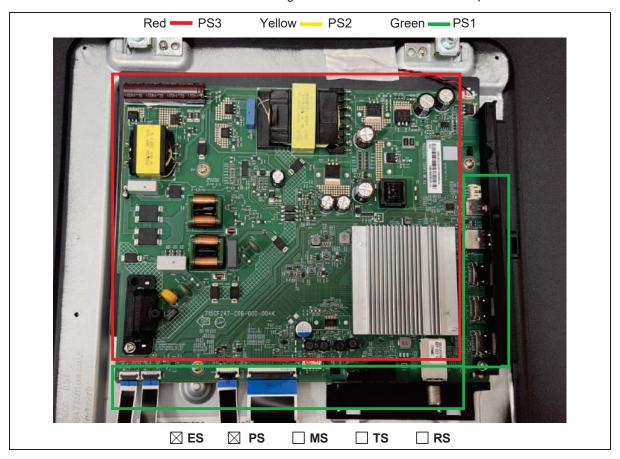
ENERGY SOURCE DIAGRAM

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

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







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Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2.	Р
4.1.2	Use of components	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.	Р
4.1.3	Equipment design and construction	No accessible part which could cause injury.	Р
4.1.4	Specified ambient temperature for outdoor use (°C)		N/A
4.1.5	Constructions and components not specifically covered	Considered.	Р
4.1.8	Liquids and liquid filled components (LFC)	(See G.15)	N/A
4.1.15	Markings and instructions	(See Annex F)	Р
4.4.3	Safeguard robustness	For adhesives securing parts serving as safeguards, see Annex P.4.	Р
		Others see below.	
4.4.3.1	General		Р
4.4.3.2	Steady force tests	(See Clause T.3, T.5)	Р
4.4.3.3	Drop tests		N/A
4.4.3.4	Impact tests	See Annex T.6	Р
4.4.3.5	Internal accessible safeguard tests		N/A
4.4.3.6	Glass impact tests	Used with glass that is laminated or has a construction such that glass particles do not separate from each other if the glass is broken.	N/A
4.4.3.7	Glass fixation tests	No such construction.	N/A
	Glass impact test (1J)		N/A
	Push/pull test (10 N)		N/A
4.4.3.8	Thermoplastic material tests	Phenolic material used and described in Annex T.8, no deformation on all sources of plastic enclosure.	Р
4.4.3.9	Air comprising a safeguard		Р
4.4.3.10	Accessibility, glass, safeguard effectiveness	Compliance checked.	Р
4.4.4	Displacement of a safeguard by an insulating liquid	No such component.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
4.4.5	Safety interlocks		N/A
4.5	Explosion		Р
4.5.1	General	No explosion occurs during normal/abnormal operation and single fault conditions.	Р
4.5.2	No explosion during normal/abnormal operating condition	(See Clause B.2, B.3)	Р
	No harm by explosion during single fault conditions	(See Clause B.4)	Р
4.6	Fixing of conductors		Р
	Fix conductors not to defeat a safeguard	Screws with toothed washer fixing earthed PCB trace to metal chassis for protective bonding conductor.	Р
	Compliance is checked by test:	(See Clause T.2)	Р
4.7	Equipment for direct insertion into mains socket	-outlets	N/A
4.7.2	Mains plug part complies with relevant standard:		N/A
4.7.3	Torque (Nm):		N/A
4.8	Equipment containing coin/button cell batteries		N/A
4.8.1	General	No lithium coin/button batteries used.	N/A
4.8.2	Instructional safeguard:		N/A
4.8.3	Battery compartment door/cover construction		N/A
	Open torque test		N/A
4.8.4.2	Stress relief test		N/A
4.8.4.3	Battery replacement test		N/A
4.8.4.4	Drop test		N/A
4.8.4.5	Impact test		N/A
4.8.4.6	Crush test		N/A
4.8.5	Compliance		N/A
	30N force test with test probe		N/A
	20N force test with test hook		N/A
4.9	Likelihood of fire or shock due to entry of condu	ctive object	Р
4.10	Component requirements		Р
4.10.1	Disconnect Device	(See Annex L)	Р
4.10.2	Switches and relays		N/A

5	ELECTRICALLY-CAUSED INJURY	Р
5.2	Classification and limits of electrical energy sources	Р

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Clause	Requirement + Test	Result - Remark	Verdict
5.2.2	ES1, ES2 and ES3 limits	Evaluated in approved SPS.	Р
5.2.2.2	Steady-state voltage and current limits:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits ::	ES3.	N/A
5.2.2.4	Single pulse limits:		N/A
5.2.2.5	Limits for repetitive pulses:		N/A
5.2.2.6	Ringing signals		N/A
5.2.2.7	Audio signals	(See Clause E.1)	Р
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	Evaluated in approved SPS.	Р
5.3.1 b)	Skilled persons not unintentional contact ES3 bare conductors	See above.	Р
5.3.2.1	Accessibility to electrical energy sources and safeguards	ES2 or ES3 source cannot accessed by ordinary persons and ES3 source cannot accessed by instructed persons.	Р
		Double or reinforced safeguard is provided between ES2 or ES3 and ordinary persons or instructed persons.	
	Accessibility to outdoor equipment bare parts		N/A
5.3.2.2	Contact requirements	See below.	Р
	Test with test probe from Annex V	Test probe V.1, V.2 applied.	
5.3.2.2 a)	Air gap – electric strength test potential (V):	(See appended table 5.4.9)	Р
5.3.2.2 b)	Air gap – distance (mm):	Complied with the minimum distance requirement.	Р
		(See appended table 5.4.2, 5.4.3.)	
5.3.2.3	Compliance		Р
5.3.2.4	Terminals for connecting stripped wire	No such terminals.	N/A
5.4	Insulation materials and requirements		Р
5.4.1.2	Properties of insulating material	Hygroscopic materials are not used for insulating material.	Р
5.4.1.3	Material is non-hygroscopic	(See sub-clause 5.4.8)	Р
5.4.1.4	Maximum operating temperature for insulating materials:	(See appended table 5.4.1.4)	Р
5.4.1.5	Pollution degrees:	Pollution degree 2	Р
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		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	Approved SPS used.	Р
5.4.1.9	Insulating surfaces		Р
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	Approved SPS used.	Р
5.4.1.10.2	Vicat test		N/A
5.4.1.10.3	Ball pressure test		N/A
5.4.2	Clearances	Approved SPS used, also see appended table 5.4.2, 5.4.3.	Р
5.4.2.1	General requirements	See above.	Р
	Clearances in circuits connected to AC Mains, Alternative method	See below.	Р
5.4.2.2	Procedure 1 for determining clearance	(See appended table 5.4.2, 5.4.3.)	Р
	Temporary overvoltage	2000V	_
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	2500V	_
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:	(See appended table 5.4.2)	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	Multiplication factor is 1.22 for altitude up to 3500m.	Р
5.4.2.6	Clearance measurement	(See appended table 5.4.2)	Р
5.4.3	Creepage distances		Р
5.4.3.1	General		Р
5.4.3.3	Material group	Material group IIIb assumed.	_
5.4.3.4	Creepage distances measurement	(See appended table 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

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.5	Insulating compound forming cemented joints		N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material		N/A
	Number of layers (pcs)		N/A
5.4.4.6.3	Non-separable thin sheet material		N/A
	Number of layers (pcs)		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material		N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz, E_P , K_R , d , V_{PW} (V)		N/A
	Alternative by electric strength test, tested voltage (V), K _R		N/A
5.4.5	Antenna terminal insulation		Р
5.4.5.1	General	See below.	Р
5.4.5.2	Voltage surge test		Р
5.4.5.3	Insulation resistance (MΩ)	More than 4.	Р
	Electric strength test		N/A
5.4.6	Insulation of internal wire as part of supplementary safeguard		N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning		Р
	Relative humidity (%), temperature (°C), duration (h):	Performed at 40 °C, 93% R.H. for 120h.	_
5.4.9	Electric strength test		Р
5.4.9.1	Test procedure for type test of solid insulation:	(See appended table 5.4.9)	Р
5.4.9.2	Test procedure for routine test		N/A
5.4.10	Safeguards against transient voltages from external circuits		N/A
5.4.10.1	Parts and circuits separated from external circuits		N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test:		N/A
5.4.10.2.3	Steady-state test:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.10.3	Verification for insulation breakdown for impulse test		N/A
5.4.11	Separation between external circuits and earth		N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A
	SPDs bridge separation between external circuit and earth		N/A
	Rated operating voltage U _{op} (V):		_
	Nominal voltage U _{peak} (V):		_
	Max increase due to variation ΔU _{sp} :		_
	Max increase due to ageing ΔU_{sa} :		_
5.4.11.3	Test method and compliance:		N/A
5.4.12	Insulating liquid		N/A
5.4.12.1	General requirements		N/A
5.4.12.2	Electric strength of an insulating liquid:		N/A
5.4.12.3	Compatibility of an insulating liquid:		N/A
5.4.12.4	Container for insulating liquid:		N/A
5.5	Components as safeguards		Р
5.5.1	General		Р
5.5.2	Capacitors and RC units	Approved SPS used.	Р
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:		N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers		N/A
5.5.5	Relays		N/A
5.5.6	Resistors		N/A
5.5.7	SPDs		N/A
5.5.8	Insulation between the mains and an external circuit consisting of a coaxial cable:		N/A
5.5.9	Safeguards for socket-outlets in outdoor equipment		N/A
	RCD rated residual operating current (mA):		_
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors		N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.6.2.1	General requirements	Class II equipment.	N/A
5.6.2.2	Colour of insulation		N/A
5.6.3	Requirement for protective earthing conductors		N/A
	Protective earthing conductor size (mm²):		_
	Protective earthing conductor serving as a reinforced safeguard		N/A
	Protective earthing conductor serving as a double safeguard		N/A
5.6.4	Requirements for protective bonding conductors		N/A
5.6.4.1	Protective bonding conductors		N/A
	Protective bonding conductor size (mm²):		
5.6.4.2	Protective current rating (A):		N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Terminal size for connecting protective earthing conductors (mm):		N/A
	Terminal size for connecting protective bonding conductors (mm):		N/A
5.6.5.2	Corrosion		N/A
5.6.6	Resistance of the protective bonding system		N/A
5.6.6.1	Requirements		N/A
5.6.6.2	Test Method:		N/A
5.6.6.3	Resistance (Ω) or voltage drop:		N/A
5.6.7	Reliable connection of a protective earthing conductor		N/A
5.6.8	Functional earthing		N/A
	Conductor size (mm²)		N/A
	Class II with functional earthing marking:		N/A
	Appliance inlet cl & cr (mm):		N/A
5.7	Prospective touch voltage, touch current and pro	otective conductor current	Р
5.7.2	Measuring devices and networks		Р
5.7.2.1	Measurement of touch current	Figure 4 of IEC 60990 was used in determining of the limit of ES1; Figure 5 of IEC 60990 was used in determining of the limit of ES2.	Р
5.7.2.2	Measurement of voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections		N/A
5.7.4	Unearthed accessible parts:	(See appended table 5.7.4)	Р

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Clause	Requirement + Test	Result - Remark	Verdict
5.7.5	Earthed accessible conductive parts:		N/A
5.7.6	Requirements when touch current exceeds ES2 limits		N/A
	Protective conductor current (mA)		N/A
	Instructional Safeguard		N/A
5.7.7	Prospective touch voltage and touch current associated with external circuits		N/A
5.7.7.1	Touch current from coaxial cables		N/A
5.7.7.2	Prospective touch voltage and touch current associated with paired conductor cables		N/A
5.7.8	Summation of touch currents from external circuits		N/A
	a) Equipment connected to earthed external circuits, current (mA):		N/A
	b) Equipment connected to unearthed external circuits, current (mA):		N/A
5.8	Backfeed safeguard in battery backed up suppli	es	N/A
	Mains terminal ES		N/A
	Air gap (mm):		N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of PS and PIS		Р
6.2.2	Power source circuit classifications:	See ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE.	Р
6.2.3	Classification of potential ignition sources		Р
6.2.3.1	Arcing PIS:	All components located within power board are considered as arcing PIS.	Р
6.2.3.2	Resistive PIS	All components located within the equipment are considered as resistive PIS.	Р
6.3	Safeguards against fire under normal operating and abnormal operating conditions		Р
6.3.1	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table B.1.5 and B.3)	Р
	Combustible materials outside fire enclosure:	Min. HB	Р
6.4	Safeguards against fire under single fault conditi	ons	Р

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.1	Safeguard method	The methods "Control fire spread" and "Reduce the likelihood of ignition" are selected.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		N/A
6.4.3.1	Supplementary safeguards		N/A
6.4.3.2	Single Fault Conditions		N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits	See below.	Р
6.4.5.2	Supplementary safeguards	Compliance detailed as follows: - Printed board: rated min. V-1 - Wire insulation and tubing: complying with Clause 6.5 - All other components: at least V-2 except for mounted on min. V-1 material or small parts of combustible material or components complying to relevant IEC standard; have a mass of combustible material of less than 4g - Isolating transformer: complying with G.5.3. (See appended tables 4.1.2 and Annex G)	P
6.4.6	Control of fire spread in PS3 circuits	Providing fire enclosure for PS3 circuit.	Р
6.4.7	Separation of combustible materials from a PIS	The plastic enclosure is made of V-0 class min.	Р

6.4.7.2 Separation by distance 6.4.7.3 Separation by a fire barrier 6.4.8 Fire enclosures and fire barr 6.4.8.2 Fire enclosure and fire barr 6.4.8.2.1 Requirements for a fire barr 6.4.8.2.2 Requirements for a fire enclosure and a fire barrier 6.4.8.3 Constructional requirement and a fire barrier 6.4.8.3.1 Fire enclosure and fire barr 6.4.8.3.2 Fire barrier dimensions	rriers	For opening of SERV.U port: The distance between a PIS and combustible materials is less than specified in Figure 37 and Figure 38 as applicable, the combustible materials of plastic enclosure is made by material of V-0 or better. And opening of SERV.U port is not fall in Volume of PS3 component shown as Figure 37 and Figure 38 as applicable. No hazards.	P N/A
6.4.7.3 Separation by a fire barrier 6.4.8 Fire enclosures and fire barr 6.4.8.2 Fire enclosure and fire barr 6.4.8.2.1 Requirements for a fire barr 6.4.8.2.2 Requirements for a fire enclosure and a fire barrier 6.4.8.3 Constructional requirement and a fire barrier 6.4.8.3.1 Fire enclosure and fire barr	rriers	The distance between a PIS and combustible materials is less than specified in Figure 37 and Figure 38 as applicable, the combustible materials of plastic enclosure is made by material of V-0 or better. And opening of SERV.U port is not fall in Volume of PS3 component shown as Figure 37 and Figure 38 as applicable. No	
6.4.8 Fire enclosures and fire barr 6.4.8.2 Fire enclosure and fire barr 6.4.8.2.1 Requirements for a fire barr 6.4.8.2.2 Requirements for a fire enc 6.4.8.3 Constructional requirement and a fire barrier 6.4.8.3.1 Fire enclosure and fire barr	rriers		N/A
6.4.8.2 Fire enclosure and fire barr 6.4.8.2.1 Requirements for a fire barr 6.4.8.2.2 Requirements for a fire enc 6.4.8.3 Constructional requirement and a fire barrier 6.4.8.3.1 Fire enclosure and fire barr			
6.4.8.2.1 Requirements for a fire barr 6.4.8.2.2 Requirements for a fire enc 6.4.8.3 Constructional requirement and a fire barrier 6.4.8.3.1 Fire enclosure and fire barr	ier material properties		Р
6.4.8.2.2 Requirements for a fire enc 6.4.8.3 Constructional requirement and a fire barrier 6.4.8.3.1 Fire enclosure and fire barr		See below	Р
6.4.8.3 Constructional requirement and a fire barrier 6.4.8.3.1 Fire enclosure and fire barr	rier		N/A
and a fire barrier 6.4.8.3.1 Fire enclosure and fire barr	losure	V-0 plastic enclosure used as fire enclosure.	Р
	s for a fire enclosure		Р
6.4.8.3.2 Fire barrier dimensions	ier openings		Р
			N/A
6.4.8.3.3 Top openings and properties	es		Р
Openings dimensions (mm)):	Numerous rectangle opening: Max. 4.5mm for diagonal. Openings do not exceed 5mm in any dimension. No hazards.	Р
6.4.8.3.4 Bottom openings and prope	erties		Р
Openings dimensions (mm)):	 Numerous rectangle openings: Max. 2.6mm for diagonal. Openings do not exceed 3mm in any dimension. No hazards; Eight circle openings for installed stand base: 5.6mm. No opening was fall in Volume of PS3 component shown as 	Р
Flammability tests for the be	ottom of a fire enclosure	Figure 41 and Figure 42 as applicable. No hazards.	N/A
Instructional Safeguard			N/A
6.4.8.3.5 Side openings and propertie			P

6.6	Safeguards against fire due to the connection to	additional equipment	Р
6.5.3	Internal wiring size (mm²) for socket-outlets:		N/A
6.5.2	Requirements for interconnection to building wiring		N/A
		Furthermore, the test method described in IEC 60695-11-21 is considered equivalent to that test wiring materials for VW-1. All internal wiring are using VW-1 material.	
6.5.1	General requirements	Internal or external wiring materials are compliant with IEC 60950-1 according to Subclause 4.1.1.	Р
6.5	Internal and external wiring		Р
6.4.9	Flammability of insulating liquid:		N/A
6.4.8.4	Separation of a PIS from a fire enclosure and a fire barrier distance (mm) or flammability rating:	V-0 plastic enclosure used as fire enclosure.	Р
6.4.8.3.6	Integrity of a fire enclosure, condition met: a), b) or c):		N/A
	Openings dimensions (mm):	Numerous rectangle opening: Max. 2.6mm for diagonal. Openings do not exceed 3mm in any dimension. No hazards.	Р
Clause	Requirement + Test	Result - Remark	Verdict
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7	INJURY CAUSED BY HAZARDOUS SUBSTANCES	
7.2	Reduction of exposure to hazardous substances	
7.3	Ozone exposure	
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	No sharp edges and corners in accessible area.	Р

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Clause	Requirement + Test	Result - Remark	Verdict
	Instructional Safeguard:		N/A
8.4.2	Sharp edges or corners		N/A
8.5	Safeguards against moving parts		N/A
8.5.1	Fingers, jewellery, clothing, hair, etc., contact with MS2 or MS3 parts		N/A
	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
	Moving MS3 parts only accessible to skilled person		N/A
8.5.2	Instructional safeguard:		N/A
8.5.4	Special categories of equipment containing moving parts		N/A
8.5.4.1	General		N/A
8.5.4.2	Equipment containing work cells with MS3 parts		N/A
8.5.4.2.1	Protection of persons in the work cell		N/A
8.5.4.2.2	Access protection override		N/A
8.5.4.2.2.1	Override system		N/A
8.5.4.2.2.2	Visual indicator		N/A
8.5.4.2.3	Emergency stop system		N/A
	Maximum stopping distance from the point of activation (m)		N/A
	Space between end point and nearest fixed mechanical part (mm):		N/A
8.5.4.2.4	Endurance requirements		N/A
	Mechanical system subjected to 100 000 cycles of operation		N/A
	- Mechanical function check and visual inspection		N/A
	- Cable assembly		N/A
8.5.4.3	Equipment having electromechanical device for destruction of media		N/A
8.5.4.3.1	Equipment safeguards		N/A
8.5.4.3.2	Instructional safeguards against moving parts:		N/A
8.5.4.3.3	Disconnection from the supply		N/A
8.5.4.3.4	Cut type and test force (N)		N/A
8.5.4.3.5	Compliance		N/A
8.5.5	High pressure lamps	Not that equipment.	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		Р
8.6.1	General	See below	Р
	Instructional safeguard	Provided in user's manual.	Р
8.6.2	Static stability		Р
8.6.2.2	Static stability test:	Unit did not fall over when tilted to an angle of 10° from its normal upright position.	Р
8.6.2.3	Downward force test	Not floor standing equipment.	N/A
8.6.3	Relocation stability		N/A
	Wheels diameter (mm)		_
	Tilt test		N/A
8.6.4	Glass slide test	The equipment does not tip over during the test.	Р
8.6.5	Horizontal force test		N/A
8.7	Equipment mounted to wall, ceiling or other struc	cture	Р
8.7.1	Mount means type	No wall mounting system provided. Only four M6 x 9mm screws evaluated.	Р
8.7.2	Test methods		Р
	Test 1, additional downwards force (N)		N/A
	Test 2, number of attachment points and test force (N):	9.8kg applied for each point (four directions plus inward and outward).	Р
	Test 3 Nominal diameter (mm) and applied torque (Nm):	2.5Nm applied.	Р
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

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Clause	Requirement + Test	Result - Remark	Verdict
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability		N/A
	Force applied (N)		_
8.10.6	Thermoplastic temperature stability		N/A
8.11	Mounting means for slide-rail mounted equipmen	nt (SRME)	N/A
8.11.1	General		N/A
8.11.2	Requirements for slide rails		N/A
	Instructional Safeguard		N/A
8.11.3	Mechanical strength test		N/A
8.11.3.1	Downward force test, force (N) applied		N/A
8.11.3.2	Lateral push force test		N/A
8.11.3.3	Integrity of slide rail end stops		N/A
8.11.4	Compliance		N/A
8.12	Telescoping or rod antennas		N/A
	Button/ball diameter (mm):		_

9	THERMAL BURN INJURY		Р
9.2	Thermal energy source classifications		Р
9.3	Touch temperature limits		Р
9.3.1	Touch temperatures of accessible parts:	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
9.3.2	Test method and compliance	(See appended table 5.4.1.4, 9.3, B.1.5, B.2.6)	Р
9.4	Safeguards against thermal energy sources		N/A
9.5	Requirements for safeguards		N/A
9.5.1	Equipment safeguard	TS1 considered.	N/A
9.5.2	Instructional safeguard:		N/A
9.6	Requirements for wireless power transmitters		N/A
9.6.1	General		N/A
9.6.2	Specification of the foreign objects		N/A
9.6.3	Test method and compliance:	(See appended table 9.6)	N/A

10	RADIATION		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification	The following parts are considered as RS1 without	Р

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Clause	Requirement + Test	Result - Remark	Verdict
		tests:	
		 Indicating lights; LED ambient lamp; LED backlight of LCD panel comply with IEC 62471:2008 are regards as RS1. 	
	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 LED types)	and lamp systems (including	N/A
10.4.1	General requirements		N/A
	Instructional safeguard provided for accessible radiation level needs to exceed		N/A
	Risk group marking and location:		N/A
	Information for safe operation and installation		N/A
10.4.2	Requirements for enclosures		N/A
	UV radiation exposure:		N/A
10.4.3	Instructional safeguard:		N/A
10.5	Safeguards against X-radiation		N/A
10.5.1	Requirements		N/A
	Instructional safeguard for skilled persons:		_
10.5.3	Maximum radiation (pA/kg):		_
10.6	Safeguards against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification		N/A
	Acoustic output L _{Aeq,T} , dB(A):		N/A
	Unweighted RMS output voltage (mV):		N/A
	Digital output signal (dBFS):		N/A
10.6.3	Requirements for dose-based systems		N/A
10.6.3.1	General requirements		N/A
10.6.3.2	Dose-based warning and automatic decrease		N/A

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

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Р
B.1	General		Р
B.1.5	Temperature measurement conditions	(See appended table B.1.5)	Р
B.2	Normal operating conditions		Р
B.2.1	General requirements	(See Test Item Particulars and appended test tables)	Р
	Audio Amplifiers and equipment with audio amplifiers	For internal speakers, adjusted to volume with 1kHz recorder adjusted to maximum one-eight non-clipped output power.	Р
B.2.3	Supply voltage and tolerances		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 table B.3, B.4)	Р
B.3.2	Covering of ventilation openings	(See appended table B.3, B.4)	Р
	Instructional safeguard		N/A
B.3.3	DC mains polarity test		N/A
B.3.4	Setting of voltage selector		N/A
B.3.5	Maximum load at output terminals	(See appended table B.3, B.4)	Р
B.3.6	Reverse battery polarity		N/A
B.3.7	Audio amplifier abnormal operating conditions	(See appended table B.3, B.4)	Р

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Clause	Requirement + Test	Result - Remark	Verdict
B.3.8	Safeguards functional during and after abnormal operating conditions	(See appended table B.3, B.4)	Р
B.4	Simulated single fault conditions		Р
B.4.1	General	Approved SPS used, also see appended table B.3, B.4	Р
B.4.2	Temperature controlling device		N/A
B.4.3	Blocked motor test		N/A
B.4.4	Functional insulation		N/A
B.4.4.1	Short circuit of clearances for functional insulation		N/A
B.4.4.2	Short circuit of creepage distances for functional insulation		N/A
B.4.4.3	Short circuit of functional insulation on coated printed boards		N/A
B.4.5	Short-circuit and interruption of electrodes in tubes and semiconductors		N/A
B.4.6	Short circuit or disconnection of passive components		N/A
B.4.7	Continuous operation of components		N/A
B.4.8	Compliance during and after single fault conditions	(See appended table B.3, B.4)	Р
B.4.9	Battery charging and discharging under single fault conditions		N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV rac	diation	N/A
C.1.2	Requirements		N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure test		N/A
C.2.4	Xenon-arc light-exposure test		N/A
D	TEST GENERATORS	·	N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINI	NG AUDIO AMPLIFIERS	N/A
E.1	Electrical energy source classification for audio	signals	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Maximum non-clipped output power (W):	Internal speaker and its supply circuit cannot be accessible by ordinary person.	_
	Rated load impedance (Ω)		_
	Open-circuit output voltage (V)		_
	Instructional safeguard		_
E.2	Audio amplifier normal operating conditions		N/A
	Audio signal source type:		_
	Audio output power (W):		_
	Audio output voltage (V):		_
	Rated load impedance (Ω):		_
	Requirements for temperature measurement		N/A
E.3	Audio amplifier abnormal operating conditions		N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND I 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		N/A
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 provided and is readily visible in operator access area.	Р
F.3.2	Equipment identification markings	See below.	Р
F.3.2.1	Manufacturer identification:	See copy of marking plate.	Р
F.3.2.2	Model identification	See copy of marking plate.	Р
F.3.3	Equipment rating markings	See below.	Р
F.3.3.1	Equipment with direct connection to mains	See below.	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

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Clause	Requirement + Test	Result - Remark	Verdict
F.3.3.6	Rated current or rated power:	See copy of marking plate.	Р
F.3.3.7	Equipment with multiple supply connections		N/A
F.3.4	Voltage setting device		N/A
F.3.5	Terminals and operating devices		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	Approved SPS used.	N/A
	Instructional safeguards for neutral fuse:	No such fuse used.	N/A
F.3.5.4	Replacement battery identification marking:		N/A
F.3.5.5	Neutral conductor terminal		N/A
F.3.5.6	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification	See below.	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:		N/A
F.3.8	External power supply output marking:		N/A
F.3.9	Durability, legibility and permanence of marking	See below.	Р
F.3.10	Test for permanence of markings	Marking is durable and legible. The marking plate has no curling and is not able to be removed easily.	Р
F.4	Instructions		Р
	a) Information prior to installation and initial use	Provided in user's manual.	Р
	b) Equipment for use in locations where children not likely to be present	Figure V.1 considered for test.	N/A
	c) Instructions for installation and interconnection	Provided in user's manual.	Р
	d) Equipment intended for use only in restricted access area		N/A
	e) Equipment intended to be fastened in place	Provided in user's manual.	Р
	f) Instructions for audio equipment terminals		N/A
	g) Protective earthing used as a safeguard		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	h) Protective conductor current exceeding ES2 limits		N/A
	i) Graphic symbols used on equipment	Graphical symbols not used as an instructional safeguard.	N/A
	j) Permanently connected equipment not provided with all-pole mains switch		N/A
	k) Replaceable components or modules providing safeguard function		N/A
	I) Equipment containing insulating liquid		N/A
	m) Installation instructions for outdoor equipment		N/A
F.5	Instructional safeguards		N/A
G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General		N/A
G.1.2	Ratings, endurance, spacing, maximum load		N/A
G.1.3	Test method and compliance		N/A
G.2	Relays		N/A
G.2.1	Requirements		N/A
G.2.2	Overload test		N/A
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		Р
G.3.1	Thermal cut-offs		N/A
	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Test method and compliance		N/A
G.3.2	Thermal links		N/A
G.3.2.1	a) Thermal links tested separately according to IEC 60691 with specifics		N/A
	b) Thermal links tested as part of the equipment		N/A
G.3.2.2	Test method and compliance		N/A
G.3.3	PTC thermistors		N/A
G.3.4	Overcurrent protection devices	Approved SPS used.	Р
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions		N/A
G.4	Connectors		Р
G.4.1	Spacings	Approved SPS used.	Р
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	Approved SPS used.	Р
G.5	Wound components		Р
G.5.1	Wire insulation in wound components	Approved SPS used.	Р
G.5.1.2	Protection against mechanical stress	Approved SPS used.	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		Р
G.5.3.1	Compliance method	Approved SPS used.	Р
	Position:	See above.	Р
	Method of protection:	See above.	Р
G.5.3.2	Insulation	Approved SPS used.	Р
	Protection from displacement of windings:	See above.	_
G.5.3.3	Transformer overload tests	Approved SPS used.	Р
G.5.3.3.1	Test conditions	Approved SPS used.	Р
G.5.3.3.2	Winding temperatures	Approved SPS used.	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	Approved SPS used.	Р
G.5.3.4.4	Transformers with FIW wound on metal or ferrite core		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.5.3.4.5	Thermal cycling test and compliance		N/A
G.5.3.4.6	Partial discharge test		N/A
G.5.3.4.7	Routine test		N/A
G.5.4	Motors		N/A
G.5.4.1	General requirements		N/A
G.5.4.2	Motor overload test conditions		N/A
G.5.4.3	Running overload test		N/A
G.5.4.4.2	Locked-rotor overload test		N/A
	Test duration (days):		_
G.5.4.5	Running overload test for DC motors		N/A
G.5.4.5.2	Tested in the unit		N/A
G.5.4.5.3	Alternative method		N/A
G.5.4.6	Locked-rotor overload test for DC motors		N/A
G.5.4.6.2	Tested in the unit		N/A
	Maximum Temperature:		N/A
G.5.4.6.3	Alternative method		N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
	Operating voltage		_
G.6	Wire Insulation		Р
G.6.1	General		Р
G.6.2	Enamelled winding wire insulation		N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements		N/A
	Туре		_
G.7.2	Cross sectional area (mm² or AWG):		N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N)		N/A
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		N/A
G.7.3.2.4	Strain relief and cord anchorage material		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Test method and compliance		N/A
	Overall diameter or minor overall dimension, <i>D</i> (mm):		_
	Radius of curvature after test (mm)		
G.7.6	Supply wiring space		N/A
G.7.6.1	General requirements		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Requirements		N/A
G.7.6.2.2	Test with 8 mm strand		N/A
G.8	Varistors		Р
G.8.1	General requirements	Approved SPS used.	Р
G.8.2	Safeguards against fire	V-0 Plastic enclosure is made of combustible material and located less than 14 mm from the varistor, no further test was required.	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	1	Р
G.10.1	General	Bleeder Resistors (R9901, R9902, R9903, R9904, R9905 and R9906) are used in parallel. See Table 4.1.2 for the details.	Р
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

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Clause	Requirement + Test	Result - Remark	Verdict
G.11	Capacitors and RC units		Р
G.11.1	General requirements	Approved SPS used.	Р
G.11.2	Conditioning of capacitors and RC units		Р
G.11.3	Rules for selecting capacitors		Р
G.12	Optocouplers		Р
	Optocouplers comply with IEC 60747-5-5 with specifics	Approved SPS used.	Р
	Type test voltage V _{ini,a} :	See above.	_
	Routine test voltage, V _{ini, b}	See above.	_
G.13	Printed boards		Р
G.13.1	General requirements	See below.	Р
G.13.2	Uncoated printed boards	Approved SPS used.	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 ::		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

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Clause	Requirement + Test	Result - Remark	Verdict
	ICX tested separately	<u> </u>	N/A
G.16.2	Tests		N/A
0.10.2	Smallest capacitance and smallest resistance specified by ICX manufacturer for impulse test:		_
	Mains voltage that impulses to be superimposed on		_
	Largest capacitance and smallest resistance for ICX tested by itself for 10000 cycles test:		_
G.16.3	Capacitor discharge test		N/A
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General		N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz):		_
H.3.1.2	Voltage (V)		_
H.3.1.3	Cadence; time (s) and voltage (V):		_
H.3.1.4	Single fault current (mA)::		_
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)		N/A
J	INSULATED WINDING WIRES FOR USE WITHOU	T INTERLEAVED INSULATION	Р
J.1	General		Р
	Winding wire insulation:	Approved SPS used.	_
	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		_
K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
	Instructional safeguard:		N/A
K.2	Components of safety interlock safeguard mechanism		N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
K.5.1	Under single fault condition		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Test method and compliance:		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements		N/A
	In circuit connected to mains, separation distance for contact gaps (mm)		N/A
	In circuit isolated from mains, separation distance for contact gaps (mm):		N/A
	Electric strength test before and after the test of K.7.2		N/A
K.7.2	Overload test, Current (A):		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A
L	DISCONNECT DEVICES		Р
L.1	General requirements	Appliance Inlet as disconnect device.	Р
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized	When the power cord is removed from the inlet no remaining parts with hazardous voltage in the equipment.	Р
L.4	Single-phase equipment	The disconnect device disconnects 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 THE	IR PROTECTION CIRCUITS	N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Batteries and their cells comply with relevant IEC standards		N/A
M.3	Protection circuits for batteries provided within the equipment		N/A

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Clause	Requirement + Test Result - Remark	Verdict
M.3.1	Requirements	N/A
M.3.2	Test method	N/A
	Overcharging of a rechargeable battery	N/A
	Excessive discharging	N/A
	Unintentional charging of a non-rechargeable battery	N/A
	Reverse charging of a rechargeable battery	N/A
M.3.3	Compliance	N/A
M.4	Additional safeguards for equipment containing a portable secondary lithium battery	N/A
M.4.1	General	N/A
M.4.2	Charging safeguards	N/A
M.4.2.1	Requirements	N/A
M.4.2.2	Compliance:	N/A
M.4.3	Fire enclosure:	N/A
M.4.4	Drop test of equipment containing a secondary lithium battery	N/A
M.4.4.2	Preparation and procedure for the drop test	N/A
M.4.4.3	Drop, Voltage on reference and dropped batteries (V); voltage difference during 24 h period (%)::	N/A
M.4.4.4	Check of the charge/discharge function	N/A
M.4.4.5	Charge / discharge cycle test	N/A
M.4.4.6	Compliance	N/A
M.5	Risk of burn due to short-circuit during carrying	N/A
M.5.1	Requirement	N/A
M.5.2	Test method and compliance	N/A
M.6	Safeguards against short-circuits	N/A
M.6.1	External and internal faults	N/A
M.6.2	Compliance	N/A
M.7	Risk of explosion from lead acid and NiCd batteries	N/A
M.7.1	Ventilation preventing explosive gas concentration	N/A
	Calculated hydrogen generation rate:	N/A
M.7.2	Test method and compliance	N/A
	Minimum air flow rate, Q (m³/h):	N/A
M.7.3	Ventilation tests	N/A
M.7.3.1	General	N/A

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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 with aqueous electrolyte	spark sources of batteries	N/A
M.8.1	General		N/A
M.8.2	Test method		N/A
M.8.2.1	General		N/A
M.8.2.2	Estimation of hypothetical volume V_Z (m³/s):		
M.8.2.3	Correction factors		_
M.8.2.4	Calculation of distance d (mm):		_
M.9	Preventing electrolyte spillage		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		Р
	Material(s) used:	The internal metal enclosure is made of mild steel, screw spring washer are made of Ni on steel, the combined electrochemical potential is below 0.6V according to Annex N.	_
0	MEASUREMENT OF CREEPAGE DISTANCES AN	D CLEARANCES	Р
	Value of X (mm):	Considered.	_
Р	SAFEGUARDS AGAINST CONDUCTIVE OBJECTS		Р
P.1	General		Р
P.2	Safeguards against entry or consequences of en	try of a foreign object	Р
P.2.1	General	See below.	Р
P.2.2	Safeguards against entry of a foreign object		Р

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Clause	Requirement + Test	Result - Remark	Verdict
	Location and Dimensions (mm):	Numerous rectangle opening: Max. 4.5mm for diagonal. Openings do not exceed 5mm in any dimension. No hazards.	_
P.2.3	Safeguards against the consequences of entry of a foreign object	See above.	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 part	s	Р
P.4.1	General	Adhesive for mylar sheet is considered as safeguard.	Р
P.4.2	Tests	After test mentioned above, all safeguards remain effective.	Р
	Conditioning, T _C (°C):	100.0 for adhesive for Mylar	
	Duration (weeks):	1	_
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	Р
Q.1	Limited power sources		Р
Q.1.1	Requirements		Р
	a) Inherently limited output	(See appended table Annex Q.1)	Р
	b) Impedance limited output		N/A
	c) Regulating network limited output	(See appended table Annex 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

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	IEC 62368-1	T	
Clause	Requirement + Test	Result - Remark	Verdict
	Maximum output current (A):		N/A
	Current limiting method:		_
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General		N/A
R.2	Test setup		N/A
	Overcurrent protective device for test:		_
R.3	Test method		N/A
	Cord/cable used for test:		_
R.4	Compliance		N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE	<u> </u>	Р
S.1	Flammability test for fire enclosures and fire bar where the steady state power does not exceed 4		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		
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C):		
S.3	Flammability test for the bottom of a fire enclosu	re	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	See table 4.1.2 for detail.	Р
S.5	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4 000 W		N/A
	Samples, material:		_
	Wall thickness (mm):		_
	Conditioning (°C):		_

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Clause	Requirement + Test	Result - Remark	Verdict
Т	MECHANICAL STRENGTH TESTS	MECHANICAL STRENGTH TESTS	
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:		N/A
T.5	Steady force test, 250 N:	(See appended table T.5)	Р
T.6	Enclosure impact test	(See appended table T.6)	Р
	Fall test	A 500g steel sphere ball fell freely from rest through a vertical distance of 1300 mm onto the sample.	Р
	Swing test	A 500g steel sphere ball suspended by a cord droping through a vertical distance of 1300 mm onto the sample.	P
T.7	Drop test:		N/A
T.8	Stress relief test:	(See appended table T.8)	Р
T.9	Glass Impact Test:		N/A
T.10	Glass fragmentation test		N/A
	Number of particles counted:		N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm):		N/A
U	MECHANICAL STRENGTH OF CATHODE RAY TU AGAINST THE EFFECTS OF IMPLOSION	IBES (CRT) AND PROTECTION	N/A
U.1	General		N/A
	Instructional safeguard :		N/A
U.2	Test method and compliance for non-intrinsically	protected CRTs	N/A
U.3	Protective screen		N/A
V	DETERMINATION OF ACCESSIBLE PARTS		Р
V.1	Accessible parts of equipment	_	Р
V.1.1	General		Р
V.1.2	Surfaces and openings tested with jointed test probes		Р
V.1.3	Openings tested with straight unjointed test probes		Р
V.1.4	Plugs, jacks, connectors tested with blunt probe		N/A
V.1.5	Slot openings tested with wedge probe		N/A
V.1.6	Terminals tested with rigid test wire		Р

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Clause	Requirement + Test	Result - Remark	Verdict
V.2	Accessible part criterion	1	Р
X	ALTERNATIVE METHOD FOR DETERMINING CLE CIRCUITS CONNECTED TO AN AC MAINS NOT EX RMS)		N/A
	Clearance	(See appended table X)	N/A
Υ	CONSTRUCTION REQUIREMENTS FOR OUTDOO	R ENCLOSURES	N/A
Y.1	General		N/A
Y.2	Resistance to UV radiation		N/A
Y.3	Resistance to corrosion		N/A
Y.3	Resistance to corrosion		N/A
Y.3.1	Metallic parts of outdoor enclosures are resistant to effects of water-borne contaminants by:		N/A
Y.3.2	Test apparatus		N/A
Y.3.3	Water – saturated sulphur dioxide atmosphere		N/A
Y.3.4	Test procedure		N/A
Y.3.5	Compliance		N/A
Y.4	Gaskets		N/A
Y.4.1	General		N/A
Y.4.2	Gasket tests		N/A
Y.4.3	Tensile strength and elongation tests		N/A
	Alternative test methods		N/A
Y.4.4	Compression test		N/A
Y.4.5	Oil resistance		N/A
Y.4.6	Securing means	(See Annex P.4)	N/A
Y.5	Protection of equipment within an outdoor enclos	ure	N/A
Y.5.1	General		N/A
Y.5.2	Protection from moisture		N/A
	Relevant tests of IEC 60529 or Y.5.3		N/A
Y.5.3	Water spray test		N/A
Y.5.4	Protection from plants and vermin		N/A
Y.5.5	Protection from excessive dust		N/A
Y.5.5.1	General		N/A
Y.5.5.2	IP5X equipment		N/A
Y.5.5.3	IP6X equipment		N/A
Y.6	Mechanical strength of enclosures		N/A
Y.6.1	General		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
Y.6.2	Impact test:		N/A

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Clause	Requirement + Test		Result - Remark	Verdict

5.2	TABLE: Classificati	on of electrical e	nergy sour	ces			Р
Supply					Parameters		
Voltage	designation)		U (V)	I (mA)	Type ¹⁾	Additional Info ²⁾	Class
264V, 60Hz	VLED output	Normal		0.276mArms	SS		
	(CN8602 pin 1-3) of power board to "-" / GND	Abnormal – (see table B.3 for details, maximum result recorded)		0.276mArms	SS		ES1
		Single fault – (see table B.4 for details, maximum result recorded)		0.276mArms	SS		
264V, 60Hz	+12V output	Normal	12.1Vdc		SS		
	(After D9107) of power board to "-" / GND	Abnormal – (see table B.3 for details, maximum result recorded)	12.1Vdc		SS		ES1
		Single fault – (see table B.4 for details, maximum result recorded)	12.1Vdc		SS		

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

5.4.1.8	TABLE: Working voltage measurement						
Location		RMS voltage (V)	Peak voltage (V)	Frequency (Hz)	Comme	nts	
Supplementary information:							

	IEC 6236	8-1		
Clause	Requirement + Test	Result - Remar	k	Verdict

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

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics						
Allowed imp	ression diameter	(mm)	:	≤ 2 m	m		_
Object/Part	t/Part No./Material Manufacturer/trademark Thickness					ression eter (mm)	
Supplementary information:							

5.4.2, 5.4.3 TABLE: Minimum Clearances/Creepage distance						Р		
Clearance (cl) and creepage distance (cr) at/of/between:	U _p (V)	U _{rms} (V)	Freq 1) (Hz)	Required cl (mm)	cl (mm)	E.S. ²⁾ (V)	Required cr (mm)	cr (mm)
Reinforced:								
Primary live part and accessible metal part	420	250		3.7	>10 4.		5.0	>10 ^{4.}
Primary live part and secondary lead wires under 10N force	420	250		3.7	>10 4.		5.0	>10 ⁴ ·

- Note 1: Only for frequency above 30 kHz
- Note 2: Complete Electric Strength voltage (E.S. (V) when 5.4.2.4 applied)
- Note 3: Considered altitude correction factor 1.22 for clearances for an altitude of 3500m.
- Note 4: For clearance and creepage did not describe above are far larger than limit above.

5.4.4.2	TABLE: Minimum distance through insulation						
Distance thr (DTI) at/of	ough insulation	Peak voltage (V)	Insulation	Required DTI (mm)	Mea	sured DTI (mm)	
Plastic Enclo	osure (Rear cover)	420	Reinforced	0.4		appended ble 4.1.2	

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Clause	Requirement + Test	Result - Remark	Verdict
			•

Supplementary information:		

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

5.4.9	TABLE: Electric strength tests						
Test voltage applied between:		Voltage shape (Surge, Impulse, AC, DC, etc.)	Test voltage (V)	Breakdown Yes / No			
Reinforced:							
L/N to accessible plastic enclosure with metal foil		AC	4000		No		
Unit primary	to metal enclosure	AC	4000		No		
Unit primary	to secondary (output)	DC	DC 4000		No		
Supplement	Supplementary information:						
The tests m	Γhe tests mentioned above were performed after humidity test and heating test.						

5.5.2.2	TABLE: Stored discharge on capacitors						N/A
Location		Supply voltage (V)	Operating and fault condition 1)	Switch position	Measured voltage (Vpk)	E	S Class

X-capacitors installed for testing:

- [] bleeding resistor rating:
- [] ICX:
- 1) Normal operating condition (e.g., normal operation, or open fuse), SC= short circuit, OC= open circuit

5.6.6	TABLE: Resistance of	TABLE: Resistance of protective conductors and terminations					
Location		Test current (A)	Duration (min)	Voltage drop (V)	Re	sistance (Ω)	
Supplementary information:							

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

5.7.4	TABLI	E: Unearthed acces	ssible parts				Р
Location		Operating and	Supply	F	Parameters		ES
		fault conditions	Voltage (V)	Voltage (V _{rms} or V _{pk})	Current (A _{rms} or A _{pk})	Freq. (Hz)	class
L/N to All		Normal	264V, 60Hz		0.48mApk		
secondary port	Abnormal			0.48mApk		ES1	
			Single fault		0.48mApk		
L/N to plastic	ic	Normal	264V, 60Hz		0.47mApk		
enclosure		Abnormal			0.47mApk		ES1
		Single fault			0.47mApk		
L/N to pane		Normal	264V, 60Hz		0.01mApk		
		Abnormal			0.01mApk		ES1
		Single fault			0.01mApk		
Supplementary information:							
Abbreviatio	n: SC=	short circuit; OC= o	pen circuit				

5.7.5	TABLE: Earthed access	ible conductive	part			N/A
Supply volta	age (V)					_
Phase(s):		[] Single Phase; [] Three Phase: [] Delta [] Wye				
Power Distribution System:		[]TN []TT	[]IT			
Location		Fault Condition 60990 clause 6.		Touch current (mA)	Comm	ent
Supplementary Information:						
Tested with normal, abnormal and single-fault condition, and maximum value was recorded.						

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
Supplement	Supplementary information:						
Abbreviation: SC= short circuit, OC= open circuit							

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

6.2.2 TA	BLE: Power source cir	cuit classific	ations			Р
Location	Operating and fault condition	Voltage (V)	Current (A)	Max. Power ¹⁾ (W)	Time (S)	PS class
All circuits of power board						PS3
Output for LED backlight on power board (CN8602) to GND 3)						PS3 (declared)
Output for T-co		11.2	4.8	54.2	5	
on power board (CN404) to GND		0 2)	0 2)	0 2)	3	
	Single fault (L8601 SC)	0 2)	0 2)	0 2)	3	PS2
	Single fault (U422 pin 1-6 SC)	9.3	9.1	85.0	5	
	Single fault (U9102 Pin 1-2 SC)	0 2)	O ²⁾	0 2)	3	
+12V_SSB	Normal	11.7	6.9	82.7	5	
output on power board (after D9107) to GNE	Single fault	0 2)	0 2)	0 2)	3	
	Single fault (U9102 Pin 1-2 SC)	0 2)	0 ²⁾	0 2)	3	PS2
	Single fault (L8601 SC)	0 2)	0 2)	0 2)	3	

Abbreviation: SC= short circuit; OC= open circuit

- 1) Measured after 3 s for PS1 and measured after 5 s for PS2 and PS3.
- 2) Unit shut down.
- 3) Circuit of LED backlight are protected by metal enclosure of LCD panel considered as fire enclosure, no further test was required.

6.2.3.1	TABLE: Determi	nation of Arcing PIS				Р
Location		Open circuit voltage after 3 s (Vpk)	Measured r.m.s current (A)	Calculated value		cing PIS? ′es / No
	2)	2)	2)	2)		Yes
Supplementary information:						

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

- 1) An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage (V_p) and normal operating condition rms current (I_{rms}) is greater than 15.
- 2) All components located within primary circuit of power board are considered as arcing PIS.

6.2.3.2	3.2 TABLE: Determination of resistive PIS						
Location		Operating and fault condition	Dissipate power (W)	Arcing PIS? Yes / No			
	3)	3)	3)	Yes			

- 1) A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter. If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.
- 2) A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, or (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.
- 3) All components located within the EUT are considered as resistive PIS.

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

9.6	TABLE	: Tempera	ture meas	ureme	nts	for wireles	ss power t	ransmitter	'S	N/A
Supply voltage (V):										_
Max. transm	Max. transmit power of transmitter (W):							_		
		w/o rece direct o	iver and contact		with receiver and direct contact		with receiver and at distance of 2 mm		with receiver and at distance of 5 mm	
Foreign ob	jects	Object (°C)	Ambient (°C)	Obje (°C)		Ambient (°C)	Object (°C)	Ambient (°C)	Object (°C)	Ambient (°C)
Supplementary information:										

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Clause	Requirement + Test	Result - Remark	Verdict

5.4.1.4, 9.3, B.1.5, B.2.6 TABLE: Temperature measurements									
Supply voltage (V):	90V/ 60Hz	198V/ 60Hz			_				
Ambient temperature during test T_{amb} (°C) :	See below	See below			_				
Maximum measured temperature <i>T</i> of part/at:		Т	(°C)		Allowed T _{max} (°C)				
Tested under HDMI mode									
AC inlet CN9901	60.2	57.2			70				
RV9901 body	69.0	61.0			85				
PCB near NR9903	87.8	67.8			130				
C9901 body	69.3	64.2			85				
C9903 body	72.7	62.0			100				
L9901 coil	96.4	65.3			130				
C9904 body	69.7	62.0			100				
PCB near NR9901	88.7	70.8			130				
L9902 coil	99.9	66.7			130				
PCB near BD9901	90.9	70.0			130				
PCB near BD9903	86.2	68.7			130				
C9801 body	81.5	65.0			85				
L9801 coil	95.3	72.4			130				
PCB near Q9102	91.5	85.8			130				
C9112 body	80.7	77.2			85				
U9102 body	79.4	77.0			100				
C9915 body	83.5	81.7			85				
T9101 coil	98.4	96.6			110				
T9101 core	99.5	97.8			110				
C9121 body	98.1	97.0			105				
PCB near D9110	104.6	104.8			130				
L8601 coil	97.3	96.5			105				
PCB near D8602	99.1	98.7			130				
C8622 body	82.6	82.5			105				
PCB near Q8601	101.8	101.3			130				
PCB near D9107	123.0	121.8			130				
C9116 body	92.8	91.9			105				

				age of or 1	U	110	port No. ON	-00 V LZ 00	
			I	EC 62368-	1				
Clause	Requirement + T	est			Result - Remark			Verdict	
Mylar sheet between power board and LCD panel				92.9	91.7			100	
Plastic end	closure inside near	T9101		81.1	81.5			Ref.	
Ambient			45	45					
Touch tem	Touch temperature for accessible part under normal condition								
LCD panel				35.5	33.9			94	
Plastic enc	losure			48.1	46.1			70	
USB port				51.4	69.9			70	
Button				30.5	29.1			77	
Ambient				25.0	25.0				
Temperatu	re T of winding:	t ₁ (°C)	R ₁ (Ω	2) t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulatio n class	
Cupploman	tam information.			·	•	•	•	•	

- Note 1: Tma should be considered as directed by appliable requirement
- Note 2: Tma is not included in assessment of Touch Temperatures (Clause 9).
- Note 3: With a specified ambient temperature of 45°C. All recorded temperature have been calculated to ambient temperature 45°C. Temperature limits are calculated as follows:

Winding components providing safety isolation:

- Class B: Tmax = 120 - 10

Components with maximum absolute temperature of others:

- Tmax = Tmax of component
- Note 4: For internal speakers, adjusted to volume with 1kHz recorder adjusted to maximum output power.
- Note 5: Test condition of input of 90V/60Hz is chose as representative for others temperature test.

B.2.5		TABLE:	Input test						Р
U (V)	Hz	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/s	tatus
Test with model 55PU*81*0/**									
90	50	1.127		99.84		F9901	1.127	Maximum norma	l load
90	60	1.139		101.08		F9901	1.139	Maximum norma	l load
100	50	1.011	-	100.19	130	F9901	1.011	Maximum norma	l load
100	60	1.015		100.25	130	F9901	1.015	Maximum norma	l load
198	50	0.517		100.83		F9901	0.517	Maximum norma	l load
198	60	0.520		100.96		F9901	0.520	Maximum norma	l load
220	50	0.471		98.95	130	F9901	0.471	Maximum norma	l load

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Clause	Requirement + Test		Result - Remark	Verdict

220	60	0.475		98.99	130	F9901	0.475	Maximum normal load
240	50	0.436		98.42	130	F9901	0.436	Maximum normal load
240	60	0.442		98.66	130	F9901	0.442	Maximum normal load
264	50	0.401		98.69		F9901	0.401	Maximum normal load
264	60	0.408		99.02		F9901	0.408	Maximum normal load
Test w	ith mo	del 55P	U*82*0/****					
90	50	1.452		129.81		F9901	1.452	Maximum normal load
90	60	1.474		131.11		F9901	1.474	Maximum normal load
100	50	1.291		129.31	145	F9901	1.291	Maximum normal load
100	60	1.295		128.51	145	F9901	1.295	Maximum normal load
198	50	0.646		124.71		F9901	0.646	Maximum normal load
198	60	0.657		126.01		F9901	0.657	Maximum normal load
220	50	0.586		124.61	145	F9901	0.586	Maximum normal load
220	60	0.586		123.51	145	F9901	0.586	Maximum normal load
240	50	0.543		124.41	145	F9901	0.543	Maximum normal load
240	60	0.541		123.61	145	F9901	0.541	Maximum normal load
264	50	0.503		124.71		F9901	0.503	Maximum normal load
264	60	0.502		123.61		F9901	0.502	Maximum normal load
Committee			4!					

- 1. After comparing with all of the terminals, shows the result of the worst condition: HDMI mode.
- 2. Maximum normal load: see "Summary of testing" on Page 3 for the details.

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

B.3, B.4 TABLE: Abnormal operating and fault condition tests								
Ambient tempera	ture T _{amb} (°C)			:	See belo	W	_	
Power source for	EUT: Manufact	urer, mode	l/type, out	putrating :	See table	4.1.2	_	
Component No.	Condition	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observatio	n	
Ventilation openings	Blocked	90	1hr 27mins	F9901	1.767	Unit operated normal hazards, no damage After temperature restable, max. measurin T9101 Winding (powboard): 67.7°C, T9101 core (power loo.5°C, Plastic enclosure out T9101: 41.1°C, USB port: 43.8°C, Button body: 26.0°C LCD panel: 31.2°C; Ambient: 22.7°C	ed. ached red temp. ver coard): tside near	
USB output (CN103)	OL	90	2hrs 14mins	F9901	1.890	Before shutdown poloaded to 2.2A, no on hazards. After temperature restable, max. measurin T9101 Winding (powboard): 81.3°C, T9101 core (power l81.7°C, Plastic enclosure out T9101: 46.4°C, USB port: 53.1°C, Button body: 26.4°C LCD panel: 32.3°C, Ambient: 20.9°C	damage, ached red temp. ver coard): tside near	

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

T9101 pin 13,14 to pin 11,12 after D9110	OL	90	2hrs20 mins	F9901	2.302	Before shutdown winding is loaded to 0.6A additional, no damage, no hazards. Max. temp.: T9101 Winding (power board): 87.3°C, T9101 core (power board): 85.6°C, Plastic enclosure outside near T9101: 48.3°C, USB port: 42.2°C, Button body: 26.1°C, LCD panel: 33.5°C, Ambient: 21.9°C
T9101 pin 7,8 to pin 11,12 after D9107	OL	90	3hrs25 mins	F9901	2.137	Before shutdown winding is loaded to 2.5A additional, no damage, no hazards. Max. temp.: T9101 Winding (power board): 85.0°C, T9101 core (power board): 85.6°C, Plastic enclosure outside near T9101: 47.2°C, USB port:43.1 °C Button body: 26.5°C, LCD panel: 33.1°C, Ambient: 21.9°C
One speaker	SC	264	10mins	F9901	0.558	Unit operated normally, no hazards, no damaged.
USB output (CN103)	SC	264	10mins	F9901	0.586	The USB terminals output shutdown immediately, no damaged, no hazards
+12V output	SC	264	10mins	F9901	0.152	Unit shut down immediately, no damaged, no hazards
VLED output	SC	264	10mins	F9901	0.152	Unit shut down immediately, , no damaged, no hazards

- The unit passed 4000V hi-pot test between primary and accessible output connector after single fault test above.
- 2. In fault column, where SC=short-circuited, OC=open-circuited.
- 3. For fuse opened conditions were tested with each source of fuse.
- 4. For component damaged conditions have been repeated twice (three tests total) with same result.
- 5. Temp. limit of transformer according to table G.3 is 175°C-10-(40°C-Tamb) for Class B.

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

M.3	TABLE: Pr	otection circu	its 1	for batteri	es provid	ed v	vithin	the eq	uipr	ment	N/A	
Is it possible	to install the	battery in a re	vers	e polarity p	osition?	:					_	
					Cł	narg	ing					
Equipment S	pecification		Vc	oltage (V)					Cu	rrent (A)		
					Battery	spe	cificati	on				
		Non-recharge	able	e batteries			Rech	nargeab	le ba	atteries		
		Discharging	Unintentional		Charging			Discharging		Reverse		
Manufact	urer/type	current (A)	charging current (A)		Voltage (V) Curr		rent (A)		rrent (A)	charging current (A)		
Note: The tes	ts of M.3.2 a	re applicable o	nly v	when above	e appropri	ate d	data is	not ava	ailab	le.		
Specified bat	tery tempera	ture (°C)				:						
Component No.	Fault condition	Charge/ discharge mo	ode	Test time	Temp. (°C)	_	rrent (A)	Voltag (V)	je	Obse	Observation	
Supplementa	ry informatio	n:										
		circuit; OC= ope ission of flame						e; NS=	no s	pillage of	liquid; NE=	

M.4.2	TABLE: battery	Charging sa	feguards for	eguards for equipment containing a secondary lithiu					
Maximum	specified c	harging voltag	e (V)		:		_		
Maximum	specified c	harging currer	ıt (A)		:		_		
Highest sp	ecified cha	arging tempera	ture (°C)		:				
Lowest specified charging temperature (°C)									
Battery		Operating		Measurement		Observation			
manufactu	rer/type	and fault condition	Charging voltage (V)	Charging current (A)	Temp. (°C)				
Supplemer	ntary inforn	nation:							
	specified o	harging currer				d charging voltage; loerature; LSCT= low			

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

Q.1	TABLE: Circuits inte	ended for int	erconnectio	on with build	ding wiring	j (LPS)	Р
Output	0 1111		()	I _{sc} ((A)	S (V	(A)
Circuit	Condition	U _{oc} (V)	Time (s)	Meas.	Limit	Meas.	Limit
Circuit outpo	ut tested: Test on dat	a ports on p	ower board				
USB1 port (CN103) pin 1 to GND	Normal condition	5.2	5	3.8	8	11.3	100
USB1 port (CN103) pin 1 to GND	Fault condition (U1201 pin 5-1 SC)	5.2	5	3.8	8	11.2	100
USB2 port (CN103) pin 5 to GND	Normal condition	5.2	5	3.8	8	11.2	100
USB2 port (CN103) pin 5to GND	Fault condition (U1201 pin 5-1 SC)	5.2	5	3.8	8	11.2	100
USB1 (CN103) other pins to GND	Normal condition	0	5		8		100
HDMI 1 (CN501) pin 18 to GND	Normal condition	3.3	5	0 (Can't be loaded)	8	0 (Can't be loaded)	100
HDMI 1 (CN501) other pins to GND	Normal condition	0	5		8		100
HDMI 2 (CN502) pin 18 to GND	Normal condition	3.3	5	0 (Can't be loaded)	8	0 (Can't be loaded)	100
HDMI 2 (CN502) other pins to GND	Normal condition	0	5		8		100
HDMI 3 (CN503) pin 18 to GND	Normal condition	3.3	5	0 (Can't be loaded)	8	0 (Can't be loaded)	100
HDMI 3 (CN503) other pins to GND	Normal condition	0	5		8		100

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

ANTENNA port (TU201) all pins to GND	Normal condition	0	5		8		100
SERV.U port (CN706) pin 1,3 to GND	Normal condition	3.3	5	0 (Can't be loaded)	8	0 (Can't be loaded)	100
SERV.U port (CN706) other pins to GND	Normal condition	0	5		8		100
PHONE JACK (CN610) all pins to GND	Normal condition	0	5		8		100
Output for Key board (CN712) pin 1 to GND	Normal condition	3.3	5	0 (Can't be loaded)	8	0 (Can't be loaded)	100
Output for Key board (CN712) other pins to GND	Normal condition	0	5		8		100
Cupplemente	ry Information:						

¹⁾ Input Voltage is 264Vac, 60Hz. SC=short circuit.

T.2, T.3, T.4, T.5	TABLI	E: Steady force to	est					Р
Location/Par	rt	Material	Thickness (mm)	Probe	Force (N)	Test Duration (s)	Observa	ation
Interna compone		-			10	5	The clearance creepage dist not be reduce the required v	ances do
External pl		See table 4.1.2	See table 4.1.2		250	5	All safeguards remained effe	

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	IEC 62368-1										
Clause	ause Requirement + Test Result - Remark Verdict								Verdict		
Bottom of enclose		See table 4.1.2	See table 4.1.2		25	50	5	All safeguards			

T.6, T.9	TABLE: Impa	act test				Р			
Location/Part		Material	Thickness (mm)	Height (mm)	Observation	on			
External plastic enclosure		See table 4.1.2	See table 4.1.2	1300	All safeguards remained effective.				
Supplement	Supplementary information:								

T.7	TABLE: Dro	o test				N/A			
Location/Pa	rt	Material	Thickness (mm)	Height (mm)	Observation	on			
Supplement	Supplementary information:								

T.8	TABLE: Stress relief test					Р	
Location/Part		Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Obser	vation
Whole	unit	See table 4.1.2	See table 4.1.2	91.5	7	All safegua	
Supplementary information:							

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

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

4.1.2	TABLE	: List of critical co	omponents			Р
Object /	part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
LCD Par (with LE backligh	D	TPV	TPT550WR	55 inch TFT-LCD Panel	Applicable parts of IEC 62368-1	Tested in appliance
Alt.)		Interchangeable	Interchangeable	55 inch TFT-LCD Panel	Applicable parts of IEC 62368-1	Tested in appliance
Switchin Power S Board		TPV	715GF247	I/P: 100-240V~, 50-60Hz or 50/60Hz, 2.5A, Class II	IEC 62368-1: 2023	CB by intertek
Stand (Optional	al)	Interchangeable	Interchangeable	Metal	Applicable parts of IEC 62368-1	Tested in appliance
Stand (Optional	al)	Interchangeable	Interchangeable	HB or better	Applicable parts of IEC 62368-1 UL 94	Tested in appliance and UL
Enclosui (Front B	_	Interchangeable	Interchangeable	HB or better	UL 94	UL
Enclosur (Rear Co	_	LOTTE	VE-0819F, NE-1030(+), HM-1100(+), HN-3102(+)(f1), GC-1036, GC-1036RE, NH-1027HF	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized
Alt.		SAMYANG	2(xx)GNH(e), 210NHF(@), 210NHF(@)(co), DM280(+), 3025N1, EM210NHFT, 2D63	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized

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

Alt.	LG CHEM	LUPOY GN5001RF(T), LUPOY GN- 5001RF(T), LUPOY GN1001F, LUPOY ER5151F, LUPOY GN5101F(#), LUPOY ER5001RF(#), LUPOY GN- 2101F (m) (f1)	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized
Alt.	COVESTRO DEUTSCHLAN D AG	FR3017 R30+, R3210 TV+, FR3060 EV+	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized
Alt.	HUIZHOU WOTE	2000	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized
Alt.	KINGFA SCI	JH960-6300 (##), JH960-7(M) (ccc) (##) (r3), FRHIPS-960, CK-572(M1) (##), CK-680(M1) (##), JH-R0G(e), FG-830(o), JH720-R0G(x), JH960- 69(rc)(##)	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized
Alt.	ORINKO	HIPS-2230(B), HIPS-2330, PC/ABS-5140, PC/ABS-5142, PC/ABS-5143, PC/ABS-551(X), PC-TH112, PC-TH112(T), ABS-3230(T)	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized

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

Λ14	CHILIN	EC 02(XX//+)	Min V O	Applicable := ===	1.11
Alt.	CHI LIN	FG-02(XX)(+)	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized
Alt.	UNIC	UR-360+, UN-100+ (a), UN-1200R(50) (a)	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized
Alt.	QINGDAO HAIER	FR-3007, NH-9012, NH-9018G10	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized
Alt.	GUO HENG	YOUHE2102, YOUHE26(##), YOUHE26(##)G Y, YOUHE(####)(Y), YOUHER26(**)(H)	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized
Alt.	DONGGUAN ZHISHANG	ZS960	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized
Alt.	WISTRON ADVANCED MATERIALS	NC(N)(a)	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized
Alt.	XIAMEN DESU	DSFR519, DSFR519-CN	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized
Alt.	Chongqing Jinhong Technology Co., LTD	J(xxx)	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized
Alt.	Qingdao Jinsu	PC/ABS-80201 BK	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized

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

Alt.	SICHUAN COREMER	FRPCG10	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized		
Alt.	TPI	H5-R	Min. V-0	Applicable parts of IEC 62368-1, IEC 60695, UL 94, UL 746	UL recognized		
Insulation sheet	CHENGDU KANGLONGXIN	KLX FRPC- 870B, KLX PC-870B KLX FRPC- 1860B, KLX PP BK-10	V-0 or better, 0.4 mm thickness min	Applicable parts of IEC 62368-1, UL94	UL recognized		
Alt.	SUZHOU OMAY OPTICAL	SE42B, SE42B-F, SE11	V-0 or better, 0.4 mm thickness min	Applicable parts of IEC 62368-1, UL94	UL recognized		
Alt.	Mianyang / Sichuan Longhua	PC-770F, PC-770F-A, PC-770	V-0 or better, 0.4 mm thickness min	Applicable parts of IEC 62368-1, UL94	UL recognized		
Alt.	Sichuan Dongfang	DFR700, DFR700F, DFR117ECOC, DFR117ECO, DFR3A(d)	V-0 or better, 0.4 mm thickness min	Applicable parts of IEC 62368-1, UL94	UL recognized		
Alt.	JINGMEN GORUN	HF70, HE70	V-0 or better, 0.4 mm thickness min	Applicable parts of IEC 62368-1, UL94	UL recognized		
Alt.	NAN YA	FR-4-86(#1), FR-4-TL(#1), UV block FR-4- 86(#1)	V-0 or better, 0.4 mm thickness min	Applicable parts of IEC 62368-1, UL94	UL recognized		
Alt.	Ningbo Exciport	GZEFR99A	V-0 or better, 0.4 mm thickness min	Applicable parts of IEC 62368-1, UL94	UL recognized		
Alt.	Interchangeable	Interchangeable	V-1 or better, 0.4 mm thickness min	Applicable parts of IEC 62368-1, UL94	UL recognized		
The following list per client request.							
Mains cord set (Europe) (Optional)							

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

Plug:	I-SHENG	SP-021A,	2.5 A / 250 V	EN 50075	VDE, KEMA	
Connector:		SP-021H IS-033, IS-033C, IS-033F, IS-033L, IS-033LA, IS-037, IS-037,	2.5 A / 250 V	IEC 60320-1		
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227		
Plug: Connector:	Longwell	LP-21 LS-7, LS-7L	2.5 A / 250 V 2.5 A / 250 V	EN 50075 IEC 60320-1	VDE, KEMA, S	
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227		
Plug: Connector:	Fund Resources	CE-503J CE-602J, CE-602R	2.5 A / 250 V 2.5 A / 250 V	EN 50075 IEC 60320-1	VDE	
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227		
Plug: Connector:	HONGLIN	HL-024, HL-024L HL-028, HL-028B, HL-028LS, HL-028S, HL-028Z	2.5 A / 250 V 2.5 A / 250 V	EN 50075 IEC 60320-1	VDE, KEMA	
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227		
Plug: Connector: Cord:	Hong Chang	DTIII-2P-03, DTIII-2P-03L DTIII-2P-01, DTIII-2P-01A, DTIII-2P-01C, DTIII-2P-01L H03VVH2-F	2.5 A / 250 V 2.5 A / 250 V 2 x min. 0.5 mm ²	EN 50075 EN 60320-1 IEC 60227	VDE, ENEC	
Plug: Connector: Cord:	YUTONG	YT-05 YT-26, YT-06 H03VVH2-F	2.5 A / 250 V 2.5 A / 250 V 2 x min. 0.5 mm ²	EN 50075 EN 60320-1 IEC 60227	VDE, ENEC	
Plug: Connector: Cord:	Interchangeable	Interchangeable	2.5 A / 250 V 2.5 A / 250 V 2 x min. 0.5 mm ²	EN 50075 IEC 60320-1 IEC 60227	VDE, KEMA, ENEC	
Mains cord set (UK) (Optional)						

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

Plug:	I-SHENG	SP-62, SP-65	13A max. / 250 V	BS 1363-1: 2016+A1:2018	VDE, KEMA,
Connector:		IS-033, IS-033C, IS-033F, IS-033L, IS-033LS, IS-033LA, IS-037,	2.5 A / 250 V	EN 60320-1: 2015	3
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227-1: 2017	
Plug:	Longwell	LP-61L	13A max. / 250 V	BS 1363-1:	ASTA, PSB,
Connector:		LS-7, LS-7L	2.5 A / 250 V	2016+A1:2018 EN 60320-1: 2015	VDE, KEMA, S, CEBEC
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227-1: 2017	
Plug:	Fund Resources	BS-01J	13A max. / 250 V	BS 1363-1: 2016+A1:2018	ASTA, VDE
Connector:		CE-602J,	2.5 A / 250 V	EN 60320-1: 2015	
Cord:		CE-602R, H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227-1: 2017	
Plug:	LEONI	CW3202, 360	13A max. / 250 V	BS 1363-1: 2016+A1:2018	ASTA, KEMA
Connector:		CW4771	2.5 A / 250 V	EN 60320-1: 2015	
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227-1: 2017	
Plug:	HONGLIN	HL-044, HL-044S	13A max. / 250 V	BS 1363-1: 2016+A1:2018	BSI, VDE, TUV
Connector:		HL-028, HL-028B, HL-028LS, HL-028S, HL-028Z,	2.5 A / 250 V	EN 60320-1: 2015	100
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227-1: 2017	
Plug:	Hong Chang	DTII-3P-14	13A max. / 250 V	BS 1363-1: 2016+A1:2018	BSI, PSB, VDE
Connector:		DTIII-2P-01, DTIII-2P-01A, DTIII-2P-01C, DTIII-2P-01L	2.5 A / 250 V	EN 60320-1: 2015	VDL
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227-1: 2017	

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

Plug:	YUTONG	YT-19	13A max. / 250 V	BS 1363-1:	BSI, PSB,
				2016+A1:2018	VDE
Connector:		YT-26, YT-06	2.5 A / 250 V	EN 60320-1: 2015	
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227-1: 2017	
Plug:	Interchangeable	Interchangeable	13A max. / 250 V	BS 1363-1: 2016+A1:2018	ASTA, PSB, VDE, BSI,
Connector:			2.5 A / 250 V	EN 60320-1: 2015	KEMA, TUV, CEBEC, S
Cord:			2 x min. 0.5 mm ²	IEC 60227-1: 2017	OLDLO, O
Mains cord set	(Argentina) (Option	onal)			
Plug:	I-SHENG	SP-851	10 A max./ 250 V	IRAM 2063: 1982,	IRAM
Connector:		IS-033, IS-033C, IS-033F, IS-033L, IS-033LS, IS-037L	2.5 A / 250 V	IEC 60320-1	
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227-1	
Plug:	Longwell	LP-16	10 A max. / 250 V	IRAM 2063: 1982,	IRAM
Connector: Cord:		LS-7, LS-7L H03VVH2-F	2.5 A / 250 V 2 x min. 0.5 mm ²	IEC 60320-1	
Plug:	Fund Resources		10 A max. / 250 V	IRAM 2063:	Intertek, VDE
Connector:	T und resources	CE-602J,	2.5 A / 250 V	2003, IEC 60320-1	intertex, VDL
Cord:		CE-602R H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227-1	
Plug:	GK&B	03A0053	10 A max. / 250 V	IRAM 2063:	IRAM
Connector: Cord:	CKAD	C7G H03VVH2-F	2.5 A / 250 V 2 x min. 0.5 mm ²	2003, IEC 60320-1 IEC 60227-1	II VAIVI
Plug:	CHECIKA	9210, 9510	10 A max. / 250 V	IRAM 2063: 2009	IRAM
Connector: Cord:		C7 247 NM 52, 247 NM 53	2.5 A / 250 V 2 x min. 0.5 mm ²	IEC 60320-1 IEC 60227-1	
Plug:	HONGLIN	HL-075	10 A max. / 250 V	IRAM 2063: 2003,	IRAM
Connector:		HL-028 HL-028S	2.5 A / 250 V	IEC 60320-1	
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227-1	

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

Plug:	Interchangeable	Interchangeable	10 A max. / 250 V		IRAM,
Connector:			2.5 A / 250 V	2003, IEC 60320-1	Intertek, VDE
Cord:			2 x min. 0.5 mm ²	IEC 60227-1	
Mains cord set	(Brazil) (Optional)		1	I	
Plug:	I-SHENG	SP-021A, SP-021K, SP-021H	10 A max. / 250 V	NBR NM 60884- 1/2004	UCIEE
Connector:		IS-033, IS-033C, IS-033F, IS-033L, IS-033LS, IS-033LA, IS-037,	2.5 A / 250 V	EN 60320-1	
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227	
Plug:	Longwell	LP-18	10 A max. / 250 V	NBR NM 60884- 1/2004	UCIEE
Connector:		LS-8, LS-7, LS-7L	2.5 A / 250 V	EN 60320-1	
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227	
Plug: Connector:	Fund Resources	BR-505J CE-602J,	10 A max. / 250 V 2.5 A / 250 V	NBR NM 60884- 1/2004 EN 60320-1	TUV
		CE-602R			
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227	
Plug:	GK&B	2P, 2P+T	10 A max. / 250 V	NBR NM 60884- 1/2004	BVQI
Connector: Cord:		C7G H03VVH2-F	2.5 A / 250 V 2 x min. 0.5 mm ²	EN 60320-1 IEC 60227	
Plug:	HONGLIN	HL-046	10 A max. / 250 V	IEC 60884-1: 2002	TUV
Connector:		HL-028, HL-028B, HL-028LS, HL-028S, HL-028Z	2.5 A / 250 V	EN 60320-1	
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227	
Plug:	HONGCHANG	DTIII-2P-09	10 A max. / 250 V	NBR NM 60884- 1/2004	UCIEE
Connector:		DTIII-2P-01, DTIII-2P-01A, DTIII-2P-01C, DTIII-2P-01L	2.5 A / 250 V	EN 60320-1,	
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227	

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

Plug:	Interchangeable	Interchangeable	10 A max. / 250 V	NBR NM 60884- 1/2004	UCIEE, BVQI,TUV
Connector: Cord:			2.5 A / 250 V 2 x min. 0.5 mm ²	EN 60320-1, IEC 60227	1, 1
Mains cord set (Peru) (Optional)	l		I	L
Plug:	Fund Resources	SP-020	10 A max. / 250 V	NBR NM 60884- 1/2004	TUV
Connector:		CE-602J, CE-602R	2.5 A / 250 V	EN 60320-1	
Cord:	LICALCOLIANIC	H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227	VDE
Plug:	HONGCHANG	DTI-2P-L	10 A max. / 250 V	NBR NM 60884- 1/2004	VDE
Connector:		DTIII-2P-01, DTIII-2P-01A, DTIII-2P-01C, DTIII-2P-01L	2.5 A / 250 V	EN 60320-1	
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227	
Plug:	Interchangeable	Interchangeable	10 A max. / 250 V	NBR NM 60884- 1/2004	UCIEE, BVQI,TUV,
Connector: Cord:			2.5 A / 250 V 2 x min. 0.5 mm ²	EN 60320-1, IEC 60227	VDE
Mains cord set (Australia / New Z	ealand) (Optiona	l)		
Plug:	I-SHENG	SP-501D, SP-501A	7.5 A max. / 250 V	AS/NZS 3112:2011 A1	Queensland Government
Connector:		IS-033, IS-033C, IS-033F, IS-033L, IS-033LA, IS-033LS, IS-037, IS-037L	2.5 A / 250 V	AS/NZS 60320.1:2012	
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	AS/NZS 60227.5: 2003 A1	
Plug:	Longwell	LP-15A	7.5 A max. / 250 V	AS/NZS 3112:2011 A1	Fair Trading Certificate
Connector:		LS-7,	2.5 A / 250 V	AS/NZS	
Cord:		LS-7L LFC-2F	2 x min. 0.5 mm ²	60320.1: 2004 AS/NZS 3191: 2008	
Plug:	Fund Resources	SP-501J, SP-503	7.5 A max. / 250 V	AS/NZS 3112:2004 A1	SAA, Fair Trading
Connector:		CE-601J, CE-602J, CE-602R	2.5 A / 250 V	AS/NZS 60320.1:2004	Certificate
Cord:		H03VVH2-F	2 x min. 0.5 mm ²		

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

Connector: HL-028, HL-028B, HL-028S, HL-028S V 2.5 A / 250 V 3112:2004 A1 AS/NZS 60320.1:2004 Trading Certificate Cord: H03VVH2-F 2 x min. 0.5 mm² AS/NZS 3112: Queenslan	Plug:	Honglin	HL-055L	7.5 A max. / 250	AS/NZS	SAA, Fair
Cord:		J	HL-028B,		AS/NZS	
Connector: Cord:	Cord:			2 x min. 0.5 mm ²		
Plug:	Connector:	Interchangeable	Interchangeable	V 2.5 A / 250 V	2004 A1 AS/NZS	Trading
SP-65 IS-033, IS-033C, IS-033F, IS-033L, IS-033L, IS-033L, IS-033L, IS-033L, IS-037, IS-037L H03VVH2-F 2 x min. 0.5 mm² IEC 60227 Plug:	Mains cord set (Saudi Arabia) (O	ptional)			
Connector: IS-033, IS-033C, IS-033C, IS-033C, IS-033C, IS-033L, IS-033L, IS-033LA, IS-033LA, IS-033LA, IS-037L H03VVH2-F 2 x min. 0.5 mm² IEC 60227	Plug:	I-SHENG	· · · · · · · · · · · · · · · · · · ·	13 A max. / 250 V	SASO 2203	Intertek
Plug: Connector: Longwell LP-61L, LS-7, LS-7L LS-7L H03VVH2-F 2 x min. 0.5 mm² IEC 60227 Intertek EN 60320-1 EN 603	Connector:		IS-033, IS-033C, IS-033F, IS-033L, IS-033LA, IS-033LS, IS-037, IS-037L			
Connector:	Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227	
Cord: H03VVH2-F 2 x min. 0.5 mm² IEC 60227	•	Longwell	LS-7,			Intertek
Connector:	Cord:			2 x min. 0.5 mm ²	IEC 60227	
Plug:	•	Fund Resources	CE-602J,	· ·		Intertek
Connector: Cord: 2.5 A / 250 V EN 60320-1 IEC 60227	Cord:			2 x min. 0.5 mm ²	IEC 60227	
Plug: I-SHENG SP-021G, SP-021G3, SP-021P3 IS-033C, IS-033F, IS-033L, IS-033LA, IS-033LS, IS-037, IS-037,	Connector:	Interchangeable	Interchangeable	2.5 A / 250 V	EN 60320-1	Intertek
SP-021G3, SP-021P3 IS-033, IS-033C, IS-033F, IS-033L, IS-033LA, IS-033LS, IS-037,	Mains cord set (Thailand) (Option	nal)			
IS-033C, IS-033F, IS-033L, IS-033LA, IS-033LS, IS-037,		I-SHENG	SP-021G3, SP-021P3			TISI
Cord: H03VVH2-F 2 x min. 0.75 mm ² IEC 60227			IS-033C, IS-033F, IS-033L, IS-033LA, IS-033LS, IS-037, IS-037L			

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Clause	Requirement + Test		Result - Remark	Verdict

Plug:	Honglin	HL-059-3,	2.5 A / 250 V	EN 50075	TISI
Connector:		HL-077-3 HL-028, HL-028B,	2.5 A / 250 V	IEC 60320-1	
Cord:		HL-028S H03VVH2-F	2 x min. 0.75 mm ²	IEC 60227	
Plug:	THAI	WP209-2.5,	2.5 A / 250 V	EN 50075	TISI
Connector:	WONDERFUL	WP209-6 WTP-007	2.5 A / 250 V	IEC 60320-1	
Cord:		H03VVH2-F	2 x min. 0.75 mm ²	IEC 60227	
Plug: Connector: Cord:	Interchangeable	Interchangeable	2.5 A / 250 V 2.5 A / 250 V 2 x min. 0.75 mm ²	EN 50075 IEC 60320-1 IEC 60227	TISI
Mains cord set	(Africa) (Optional)	l	l	L
Plug:	I-SHENG	SP-80A, SP-80B	16 A max. / 250 V	SANS 164-1	SABS
Connector:		IS-033, IS-033C, IS-033F, IS-033L, IS-033LA, IS-033LS, IS-037,	2.5 A / 250 V	IEC 60320-1	
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227, SANS 60227-5	
Plug:	I-SHENG	SP-81A, SP-81B	6 A max. / 250 V	SANS 164-3	SABS
Connector:		IS-033, IS-033C, IS-033F, IS-033LA, IS-033LS, IS-037, IS-037L H03VVH2-F	2.5 A / 250 V 2 x min. 0.5 mm ²	IEC 60320-1	
				SANS 60227-5	
Plug: Connector:	HONGLIN	HL-035 HL-028, HL-028L, HL-028B, HL-028LS, HL-028S, HL-028Z	16A max. / 250 V 2.5 A / 250 V	SANS 164-1 IEC 60320-1	SABS
Cord:		H03VVH2-F	2 x min. 0.5 mm ²	IEC 60227, SANS 60227-5	

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Clause	Requirement + Test		Result - Remark	Verdict

Plug: Connector: Cord:	Interchangeable	Interchangeable	6A or 16A max. / 250 V 2.5 A / 250 V 2 x min. 0.5 mm ²	SANS 164-3 or SANS 164-1 IEC 60320-1 IEC 60227, SANS 60227-5	SABS
Mains cord set	(India) (Optional)				
Plug: Connector:	I-SHENG	SP-021Q, SP-021 IS-033, IS-033C, IS-033F, IS-033L, IS-033LS, IS-037, IS-037L	2.5A or 6A or 16 A / 250 V 2.5 A / 250 V	ACT,1986(63 of 1986) IS 1293: 2005, IEC 60320-1	BIS, VDE
Cord:		H03VVH2-F, H03Z1Z1H2-F	2 x min. 0.5 mm ²	IS 694: 1990	
Plug: Connector: Cord:	HONGLIN	HL-073, HL-067 HL-028, HL-028L, HL-028B, HL-028LS, HL-028S, HL-028Z H03VVH2-F,	2.5A or 6A or 16 A / 250 V 2.5 A / 250 V 2 x min. 0.5 mm ²	ACT,1986(63 of 1986) IS 1293: 2005, IEC 60320-1	BIS, ENEC
Plug:	Fund Resources	H03Z1Z1H2-F	2.5A or 6A or 16	ACT,1986(63 of	BIS, ENEC
Connector:	T und resources	CE-602J H03VVH2-F, H03Z1Z1H2-F	A / 250 V 2.5 A / 250 V 2 x min. 0.5 mm ²	1986) IS 1293: 2005, IEC 60320-1 IS 694: 1990	DIO, LINEO
Plug: Connector: Cord:	Yutong	YT-22 YT-06 H03VVH2-F, H03Z1Z1H2-F	2.5A or 6A or 16 A / 250 V 2.5 A / 250 V 2 x min. 0.5 mm ²	ACT,1986(63 of 1986) IS 1293: 2005, IEC 60320-1 IS 694: 1990	BIS, ENEC
Plug: Connector: Cord:	Interchangeable	Interchangeable	2.5A or 6A or 16 A / 250 V 2.5 A / 250 V 2 x min. 0.5 mm ²	ACT,1986(63 of 1986) IS 1293: 2005, IEC 60320-1 IS 694: 1990	BIS, VDE, ENEC
Mains cord set	(Korea) (Optional))			

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Clause	Requirement + Test		Result - Remark	Verdict

Plug:	HONGLIN	HL-012	2.5 A / 250 V	KC60799, KC60884-1	KTL
Connector:		HL-028K	2.5 A / 250 V	KSC8305, KC60320-1	
Cord:		H03VV-F, H03VVH2-F	2 x min. 0.5 mm ²	K60227-5, IEC 60227- 5:2003	
Plug:	Interchangeable	Interchangeable	2.5 A / 250 V	KC60799, KC60884-1	KTL
Connector:			2.5 A / 250 V	KSC8305, KC60320-1	
Cord:			2 x min. 0.5 mm ²	K60227-5, IEC 60227- 5:2003	

Supplementary information:

- 1. 1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.
- 2. An approved power supply cord set which complies with relevant national requirements, will be provided by the mfr. when marketing in the specified countries.
- 3. All component standards refer to the certificates, the component is valid only if the certificate is valid.

List of test equipment used:

A completed list of used test equipment shall be provided in the Test Reports when a Customer's Testing Facility according to CTF stage 1 or CTF stage 2 procedure has been used.

Note: This page may be removed when CTF stage 1 or CTF stage 2 are not used. See also clause 4.8 in

OD 2020 for more details.

Clause	Measurement / testing	Testing / measuring equipment / material used, (Equipment ID)	Range used	Last Calibration date	Calibration due date

Statement of Measurement Uncertainty

The Test Report shall include a statement concerning the uncertainty of the measurement systems used for the tests conducted when it is required by the standard, client or other authorities. In such cases, the table below is to be used for reporting U of M.

This page may be removed from the final Test Report when not required. See also clause 4.8 in OD 2020 for more details.

Clause #	Parameter/ Measurement / test method	Requirement % or k	Calculated U of M*

^{*}Note: Calculations leading to the reported value are on file with the NCB



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ATTACHMENT TO TEST REPORT

IEC 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

Attachment Form No. EU_GD_IEC62368_1E

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

Master Attachment 2021-02-04

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	CENELEC COMMON MOD	IFICATIONS (EN)	Р
	Clause numbers in the cells EN IEC 62368-1:2020+A11: except for those in the parage Clauses, subclauses, notes	that are shaded light grey are clause references in :2020. All other clause numbers in that column, graph below, refers to IEC 62368-1:2018. , tables, figures and annexes which are additional to	P
	those in IEC 62368-1:2018 Add the following annexes:	are prefixed "Z".	P
	Annex ZA (normative) publications Annex ZB (normative)	Normative references to international with their corresponding European publications Special national conditions	,
	Annex ZC (informative)	A-deviations	
	Annex ZD (informative)	IEC and CENELEC code designations for flexible cords	
1	Modification to Clause 3.		
3.3.19	Sound exposure		N/A
	Replace 3.3.19 of IEC 62368-1 with the following definitions:		
3.3.19.1	momentary exposure leve metric for estimating 1 s sou from the HD 483-1 S2 test si channels, based on EN 5033	ignal applied to both 32-1:2013, 4.2.	N/A
	Note 1 to entry: MEL is measured a Note 2 to entry: See B.3 of EN 503 information.		
3.3.19.3	sound exposure, E		N/A
	A-weighted sound pressure integrated over a stated per	iod of time, T	
	Note 1 to entry: The SI unit is Pa ² s	S	



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	$E = \int p(t)^2 \mathrm{d}t$		
	0		
3.3.19.4	sound exposure level, SEL		N/A
	logarithmic measure of sound exposure relative		
	to a reference value, E_0 , typically the 1 kHz		
	threshold of hearing in humans.		
	Note 1 to entry: SEL is measured as A-weighted levels in dB.		
	CEL 101-(E)		
	$SEL = 10 \lg \left(\frac{E}{E_0}\right) dB$		
	Note 2 to entry: See B.4 of EN 50332-3:2017 for additional information.		
3.3.19.5	digital signal level relative to full scale, dBFS		N/A
0.0.13.0	digital signal level relative to full scale, abi o		IN//A
	levels reported in dBFS are always r.m.s. Full		
	scale level, 0 dBFS, is the level of a dc-free 997- Hz sine wave whose undithered positive peak		
	value is positive digital full scale, leaving the code		
	corresponding to negative digital full scale unused		
	unuseu		
	Note 1 to entry: It is invalid to use dBFS for non-r.m.s. levels. Because the definition of full scale is based on a sine wave,		
	the level of signals with a crest factor lower than that of a sine wave may exceed 0 dBFS. In particular, square wave signals		
	may reach +3,01 dBFS.		
2	Modification to Clause 10		
10.6	Safeguards against acoustic energy sources Replace 10.6 of IEC 62368-1 with the following:		N/A
10.6.1.1	Introduction		N/A
10.0.1.1	miroduction		14//-
	Safeguard requirements for protection against		
	long-term exposure to excessive sound pressure levels from personal music players closely		
	coupled to the ear are specified below.		
	Requirements for earphones and headphones intended for use		
	with personal music players are also covered.		
	A personal music player is a portable equipment		
	intended for use by an ordinary person , that:		
	– is designed to allow the user to listen to audio		



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	or audiovisual content / material; and		
	 uses a listening device, such as headphones 		

 uses a listening device, such as headphones or earphones that can be worn in or on or

around the ears; and

– has a player that can be body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around with while in continuous use (for example, on a street, in a subway, at an airport, etc.).

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

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

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

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

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

These requirements are valid for music or video mode only.

The requirements do not apply to:

professional equipment;

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

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

NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.

- a player while connected to an external



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	amplifier that does not allow the user to walk around while in use. For equipment that is clearly designed or intended primarily for use by children, the limits of the relevant toy standards may apply. The relevant requirements are given in		
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.		
10.6.1.2	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).		N/A
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand-held and body mounted devices, attention is drawn to EN 50360 and EN 50566.		
10.6.2	Classification of devices without the capacity t	o estimate sound dose	N/A
10.6.2.1	General This standard is transitioning from short-term based (30 s) requirements to long-term based (40 hour) requirements. These clauses remain in effect only for devices that do not comply with sound dose estimation as stipulated in EN 50332-3. For classifying the acoustic output <i>L</i> _{Aeq, T} , measurements are based on the A-weighted equivalent sound pressure level over a 30 s		N/A
	period. For music where the average sound pressure (long term <i>L</i> Aeq, τ) measured over the duration of the song is lower than the average produced by the programme simulation noise, measurements may be done over the duration of the complete song. In this case, <i>T</i> becomes the duration of the song. NOTE Classical music, acoustic music and broadcast typically has an average sound pressure (long term <i>L</i> Aeq, τ) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the content and		



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	compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the required limit. For example, if the player is set with the programme simulation noise to 85 dB, but the average music level of the song is only 65 dB, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB.		
10.6.2.2	RS1 limits (to be superseded, see 10.6.3.2)		N/A
	RS1 is a class 1 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or where the combination of player and listening device is known by other means such as setting or automatic detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 85 dB when playing the fixed "programme simulation noise" described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 27 mV (analogue interface) or -25 dBFS (digital interface) when playing the fixed "programme simulation noise" described in EN 50332-1. — The RS1 limits will be updated for all devices as per 10.6.3.2.		
10.6.2.3	RS2 limits (to be superseded, see 10.6.3.3) RS2 is a class 2 acoustic energy source that does not exceed the following: — for equipment provided as a package (player with its listening device), and with a proprietary connector between the player and its listening device, or when the combination of player and listening device is known by other means such as setting or automatic 130 detection, the <i>L</i> Aeq, <i>τ</i> acoustic output shall be ≤ 100 dB(A) when playing the fixed "programme simulation noise" as described in EN 50332-1. — for equipment provided with a standardized connector (for example, a 3,5 phone jack) that allows connection to a listening device for general use, the unweighted r.m.s. output voltage shall be ≤ 150 mV (analogue interface) or -10 dBFS (digital interface) when playing the fixed "programme simulation noise" as described in EN		N/A
10.6.2.4	50332-1. RS3 limits		N/A



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



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



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	the equipment is operated with an output exceeding RS1. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an output exceeding RS1. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time.		
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always needed. NOTE 3 The 20 h listening time is the accumulative listening time, independent of how often and how long the personal music player has been switched off. A skilled person shall not be unintentionally		
10.6.5	exposed to RS3. Requirements for dose-based systems		N/A
10.6.5.1	General requirements		N/A
	Personal music players shall give the warnings as provided below when tested according to EN 50332-3, using the limits from this clause. The manufacturer may offer optional settings to allow the users to modify when and how they wish to receive the notifications and warnings to promote a better user experience without defeating the safeguards. This allows the users to be informed in a method that best meets their physical capabilities and device usage needs. If such optional settings are offered, an administrator (for example, parental restrictions, business/educational administrators, etc.) shall be able to lock any optional settings into a specific configuration.		
	The personal music player shall be supplied with easy to understand explanation to the user of the dose management system, the risks involved, and how to use the system safely. The user shall be made aware that other sources may significantly contribute to their sound exposure, for example work, transportation, concerts, clubs, cinema, car races, etc.		
10.6.5.2	Dose-based warning and requirements When a dose of 100 % CSD is reached, and at least at every 100 % further increase of CSD, the device shall warn the user and require an acknowledgement. In case the user does not acknowledge, the output level shall automatically		N/A



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	decrease to compliance with class RS1.		
	The warning shall at least clearly indicate that listening above 100 % <i>CSD</i> leads to the risk of hearing damage or loss.		
10.6.5.3	Exposure-based requirements		N/A
	With only dose-based requirements, cause and effect could be far separated in time, defying the purpose of educating users about safe listening practice. In addition to dose-based requirements, a PMP shall therefore also put a limit to the short-term sound level a user can listen at.		
	The exposure-based limiter (EL) shall automatically reduce the sound level not to exceed 100 dB(A) or 150 mV integrated over the past 180 s, based on methodology defined in EN 50332-3. The EL settling time (time from starting level reduction to reaching target output) shall be 10 s or faster.		
	Test of EL functionality is conducted according to EN 50332-3, using the limits from this clause. For equipment provided as a package (player with its listening device), the level integrated over 180 s shall be 100 dB or lower. For equipment provided with a standardized connector, the unweighted level integrated over 180 s shall be no more than 150 mV for an analogue interface and no more than -10 dBFS for a digital interface.		
	NOTE In case the source is known not to be music (or test signal), the EL may be disabled.		
10.6.6	Requirements for listening devices (headphone	es, earphones, etc.)	N/A
10.6.6.1	Corded listening devices with analogue input		N/A
	With 94 dB LAeq acoustic pressure output of the listening device, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like 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.



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Resu	t - Remark Verdict

Clause	Requirement + Test	Result - Remark	Verdict
10.6.6.2	Corded listening devices with digital input		N/A
	With any playing device playing the fixed "programme simulation noise" described in EN 50332-1, and with the volume and sound settings in the listening device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output, the $L_{\text{Aeq},T}$ acoustic output of the listening device shall be \leq 100 dB with an input signal of -10 dBFS.		
10.6.6.3	Cordless listening devices		N/A
	In cordless mode,		
	 with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and 		
	 respecting the cordless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and 		
	 with volume and sound settings in the receiving device (for example, built-in volume level control, additional sound features like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above mentioned programme simulation noise, the LAeq, \(\tau\) acoustic output of the listening device shall 		
40.004	be ≤ 100 dB with an input signal of -10 dBFS.		N1/A
10.6.6.4	Measurement method		N/A
	Measurements shall be made in accordance with EN 50332-2 as applicable.		
3	Modification to the whole document		



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Clause	Requirement	+ Test			Result - Rema	nrk	Verdict
	Delete all the following list:		es in the ref	ference docu	ument accordin	g to the	Р
	0.2.1	Note 1 and 2	1	Note 4 and	5 3.3.8.1	Note 2	
	3.3.8.3	Note 1	4.1.15	Note	4.7.3	Note 1 and 2	
	5.2.2.2	Note	5.4.2.3.2.2 Table 12	Note c	5.4.2.3.2.4	Note 1 and 3	
	5.4.2.3.2.4 Table 13	Note 2	5.4.2.5	Note 2	5.4.5.1	Note	
	5.4.10.2.1	Note	5.4.10.2.2	Note	5.4.10.2.3	Note	
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3 and 4	
	5.6.8	Note 2	5.7.6	Note	5.7.7.1	Note 1 and Note 2	
	8.5.4.2.3	Note	10.2.1 Table 39	Note 3 and and 5	4 10.5.3	Note 2	
	10.6.1	Note 3	F.3.3.6	Note 3	Y.4.1	Note	
	Y.4.5	Note					
4	Modification	to Clause 1					
1	Add the follo	wing note:			Added.		Р
		se of certain subs ment is restricted					
5	Modification	to 4.Z1					



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Clause	Requirement + Test	Result - Remark	Verdict			
4.Z1	Add the following new subclause after 4.9:	Added.	Р			
	To protect against excessive current, short-					
	circuits and earth faults in circuits connected to					
	an a.c. mains, protective devices shall be					
	included either as integral parts of the equipment					
	or as parts of the building installation, subject to the following, a), b) and c):					
	a) except as detailed in b) and c), protective					
	devices necessary to comply with the requirements of B.3.1 and B.4 shall be included					
	as parts of the equipment;					
	b) for components in series with the mains input					
	to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-					
	circuit and earth fault protection may be provided					
	by protective devices in the building installation;					
	c) it is permitted for pluggable equipment type					
	B or permanently connected equipment, to rely					
	on dedicated overcurrent and short-circuit protection in the building installation, provided					
	that the means of protection, e.g. fuses or circuit					
	breakers, is fully specified in the installation					
	instructions.					
	If reliance is placed on protection in the building					
	installation, the installation instructions shall so					
	state, except that for pluggable equipment type A the building installation shall be regarded as					
	providing protection in accordance with the rating					
	of the wall socket outlet.					
6	Modification to 5.4.2.3.2.4					
5.4.2.3.2.4	Add the following to the end of this subclause:	Added.	N/A			
	The requirement for interconnection with external					
	circuit is in addition given in EN 50491-3:2009.					
7	Modification to 10.2.1					
10.2.1	Add the following to c) and d) in table 39:	Added.	N/A			
	For additional requirements, see 10.5.1.					
8	Modification to 10.5.1					



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et		Result - Remark	Verdict

Clause	Requirement + Test	Result - Remark	Verdict
10.5.1	Add the following after the first paragraph:	Added.	N/A
	For RS 1 compliance is checked by measurement under the following conditions:		
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.		
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.		
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus.		
	Moreover, the measurement shall be made under fault conditions causing an increase of the high voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.		
	For RS1, the dose-rate shall not exceed 1 µSv/h taking account of the background level.		
	NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.		
9	Modification to G.7.1		Р
G.7.1	Add the following note:	Added.	Р
	NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.		
10	Modification to Bibliography		N/A



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Test	Result - Remark	Verdict

Clause	Requirement + Test		Result - Remark	Verdict
	Add the following notes for the standards indicated:		d:	N/A
	IEC 60269-2 N IEC 60309-1 N IEC 60364 N IEC 60601-2-4 N IEC 60664-5 N IEC 61508-1 N IEC 61558-2-1 N IEC 61558-2-4 N IEC 61558-2-8 N IEC 61643-1 N IEC 61643-21 N IEC 61643-311 N IEC 61643-321 N	IOTE Harmonized as EN 601 IOTE Harmonized as HD 602 IOTE Harmonized as EN 603 IOTE some parts harmonized IOTE Harmonized as EN 608 IOTE Harmonized as EN 608 IOTE Harmonized as EN 616 IOTE Harmonized as EN 615 IOTE Harmonized as EN 615 IOTE Harmonized as EN 615 IOTE Harmonized as EN 616	269-2. 309-1. d in HD 384/HD 60364 series. 301-2-4. 364-5. 302:1998 (not modified). 508-1. 558-2-1. 558-2-4. 558-2-6. 343-1. 343-311.	
11	ADDITION OF ANNEX	ES		
ZB	ANNEX ZB, SPECIAL	NATIONAL CONDITIONS	(EN)	Р
4.1.15	for connection to other network shall, if safety is reliable earthing or if such are connected between and accessible parts, if the equipment shall be mains socket-outlet. The marking text in the be as follows: In Denmark: "Apparate en stikkontakt med jord stikproppens jord." In Finland: "Laite on liit varustettuun pistorasiaa in Norway: "Apparatet stikkontakt"	ipment type A intended equipment or a relies on connection to arge suppressors the network terminals have a marking stating that connected to an earthed applicable countries shall applicable som giver forbindelse til tettävä suojakoskettimilla an"	Class II equipment.	N/A
4.7.3	United Kingdom		Approved power supply cord provided.	Р



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	To the end of the subclause the following is added:				
	The torque test is performed using a socket-outlet complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also see Annex G.4.2 of this annex				
5.2.2.2	Denmark	No high touch current.	N/A		
	After the 2nd paragraph add the following:				
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.				
5.4.11.1	Finland and Sweden	No TNV circuits.	N/A		
Annex G	To the end of the subclause the following is added:				
	For separation of the telecommunication network from earth the following is applicable:				
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either				
	two layers of thin sheet material, each of which shall pass the electric strength test below, or				
	one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.				
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition				
	 passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), 				
	and				



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	is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV. It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions: • the insulation requirements are satisfied by having a capacitor classified Y3 as defined by		
	EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11; • the additional testing shall be performed on all		
	the test specimens as described in EN 60384- 14; the impulse test of 2,5 kV is to be performed		
	before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.		
5.5.2.1	Norway	Considered.	Р
	After the 3rd paragraph the following is added:		
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).		
5.5.6	Finland, Norway and Sweden		N/A
	To the end of the subclause the following is added:		
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.		
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		



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Clause	Requirement + Test	Result - Remark	Verdict
	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 pluggable equipment type A , the following is added:		
	 the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug. 		
5.6.4.2.1	France		N/A
	After the indent for pluggable equipment type A , the following is added:		
	 in certain cases, the protective current rating of the circuit supplied from the mains is taken as 20 A instead of 16 A. 		
5.6.5.1	To the second paragraph the following is added:		N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is:		
	1,25 mm ² to 1,5 mm ² in cross-sectional area.		
5.6.8	Norway		N/A
	To the end of the subclause the following is added:		
	Equipment connected with an earthed mains plug is classified as class I equipment . See the Norway marking requirement in 4.1.15. The symbol IEC 60417-6092, as specified in F.3.6.2, is accepted.		
5.7.6	Denmark		N/A
	To the end of the subclause the following is added:		
	The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.		
5.7.6.2	Denmark		N/A
	To the end of the subclause the following is added:		
	The warning (marking safeguard) for high touch		



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	current is required if the touch current or the protective current exceed the limits of 3,5 mA.		
5.7.7.1	Norway and Sweden		N/A
	To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential		
	bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.		
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.		
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:		
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing –		
	and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"		
	NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.		
	Translation to Norwegian (the Swedish text will also be accepted in Norway):		
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare.		
	For å unngå dette skal det ved tilkopling av		



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		I	l.
	apparater til kabel-TV nett installeres en		
	galvanisk isolator mellom apparatet og kabel-TV		
	nettet."		
	T 1: 1 0 1: 1		
	Translation to Swedish:		
	"Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning		
	och samtidigt är kopplad till kabel-TV nät kan i		
	vissa fall medfőra risk főr brand. Főr att undvika		
	detta skall vid anslutning av apparaten till kabel- TV nät galvanisk isolator finnas mellan apparaten		
	och kabel-TV nätet.".		
8.5.4.2.3	United Kingdom		N/A
	Add the following after the 2nd dash bullet in 3rd		
	paragraph:		
	An emergency stop system complying with the		
	requirements of IEC 60204-1 and ISO 13850 is required where there is a risk of personal injury.		
B.3.1 and	Ireland and United Kingdom		N/A
B.4	· ·		
	The following is applicable:		
	To protect against excessive currents and short-		
	circuits in the primary circuit of direct plug-in equipment, tests according to Annexes B.3.1 and		
	B.4 shall be conducted using an external		
	miniature circuit breaker complying with EN		
	60898-1, Type B, rated 32A. If the equipment		
	does not pass these tests, suitable protective devices shall be included as an integral part of		
	the direct plug-in equipment, until the		
	requirements of Annexes B.3.1 and B.4 are met		
G.4.2	Denmark		N/A
	To the end of the subclause the following is added:		
	auueu.		
	Supply cords of single phase appliances having a		
	rated current not exceeding 13 A shall be		
	provided with a plug according to DS 60884-2-		
	D1:2011.		
	CLASS LEQUIDMENT provided with cooket		
	CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended		
	to be used in locations where protection against		
	indirect contact is required according to the wiring		
	rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.		
	with standard sheet DN 2-1a OF DN 2-0a.		



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			<u> </u>
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a polyphase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.		
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.		
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.		
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a		
	Justification: Heavy Current Regulations, Section 6c		
G.4.2	United Kingdom		N/A
	To the end of the subclause the following is added:		
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.		



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			•
G.7.1	United Kingdom	Approved power supply cord provided.	Р
	To the first paragraph the following is added:		
	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc. (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768, unless exempted by those		
	regulations.		
	NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		
G.7.1	Ireland		N/A
	To the first paragraph the following is added:		
	Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the recognition of a standard of another Member State which is equivalent to the relevant Irish Standard		
G.7.2	Ireland and United Kingdom		N/A
	To the first paragraph the following is added:		
	A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.		



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Clause

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



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Requirement + Test

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IEC and CENELEC CODE DESIGNATIONS F	FOR FLEXIBLE C	ORDS (EN)	
Type of flexible cord	Code de	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-F	
Ordinary halogen-free thermoplastic insulated and sheathed flexible cords		H05Z1Z1-F H05Z1Z1H2-F	

Product:

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LED TV Set

<u>Type Designation:</u> 1) 55PU*81*0/****; 2) 55PU*82*0/**** (* can be 0-9, A-Z, a-z, "+", "-", "/", "\" or blank for

marketing purpose.)



Figure 1. External view of model 55PU*81*0/****



Figure 2. External view of model 55PU*81*0/****

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Product: LED TV Set

<u>Type Designation:</u> 1) 55PU*81*0/****; 2) 55PU*82*0/**** (* can be 0-9, A-Z, a-z, "+", "-", "/", "\" or blank for

marketing purpose.)



Figure 3. External view of model 55PU*82*0/****



Figure 4. External view of model 55PU*82*0/****

ATTACHMENT

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<u>Type Designation:</u> 1) 55PU*81*0/****; 2) 55PU*82*0/**** (* can be 0-9, A-Z, a-z, "+", "-", "/", "\" or blank for marketing purpose.)

LED TV Set



Figure 5. Internal view