

JPTUV-106820



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

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit

Name and address of the applicant Nom et adresse du demandeur

Name and address of the manufacturer Nom et adresse du fabricant

Name and address of the factory Nom et adresse de l'usine

Ratings and principal characteristics Valeurs nominales et charactéristiques principales

Trademark (if any) Marque de fabrique (si elle existe)

Type of Manufacturer's Testing Laboratories used Type de programme du laboratoire d'essais constructeur

Model / Type Ref. Ref. de type

Additional information (if necessary may also be reported on page 2)
Les informations complémentaires (si nécessaire, peuvent être indiqués sur la 2ème page)

A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été considéré conforme à la

As shown in the Test Report Ref. No. which forms part of this Certificate Comme indiqué dans le Rapport d'essais numéro de

référence qui constitue partie de ce Certificat

LCD monitor (LED Backlight)

TPV Electronics (Fujian) Co., Ltd. Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian, P.R. China

TPV Electronics (Fujian) Co., Ltd. Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian, P.R. China

See additional page(s)

100-240VAC; 50/60Hz; 1.5A; Class I

AOC

N/A

27E2, 27E2********, 27P2, 27P2*******, Q27P2, Q27P2*******, U27P2, U27P2*********** (* can be 0-9, A-Z, a-z, -, \, /, + or blank)

For model differences, refer to the test report.

IEC 62368-1:2014 See Test Report for National Differences

50337660 001

This CB Test Certificate is issued by the National Certification Body Ce Certificat d'essai OC est établi par l'Organisme National de Certification



03.04.2020

TÜV Rheinland Japan Ltd. Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021 Japan

Phone + 81 45 914-3888 Fax + 81 45 914-3354 Mail: info@jpn.tuv.com Web: www.tuv.com

Signature:

Aegean Li

Date:



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- TPV Display Technology (Wuhan)
 Co., Ltd.
 Unique No. 11, Zhuankou Development
 District of Economic Technological
 Development Zone, 430056 Wuhan City, P.R. China
- TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road Fuqing City Fujian P.R. China
- L&T Display Technology (Fujian) Ltd.
 Optoelectronic Park, Rongqiao
 Economic and Technological
 Development Zone
 Fuqing, 350301 Fujian, P.R. China
- TPV Electronics (Fujian) Co., Ltd. Rongqiao Economic and Technological Development Zone Fuqing City Fujian, 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
- TPV Display Technology (China) Co., Ltd. No. 106 Jinghai 3 Rd., BDA 100176 Beijing P.R. China
- 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
- TPV Technology (Qingdao)
 Co., Ltd.
 No.99 Huoju Road, High-tech Industrial Development Zone
 Qingdao City, Shandong, P.R. China
- Envision Indústria de Produtos Eletrônicos Ltda.
 Av. Torquato Tapajós, 2236, Flores - CEP 69058-830 - Manaus/AM Brazil

Additional information (if necessary) Information complémentaire (si nécessaire)

Report Ref. No.: 50337660 001

Date: 03.04.2020

Signature:

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- Pro Concept Manufacturer Co., Ltd 88/1 Moo 12, Soi Phetkasem 120, Phetkasem Road, Omnoi, Krathumbaen, Samutsakhon 74130, Thailand
- 11. TPV Technology (Thailand) Co., Ltd. 267 Moo 7, Thatum Sub-District, Srimahaphot District, Prachinburi Province Thailand
- TPV Electronics (Fujian) Co., Ltd.
 Optoelectronic Park,
 Rongqiao Economic and
 Technological Development Zone,
 Fuqing City, 350301 Fujian, P.R. China

Additional information (if necessary) Information complémentaire (si nécessaire)

Report Ref. No.: 50337660 001

Date: 03.04.2020

Aegea

Signature:





TEST REPORT IEC 62368-1

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

 Report Number
 50337660 001

 Date of issue
 Mar.31, 2020

Total number of pages: 111

Applicant's name: TPV Electronics (Fujian) Co., Ltd.

Address : Rongqiao Economic and Technological Development Zone, Fuqing City,

Fujian Province, P.R.China

Test specification:

Standard.....: IEC 62368-1:2014 (Second Edition)

Test procedure: CB Scheme

Non-standard test method: N/A

Test Report Form No.: IEC62368_1B

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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:	.: LCD monitor (LED Backlight)	
Trade Mark:	AOC	
Manufacturer:	: Same as applicant	
Model/Type reference:	27E2, 27E2*******, 27P2, 27P2********, Q27P2, Q27P2*******, U27P2, U27P2******* (* can be 0-9, A-Z, a-z, -,/,+ or blank for marketing purpose only, no technical difference.)	
Ratings:	I/P: 100-240V~, 50/60Hz,	1.5A.
Testing procedure and testing location:		
☐ CB Testing Laboratory:	TÜV Rheinland (Shenzhe	n) Co., Ltd.
Testing location/ address:	1F East & 2-4F, Cybio Technology Building No. 1, No. 16 Kejibei 2nd Road, High-Tech Industrial Park North, Nanshan District 518057, Shenzhen, China	
☐ Associated CB Testing Laboratory:		
Testing location/ address:		
Tested by (name + signature):	Steven Lin Project Handler	
Approved by (name + signature):	Anderson Wang Technical Certifier	
☐ Testing procedure: TMP/CTF Stage 1		
Testing location/ address:		
Tested by (name + signature):		
Approved by (name + signature):		
☐ Testing procedure: WMT/CTF Stage 2		
Testing location/ address:		
Tested by (name + signature):		
Witnessed by (name + signature):		
Approved by (name + signature):		
Testing procedure: SMT/CTF Stage 3 or 4		
Testing location/ address:		
Tested by (name + signature):		
Approved by (name + signature):		
Supervised by (name + signature):		

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

- Attachment 1: Measurement Section (12 Pages)
- Attachment 2: National Differences (35 Pages)
- Attachment 3: Photo documentation (30 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, 6.3.2, 9.0, B.2.6
Determination of working voltage	5.4.1.8
Ball pressure test	5.4.1.10.3
Humidity test	5.4.8
Electric strength test	5.4.9
Safeguards against capacitance discharge test	5.5.2.2
Resistance of the protective bonding system (Ground continuity test)	5.6.6.2
Earthed accessible conductive part test	5.7.2.2, 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
Simulated abnormal operating and single fault conditions	B.3, B.4
Test for permanence of markings	Annex F.3.10
Transformer insulation	G.5.3.2
Transformer overload	G.5.3.3
Safeguards against entry of foreign object	Annex P2.2
Adhesive test	Annex P.4
Limited power source test (LPS)	Annex Q.1
Limited short circuit test	Annex R
Steady force test, 10N, 30N, 250N	Annex T.2, T.3, T.5
Enclosure impact test	Annex T.6
Stress relief test	Annex T.8

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, AU, CA, DK, FI, IT, JP, NZ, SE, US

Explanation of used codes: AU=Australia, CA=Canada, DK=Denmark, FI=Finland, IT=Italy, JP=Japan, NZ=New Zealand, SE=Sweden, US=United States of America

☑ The product fulfils the requirements of EN 62368-1:2014+ A11:2017.

For National Differences see corresponding Attachment.

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.









Noto:

All models' rating labels are in the same design except for type designation. Above labels are representing the other models.

TEST ITEM PARTICULARS:	
Classification of use by:	 ☑ Ordinary person ☐ Instructed person ☐ Skilled person ☑ Children likely to be present
Supply Connection:	□ AC Mains □ DC Mains □ External Circuit - not Mains connected - □ ES1 □ ES2 □ ES3
Supply % Tolerance:	□ +10%/-10%□ +20%/-15%□ +%/%□ None
Supply Connection – Type:	□ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ mating connector □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector □ other:
Considered current rating of protective device as part of building or equipment installation	<u>20</u> A; Installation location: ⊠ building; ☐ equipment
Equipment mobility:	□ movable □ hand-held □ transportable □ stationary □ for building-in □ direct plug-in □ rack-mounting □ wall-mounted
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC IV □ other:
Class of equipment:	☐ Class II ☐ Class III
Access location:	☐ restricted access location ☐ N/A
Pollution degree (PD):	☐ PD 1
Manufacturer's specified maxium operating ambient:	40°C
IP protection class:	☑ IPX0 ☐ IP
Power Systems:	☑ TN ☐ TT ☐ IT V L-L
Altitude during operation (m):	☐ 2000 m or less ⊠ <u>5000</u> m
Altitude of test laboratory (m):	☑ 2000 m or less ☐ m
Mass of equipment (kg):	Whole unit without base: max. 4.25kg; base A: 1.65kg; base type B: 0.60kg.
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	Jan.10, 2020	
Date (s) of performance of tests	Jan.11, 2020 – Mar.08, 2020	
GENERAL REMARKS:		
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. 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)::

- 1 TPV Display Technology (Wuhan) Co., Ltd Unique No.11 Zhuankou Development District of Economic Technological Development Zone, 430056 Wuhan City, P. R. China
- 2 TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road Fuqing City, Fujian, P.R.China
- 3 L&T Display Technology (Fujian) Ltd Optoelectronic Park, Rongqiao Economic and Technological Development Zone Fuqing, 350301 Fujian, P.R. China
- 4 TPV Electronics (Fujian) Co., Ltd.
 Rongqiao Economic and Technological Development
 Zone Fuqing City, Fujian, P.R.China
- 5 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
- 6 TPV Display Technology (China) Co., Ltd No.106 Jinghai 3 Rd., BDA, 100176 Beijing, P. R. China
- 7 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
- 8 TPV Technology(Qingdao) Co.,Ltd.
 NO.99 Huoju Road, High-tech Industrial Development
 Zone, Qingdao City, Shandong, P. R. China
- 9 Envision Indústria de Produtos Eletrônicos Ltda. Av. Torquato Tapajós, 2236, Flores - CEP 69058-830 -Manaus/AM Brasil
- Pro Concept Manufacturer Co., Ltd.88/1 Moo 12, Soi Phetkasem 120, Phetkasem Road,Omnoi, Krathumbaen, Samutsakhon 74130, Thailand
- TPV Technology (Thailand) Co., Ltd.267 Moo 7, Thatum Sub-District, Srimahaphot District,Prachinburi Province, Thailand
- 12 TPV Electronics (Fujian) Co., Ltd.
 Optoelectronic Park, Rongqiao Economic and
 Technological Development Zone, Fuqing City, 350301,
 Fujian, P. R. China

GENERAL PRODUCT INFORMATION:

Product Description -

The models are LCD monitor for using within the scope of this standard and has following features:

- 1. LCD panel: 27 inch TFT LCD with LED backlight;
- 2. Building-in switching power supply board;
- Building-in main board (secondary circuit);
- 4. Building-in USB board (secondary circuit);
- 5. Internal speaker (secondary circuit, two sets, optional use);
- 6. The internal metal chassis is considered as fire enclosure and mechanical enclosure, and the external plastic enclosure is regarded as electrical enclosure and mechanical enclosure, made of min. HB material;
- 7. Base stand (optional use), made of metal and min. HB plastic material;
- 8. Maximum declared ambient: 40°C.

Model Differences -

All models are identical except for type designation. All models have four alternative constructions, see table 2 for details.

Table 1: Definition of variable(s):

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

Table 2: construction details

Constru ction	Power board	Main board	USB board	Metal enclosure	Base	Speaker (two sets)
1	715G7610 (with AC switch)	715G9485 type A or 715G9485 type B or 715G9496 or 715G9483	715GB017	Туре А	Туре А	Optional
2	715G7610 (without AC switch)	715G9496	N/A	Туре В	Туре В	Optional
3	715G7300	715G9494	N/A	Туре В	Туре В	Optional
4	715GB004	715GA987	715GB001	Type C	Туре А	N/A

Supplementary information:

- 1. Base stand type A is rotational type, clockwise 90° or anti-clockwise 90°. Base stand type B is non-rotational type.
- 2. Metal enclosure type B is similar to type A except to cancel one small metal shell for USB board.

Additional application considerations – (Considerations used to test a component or sub-assembly) – N/A

ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.)

(Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.

Electrically-caused injury (Clause 5):

(Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source

classification)

Example: +5 V dc input ES1

Source of electrical energy	Corresponding classification (ES)
All Primary circuits	ES3
Secondary outputs of power board	ES1
All output connectors	ES1
Plastic/Metal Enclosure	ES1

Electrically-caused fire (Clause 6):

(Note: List sub-assembly or circuit designation and corresponding energy source classification) Example: Battery pack (maximum 85 watts):

PS2

Source of power or PIS	Corresponding classification (PS)
Building-in power board circuit (Both primary and secondary circuit)	PS3
Secondary outputs of power board	PS2

Injury caused by hazardous substances (Clause 7)

(Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.)

Example: Liquid in filled component Glycol

Source of hazardous substances	Corresponding chemical
N/A	N/A

Mechanically-caused injury (Clause 8)

(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.) Example: Wall mount unit MS2

Source of kinetic/mechanical energy	Corresponding classification (MS)
Sharp edges and corners	MS1
Equipment mass	MS1
Wall mount	MS3

Thermal burn injury (Clause 9)

(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.)

Example: Hand-held scanner – thermoplastic enclosure TS1

Source of thermal energy	Corresponding classification (TS)
Accessible parts	TS1

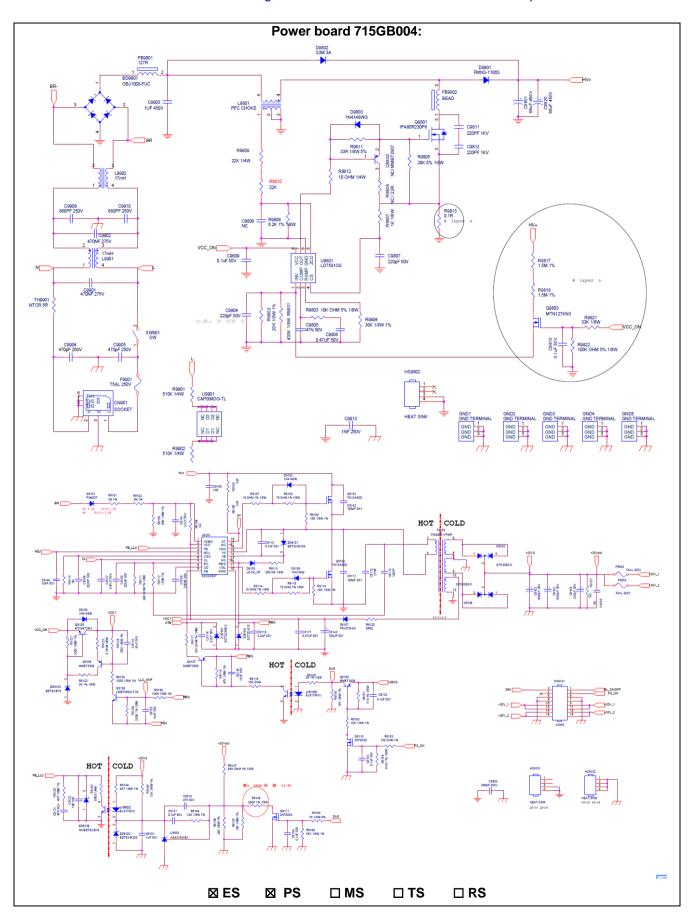
Radiation (Clause 10)

(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1

Type of radiation	Corresponding classification (RS)
Indicating lights	RS1

ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:		
Photo coupler	RS1	
LED backlight of LCD panel	RS1	

ENERGY SOURCE DIAGRAM Indicate which energy sources are included in the energy source diagram. Insert diagram below See "Source of electrical energy" and "Source of power or PIS" on previous page for details **Power board 715G7610:** R901 100K 1/4W R903 100K 1/4W R905 51 OHM 1/4 R912 R9901 1M R9902 1M R9903 1M C9902 2.2NF 250V R923 2K4 Q901 K8A65D U902 EL817M(X) R924 1.5KOHM +-1% 1/8W C914 +19V NC/820K + 1/8W FOR D901 ON/OFF DIM FOR Q901 Power board 715G7300: R920 1 OHM



OVERVIEW OF EMPLOYED SAFE	GUARDS			
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part	Energy Source		Safeguards	
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementa ry	Reinforced (Enclosure)
Ordinary	ES3: Primary circuit	N/A	N/A	Enclosure, transformer, Opto coupler, Y-capacitor
Ordinary	ES3: L/N pin of appliance inlet (after disconnection of mains)	N/A	N/A	Bleeder Resistors, Discharge IC
Ordinary	ES1: secondary outputs of power board	N/A	N/A	N/A
Ordinary	ES1: All output connectors	N/A	N/A	N/A
Ordinary	ES1: Plastic/Metal enclosure	N/A	N/A	N/A
6.1	Electrically-caused fire			
Material part	Energy Source		Safeguards	
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementa ry	Reinforced
Combustible materials within equipment fire enclosure	PS3: > 100 Watt circuit (Primary circuits)	No ignition occurs see subclause 6.3	see sub- clause 6.4.5, 6.4.6 for detail	N/A
	PS2: < 100 Watt circuit (Secondary circuits)		see sub- clause 6.4.5 for detail	N/A
Internal wiring material	PS2: < 100 Watt circuit (Secondary circuits)	No ignition occurs see subclause 6.3	see sub- clause 6.5 for detail	N/A
7.1	Injury caused by hazardous	substances		
Body Part	Energy Source	Safeguards		
(e.g., skilled)	(hazardous material)	Basic	Supplementa ry	Reinforced
N/A	N/A	N/A	N/A	N/A
8.1	Mechanically-caused injury			
Body Part	Energy Source		Safeguards	
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplementa ry	Reinforced (Enclosure)
Ordinary	MS1: Edges and corners	N/A	N/A	N/A
Ordinary	MS3: Wall mount	N/A	N/A	Compliance with test 8.7.2
Ordinary	MS1: Mass of the unit	N/A	N/A	N/A

9.1	Thermal Burn				
Body Part	dy Part Energy Source (TS2)		Safeguards		
(e.g., Ordinary)		Basic	Supplementa ry	Reinforced	
Ordinary	TS1: Accessible parts	N/A	N/A	N/A	
10.1	Radiation				
Body Part	Energy Source (Output from audio port)	Safeguards			
(e.g., Ordinary)		Basic	Supplementa ry	Reinforced	
Ordinary	RS1: Indicating lights	N/A	N/A	N/A	
Ordinary	RS1: Photo coupler	N/A	N/A	N/A	
Ordinary	RS1: LED backlight of LCD panel	N/A	N/A	N/A	

Supplementary Information:

- (1) See attached energy source diagram for additional details.
- (2) "N" Normal Condition; "A" Abnormal Condition; "S" Single Fault

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

4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	See appended table 4.1.2.	Р
4.1.2	Use of components	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
4.1.15	Markings and instructions:	(See Annex F)	Р
4.4.4	Safeguard robustness	For adhesives securing parts serving as safeguards, see Annex P.4. Others see below.	Р
4.4.4.2	Steady force tests:	(See Annex T.4, T.5)	P
4.4.4.3	Drop tests:	(See Annex T.7)	N/A
4.4.4.4	Impact tests	(See Annex T.6)	P
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	(See Annex T.3)	Р
4.4.4.6	Glass Impact tests:	Laminated glass used.	N/A
4.4.4.7	Thermoplastic material tests:	Phenolic material used and described in subclauses 5.4.1.10 to 5.4.1.10.3. 70°C, 7 hours, no deformation on all sources of plastic enclosure.	Р
4.4.4.8	Air comprising a safeguard:	(See Annex T)	Р
4.4.4.9	Accessibility and safeguard effectiveness	No damage. The class 3 and class 2 energy sources could not become accessible to an ordinary person, and all other safeguards remain effective during and after above tests.	Р
4.5	Explosion	No explosion occurs during normal/abnormal operation and single fault conditions.	Р
4.6	Fixing of conductors	See below.	Р
4.6.1	Fix conductors not to defeat a safeguard		Р
4.6.2	10 N force test applied to:	See appended table 5.4.2.2, 5.4.2.4 and 5.4.3	Р
4.7	Equipment for direct insertion into mains socket - outlets		N/A
4.7.2	Mains plug part complies with the relevant standard:		N/A

	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
4.7.3	Torque (Nm):		N/A	
4.8	Products containing coin/button cell batteries	No lithium coin/button batteries used.	N/A	
4.8.2	Instructional safeguard		N/A	
4.8.3	Battery Compartment Construction		N/A	
	Means to reduce the possibility of children removing the battery:		_	
4.8.4	Battery Compartment Mechanical Tests:		N/A	
4.8.5	Battery Accessibility		N/A	
4.9	Likelihood of fire or shock due to entry of conductive object:	(See Annex P)	Р	

5	ELECTRICALLY-CAUSED INJURY		Р
5.2.1	Electrical energy source classifications:	See ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE.	Р
5.2.2	ES1, ES2 and ES3 limits	See below.	Р
5.2.2.2	Steady-state voltage and current:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits	(See appended table 5.2)	Р
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	See below.	Р
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons	See "OVERVIEW OF EMPLOYED SAFEGUARDS" table.	Р
5.3.2.1	Accessibility to electrical energy sources and safeguards	ES2 or ES3 source cannot access by ordinary persons and ES3 source cannot accessed by instructed persons. Double or reinforced safeguard is provided between ES2 or ES3 and ordinary persons or instructed persons.	Р
5.3.2.2	Contact requirements	See above.	Р
	a) Test with test probe from Annex V:	Test probe V.1, V.2 applied.	Р
	b) Electric strength test potential (V):		N/A
	c) Air gap (mm):	Complied with the minimum distance requirement. (See appended table 5.4.2.2,	Р
		5.4.2.4 and 5.4.3.)	
5.3.2.4	Terminals for connecting stripped wire	No such terminals.	N/A
5.4	Insulation materials and requirements		Р

	IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
5.4.1.2	Properties of insulating material	Hygroscopic materials are not used for insulating material.	Р	
5.4.1.3	Humidity conditioning:	(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 degree:	Pollution degree 2.	_	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		N/A	
5.4.1.5.3	Thermal cycling		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	Tested on power board 715G7300: Max. Vpeak of T901 = 550V Max. Vrms of T901 = 236V;	Р	
		Tested on power board 715G7610: Max. Vpeak of T901 = 494V Max. Vrms of T901 = 256V;		
		Tested on power board 715GB004: Max. Vpeak of T901 = 441V Max. Vrms of T901 = 268V;		
5.4.1.9	Insulating surfaces	Considered.	Р	
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	Bobbin materials of all transformers are Phenolic that is accepted without further tests. Others see appended table 5.4.1.10.3.	Р	
5.4.1.10.2	Vicat softening temperature:		N/A	
5.4.1.10.3	Ball pressure:	See above.	Р	
5.4.2	Clearances	See below.	Р	
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2, 5.4.2.4 and 5.4.3)	Р	
5.4.2.3	Determining clearance using required withstand voltage:	(See appended table 5.4.2.3)	Р	
	a) a.c. mains transient voltage:	2500V	_	
	b) d.c. mains transient voltage:			
	c) external circuit transient voltage:		_	
	d) transient voltage determined by measurement		_	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test		N/A	
5.4.2.5	Multiplication factors for clearances and test voltages	Multiplication factor is 1.48 for altitude up to 5000m.	Р	
5.4.3	Creepage distances:	(See appended table 5.4.2.2, 5.4.2.4 and 5.4.3)	Р	
5.4.3.1	General	See below.	Р	

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.3.3	Material Group:	Material group IIIb assumed.	_
5.4.4	Solid insulation	See below.	Р
5.4.4.2	Minimum distance through insulation:	(See appended table 5.4.4.2)	Р
5.4.4.3	Insulation compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices	Complies with Clause G.12.	Р
5.4.4.5	Cemented joints		N/A
5.4.4.6	Thin sheet material	See below.	Р
5.4.4.6.1	General requirements	See below.	Р
5.4.4.6.2	Separable thin sheet material	(See appended Table 5.4.9)	Р
	Number of layers (pcs):	2	Р
5.4.4.6.3	Non-separable thin sheet material		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material		N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components	See G.5.3 and G.6.1 only.	Р
5.4.4.9	Solid insulation at frequencies >30 kHz:	(See appended Table 5.4.4.9) or (See appended Table 5.4.9)	Р
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
	Insulation resistance (MΩ):		_
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	Complied.	Р
	Relative humidity (%):	95	
	Temperature (°C):	40	_
	Duration (h)	120	_
5.4.9	Electric strength test	(See appended table 5.4.9)	Р
5.4.9.1	Test procedure for a solid insulation type test	(See appended table 5.4.9)	Р
5.4.9.2	Test procedure for routine tests		N/A
5.4.10	Protection against transient voltages between external circuit	No such external circuit subject to transients.	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

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.10.2.3	Steady-state test:		N/A
5.4.11	Insulation between external circuits and earthed circuitry		N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A
	Rated operating voltage U _{op} (V):		
	Nominal voltage U _{peak} (V):		_
	Max increase due to variation U _{sp} :		_
	Max increase due to ageing ΔUsa:		_
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$:		_
5.5	Components as safeguards		Р
5.5.1	General		Р
5.5.2	Capacitors and RC units		Р
5.5.2.1	General requirement	X-Cap. and Y-Cap. are IEC 60384- 14 approval components and complied with Annex G.11.	Р
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	(See appended table 5.5.2.2)	Р
5.5.3	Transformers	(See Annex G.5.3)	Р
5.5.4	Optocouplers	(See sub-clause 5.4)	Р
5.5.5	Relays		N/A
5.5.6	Resistors	Approved bleeding resistors used. (See Annex G.10)	Р
5.5.7	SPD's		N/A
5.5.7.1	Use of an SPD connected to reliable earthing		N/A
5.5.7.2	Use of an SPD between mains and protective earth		N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:		N/A
5.6	Protective conductor		Р
5.6.2	Requirement for protective conductors	Protective conductor served as a supplementary safeguard to prevent accessible conductive parts from exceeding ES2 limits.	Р
5.6.2.1	General requirements	No switch or overcurrent protective device in protective conductor.	Р
5.6.2.2	Colour of insulation	No insulation used for protective bonding conductor	N/A
5.6.3	Requirement for protective earthing conductors	No power cord provided.	N/A
	Protective earthing conductor size (mm²)		_
5.6.4	Requirement for protective bonding conductors	See below.	P

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Clause	Requirement + Test	Result - Remark	Verdict
5.6.4.1	Protective bonding conductors	Protective bonding traces complied with 5.6.6 and Annex R.	Р
	Protective bonding conductor size (mm²)	See above.	_
	Protective current rating (A):	20A	_
5.6.4.3	Current limiting and overcurrent protective devices	No current limiting and overcurrent protective devices in parallel with any other components.	Р
5.6.5	Terminals for protective conductors	See below.	Р
5.6.5.1	Requirement	Screws fixing earthed PCB trace to metal chassis for protective bonding. Size of screws is according with Table 32.	Р
	Conductor size (mm²), nominal thread diameter (mm).	Min. Ø3.7mm screw used.	Р
5.6.5.2	Corrosion	Complied.	Р
5.6.6	Resistance of the protective system	See below.	Р
5.6.6.1	Requirements	See below.	Р
5.6.6.2	Test Method Resistance (Ω)	(See appended table 5.6.6.2)	Р
5.6.7	Reliable earthing		N/A
5.7	Prospective touch voltage, touch current and prote	ctive conductor current	Р
5.7.2	Measuring devices and networks	Figure 5 of IEC 60990 was used in determining of the limit of ES2.	Р
5.7.2.1	Measurement of touch current	(See appended table 5.7.2.2, 5.7.4)	Р
5.7.2.2	Measurement of prospective touch voltage	(See appended table 5.7.2.2, 5.7.4)	Р
5.7.3	Equipment set-up, supply connections and earth connections	Clause 4, 5.3 and 5.4 of IEC 60990: 1999 applied.	Р
	System of interconnected equipment (separate connections/single connection)	Single equipment.	_
	Multiple connections to mains (one connection at a time/simultaneous connections)	Single connection.	_
5.7.4	Earthed conductive accessible parts	(See appended Table 5.7.4)	Р
5.7.5	Protective conductor current	Protective conductor current does not exceed the ES2 limits.	Р
	Supply Voltage (V)	240	_
	Measured current (mA)	0.6	_
	Instructional Safeguard		N/A
5.7.6	Prospective touch voltage and touch current due to external circuits		N/A
5.7.6.1	Touch current from coaxial cables		N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits		N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
5.7.7	Summation of touch currents from external circuits		N/A	
	a) Equipment with earthed external circuits Measured current (mA):		N/A	
	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):		N/A	

(PIS) P
SOURCE P ON AND ION TABLE.
Р
d table 6.2.2)
d table 6.2.2)
d table 6.2.2) N/A
d table 6.2.2)
d table 6.2.2)
Р
s located within the considered as
s located within the considered as
ating conditions P
d table 5.4.1.5, P
d table 5.4.1.5, P
Р
Control fire spread" is P
N/A
dec

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.3.3	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. - Isolating transformer: complying with G.5.3. (See appended tables 4.1.2 and Annex G)	Р
6.4.6	Control of fire spread in PS3 circuit	Compliance detailed as follows: - Parts as in 6.4.5 above - No components subject to arcing - Fire enclosure provided –see 6.4.8. Other parts within the fire enclosure are min. V-2 or better.	Р
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.1	General:		N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier		N/A
6.4.8	Fire enclosures and fire barriers	See below.	Р
6.4.8.1	Fire enclosure and fire barrier material properties	Metal enclosure and V-0 mylar sheet used as fire enclosure.	Р
6.4.8.2.1	Requirements for a fire barrier		N/A
6.4.8.2.2	Requirements for a fire enclosure	As above.	Р
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		Р
6.4.8.3.1	Fire enclosure and fire barrier openings	See below.	Р
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	See table 6.4.8.3.3, 6.4.8.3.4 & P.2.2 for details.	Р
	Needle Flame test		N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	See table 6.4.8.3.3, 6.4.8.3.4 & P.2.2 for details.	Р

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Clause	Requirement + Test	Result - Remark	Verdict
	Flammability tests for the bottom of a fire enclosure		N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):	No door or cover in fire enclosure	N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	Metal enclosure and V-0 mylar sheet provided.	Р
6.5	Internal and external wiring		Р
6.5.1	Requirements	All wiring fulfil VW-1 requirement, which was considered compliance equivalent to IEC/TS 60695-11-21.	Р
6.5.2	Cross-sectional area (mm²)	See above.	_
6.5.3	Requirements for interconnection to building wiring	No such interconnection to building wiring.	N/A
6.6	Safeguards against fire due to connection to additional equipment	All power delivering output connectors complied with Annex Q.1	Р
	External port limited to PS2 or complies with Clause Q.1	See above.	Р

7	INJURY CAUSED BY HAZARDOUS SUBSTANC	INJURY CAUSED BY HAZARDOUS SUBSTANCES	
7.2	Reduction of exposure to hazardous substances	No hazardous chemicals within the equipment.	Р
7.3	Ozone exposure	No ozone production within the equipment.	N/A
7.4	Use of personal safeguards (PPE)		N/A
	Personal safeguards and instructions:		_
7.5	Use of instructional safeguards and instructions		N/A
	Instructional safeguard (ISO 7010)		_
7.6	Batteries:	No battery used.	N/A

8	MECHANICALLY-CAUSED INJURY		Р
8.1	General		Р
8.2	Mechanical energy source classifications	See ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE.	Р
8.3	Safeguards against mechanical energy sources	See "OVERVIEW OF EMPLOYED SAFEGUARDS" table.	Р
8.4	Safeguards against parts with sharp edges and corners	No sharp edges and corners in accessible area.	Р
8.4.1	Safeguards		N/A
8.5	Safeguards against moving parts		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
8.5.2	Instructional Safeguard:		_
8.5.4	Special categories of equipment comprising moving parts		N/A
8.5.4.1	Large data storage equipment		N/A
8.5.4.2	Equipment having electromechanical device for destruction of media		N/A
8.5.4.2.1	Safeguards and Safety Interlocks		N/A
8.5.4.2.2	Instructional safeguards against moving parts		N/A
	Instructional Safeguard		_
8.5.4.2.3	Disconnection from the supply		N/A
8.5.4.2.4	Probe type and force (N)		N/A
8.5.5	High Pressure Lamps		N/A
8.5.5.1	Energy Source Classification		N/A
8.5.5.2	High Pressure Lamp Explosion Test		N/A
8.6	Stability	See below	Р
8.6.1	Product classification	See Clause 8.2 & 8.3	Р
	Instructional Safeguard		_
8.6.2	Static stability	MS1 equipment.	Р
8.6.2.2	Static stability test	Test was conducted by client's request. Unit did not fall over when tilted to an angle of 10° from its normal upright position.	Р
	Applied Force	See above.	_
8.6.2.3	Downward Force Test	Not floor standing equipment.	N/A
8.6.3	Relocation stability test		N/A
	Unit configuration during 10° tilt		_
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force):		N/A
	Position of feet or movable parts:		_
8.7	Equipment mounted to wall or ceiling		Р
8.7.1	Mounting Means (Length of screws (mm) and mounting surface):	No wall mounting system provided. Only four M4 x 12mm screws evaluated.	Р
8.7.2	Direction and applied force:	Test 2: 4.25kg applied for each point (four directions plus inward and outward). Test 3: 1.2 Nm applied.	Р
8.8	Handles strength	No handles.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
8.8.1	Classification		N/A	
8.8.2	Applied Force		N/A	
8.9	Wheels or casters attachment requirements		N/A	
8.9.1	Classification		N/A	
8.9.2	Applied force:		_	
8.10	Carts, stands and similar carriers		N/A	
8.10.1	General		N/A	
8.10.2	Marking and instructions		N/A	
	Instructional Safeguard:		_	
8.10.3	Cart, stand or carrier loading test and compliance		N/A	
	Applied force:		_	
8.10.4	Cart, stand or carrier impact test		N/A	
8.10.5	Mechanical stability		N/A	
	Applied horizontal force (N):		_	
8.10.6	Thermoplastic temperature stability (°C):		N/A	
8.11	Mounting means for rack mounted equipment		N/A	
8.11.1	General		N/A	
8.11.2	Product Classification		N/A	
8.11.3	Mechanical strength test, variable N		N/A	
8.11.4	Mechanical strength test 250N, including end stops		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	See ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE.	Р
9.3	Safeguard against thermal energy sources	No safeguards are required for TS1.	N/A
9.4	Requirements for safeguards		N/A
9.4.1	Equipment safeguard		N/A
9.4.2	Instructional safeguard		N/A

10	RADIATION		Р
10.2	Radiation energy source classification	See below.	Р
10.2.1	General classification	The following parts are considered as RS1 without tests: - Indicating lights	Р
		- Photo coupler	

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Clause	Requirement + Test	Result - Remark	Verdict
		- LED backlight of LCD panel For LED backlight, the luminance is far less than 10000 cd/m2. With reference to sub clause 4.1 of IEC 62471:2006 no further test is necessary.	
10.3	Protection against laser radiation		N/A
	Laser radiation that exists equipment:		_
	Normal, abnormal, single-fault:		N/A
	Instructional safeguard:		_
	Tool:		_
10.4	Protection against visible, infrared, and UV radiation		N/A
10.4.1	General		N/A
10.4.1.a)	RS3 for Ordinary and instructed persons:		N/A
10.4.1.b)	RS3 accessible to a skilled person:		N/A
	Personal safeguard (PPE) instructional safeguard:		_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1.:		N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:		N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque:		N/A
10.4.1.f)	UV attenuation:		N/A
10.4.1.g)	Materials resistant to degradation UV:		N/A
10.4.1.h)	Enclosure containment of optical radiation:		N/A
10.4.1.i)	Exempt Group under normal operating conditions:		N/A
10.4.2	Instructional safeguard:		N/A
10.5	Protection against x-radiation		N/A
10.5.1	X- radiation energy source that exists equipment:		N/A
	Normal, abnormal, single fault conditions		N/A
	Equipment safeguards:		N/A
	Instructional safeguard for skilled person:		N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation		_
	Abnormal and single-fault condition:		N/A
	Maximum radiation (pA/kg):		N/A
10.6	Protection against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification		N/A

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Requirement + Test	Result - Remark	Verdict
Acoustic output, dB(A):		N/A
Output voltage, unweighted r.m.s:		N/A
Protection of persons		N/A
Instructional safeguards:		N/A
Equipment safeguard prevent ordinary person to RS2:		_
Means to actively inform user of increase sound pressure:		_
Equipment safeguard prevent ordinary person to RS2:		_
Requirements for listening devices (headphones, earphones, etc.)		N/A
Corded passive listening devices with analog input		N/A
Input voltage with 94 dB(A) L _{Aeq} acoustic pressure output:		_
Corded listening devices with digital input		N/A
Maximum dB(A):		_
Cordless listening device		N/A
Maximum dB(A):		_
	Requirement + Test Acoustic output, dB(A)	Requirement + Test Acoustic output, dB(A)

В	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		Р
B.2	Normal Operating Conditions	See below	Р
B.2.1	General requirements:	(See Test Item Particulars and appended test tables)	Р
	Audio Amplifiers and equipment with audio amplifiers:	(See Annex E)	Р
B.2.3	Supply voltage and tolerances	Considered	Р
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions		Р
B.3.1	General requirements:	(See appended table B.3)	Р
B.3.2	Covering of ventilation openings	(See appended table B.3)	Р
B.3.3	D.C. 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)	Р
B.3.6	Reverse battery polarity		N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	(See appended table B.3)	Р

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Clause	Requirement + Test	Result - Remark	Verdict
B.3.8	Safeguards functional during and after abnormal operating conditions	Abnormal operating condition does not lead to a single fault condition, all safeguards remain effective. After restoration of normal operating conditions, all safeguards comply with applicable requirements.	Р
B.4	Simulated single fault conditions	requirements	Р
B.4.2	Temperature controlling device open or short-circuited:	No such devices.	N/A
B.4.3	Motor tests		N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature:		N/A
B.4.4	Short circuit of functional insulation	For traces before fuse, comply with the clearance/creepage for basic insulation, others are considered to perform short-circuited during the tests. See appended Table B.4	Р
B.4.4.1	Short circuit of clearances for functional insulation	See above.	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	See above.	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards		N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	See appended Table B.4	Р
B.4.6	Short circuit or disconnect of passive components	See appended Table B.4	Р
B.4.7	Continuous operation of components		N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	See appended Table B.4	Р
B.4.9	Battery charging under single fault conditions:		N/A
С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		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 apparatus		N/A
C.2.4	Xenon-arc light exposure apparatus		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		Р
E.1	Audio amplifier normal operating conditions	The audio with maximum volume with 1 kHz recorder adjusted to maximum output power.	Р
	Audio signal voltage (V):	1.6Vrms	
	Rated load impedance (Ω):	4	_
E.2	Audio amplifier abnormal operating conditions	No hazards for component fault of audio circuit.	Р
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General requirements	See below.	Р
	Instructions – Language:	English. The instructions in other languages will be provided during the national approval.	1
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1		Р
F.2.2	Graphic symbols 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.	
F.3.2.2	Model identification:	See copy of marking plate.	
F.3.3	Equipment rating markings	See below.	Р
F.3.3.1	Equipment with direct connection to mains	The equipment is connected to AC mains supply.	Р
F.3.3.2	Equipment without direct connection to mains		N/A
F.3.3.3	Nature of supply voltage:	See copy of marking plate.	_
F.3.3.4	Rated voltage:	See copy of marking plate.	
F.3.3.4	Rated frequency:	See copy of marking plate.	
F.3.3.6	Rated current or rated power:	See copy of marking plate.	
F.3.3.7	Equipment with multiple supply connections	Only one supply connection.	N/A
F.3.4	Voltage setting device	No such devices within the equipment.	N/A
F.3.5	Terminals and operating devices	See below.	Р
F.3.5.1	Mains appliance outlet and socket-outlet markings:		N/A
F.3.5.2	Switch position identification marking:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
F.3.5.3	Replacement fuse identification and rating markings:	The fuse marking is marked near fuse on PCB as follow: On power board 715G7300: F901(on primary): T3.15AL/250Vac CAUTION: RISK OF FIRE REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE. On power board 715G7610: F9901(on primary): T5AL/250V CAUTION: RISK OF FIRE REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE. On power board 715GB004: F9901(on primary): T5AL/250V CAUTION: RISK OF FIRE REPLACE ONLY WITH SAME TYPE AND RATING CAUTION: RISK OF FIRE REPLACE ONLY WITH SAME TYPE AND RATING	P
		OF FUSE. Not located in operator access areas.	
F.3.5.4	Replacement battery identification marking:		N/A
F.3.5.5	Terminal marking location		Р
F.3.6	Equipment markings related to equipment classification		Р
F.3.6.1	Class I Equipment	See below.	Р
F.3.6.1.1	Protective earthing conductor terminal	Appliance inlet is provided. The symbol IEC 60417-5019 was located on appliance inlet.	Р
F.3.6.1.2	Neutral conductor terminal		N/A
F.3.6.1.3	Protective bonding conductor terminals		N/A
F.3.6.2	Class II equipment (IEC60417-5172)		N/A
F.3.6.2.1	Class II equipment with or without functional earth		N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking		N/A
F.3.7	Equipment IP rating marking:		_
F.3.8	External power supply output marking		N/A
F.3.9	Durability, legibility and permanence of marking	See below.	Р

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Clause	Requirement + Test	Result - Remark	Verdict	
F.3.10	Test for permanence of markings	The marking plate was subjected to the permanence of marking test. The marking plate was rubbed with cloth soaked with water for 15 s and then again for 15 s with the cloth soaked with petroleum spirit.	Р	
		After each test, there was no damage to the marking plate. The marking on the label did not fade. There was no curling of the marking plate and removed by hand.		
F.4	Instructions		Р	
	a) Equipment for use in locations where children not likely to be present - marking		N/A	
	b) Instructions given for installation or initial use	Provided in user's manual.	Р	
	c) Equipment intended to be fastened in place	Wall mounting instruction provided in user's manual.	Р	
	d) Equipment intended for use only in restricted access area		N/A	
	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1		N/A	
	f) Protective earthing employed as safeguard	The instruction is provided in the user's manual.	Р	
	g) Protective earthing conductor current exceeding ES 2 limits	Not exceed the ES2 limits.	N/A	
	h) Symbols used on equipment	Graphical symbols not used as an instructional safeguard.	N/A	
	i) Permanently connected equipment not provided with all-pole mains switch		N/A	
j)	j) Replaceable components or modules providing safeguard function		N/A	
F.5	Instructional safeguards	No instructional safeguard required.	N/A	
	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction		N/A	
G	COMPONENTS		Р	
G.1	Switches		N/A	
G.1.1	General requirements		N/A	
G.1.2	Ratings, endurance, spacing, maximum load		N/A	
G.2	Relays		N/A	
G.2.1	General requirements		N/A	
G.2.2	Overload test		N/A	
G.2.3	Relay controlling connectors supply power		N/A	

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Clause	Requirement + Test	Result - Remark	Verdict
G.2.4	Mains relay, modified as stated in G.2		N/A
G.3	Protection Devices		Р
G.3.1	Thermal cut-offs		N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Thermal cut-off connections maintained and secure		N/A
G.3.2	Thermal links		N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691		N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A
	Aging hours (H):		_
	Single Fault Condition		_
	Test Voltage (V) and Insulation Resistance (Ω). :		_
G.3.3	PTC Thermistors		N/A
G.3.4	Overcurrent protection devices	Current fuse complying with IEC 60127 as overcurrent protection device.	Р
G.3.5	Safeguards components not mentioned in G.3.1 to	G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions:	(See appended Table B.4)	N/A
G.4	Connectors		Р
G.4.1	Spacings	The appliance inlet complied with IEC 60320-1.	Р
G.4.2	Mains connector configuration:	The appliance inlet complied with IEC 60320-1.	Р
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely	No misconnection likely.	Р
G.5	Wound Components		Р
G.5.1	Wire insulation in wound components	(See Annex J)	Р
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	Physical separation provided by tape or insulating sleeving to relieve mechanical stress at the crossover point.	Р
G.5.1.2 b)	Construction subject to routine testing		N/A
G.5.2	Endurance test on wound components		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Time (s):		_

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Clause	Requirement + Test	Result - Remark	Verdict	
	Temperature (°C)		_	
G.5.2.3	Wound Components supplied by mains		N/A	
G.5.3	Transformers		Р	
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1):	Meet the requirements in G.5.3.2 and G.5.3.3.	Р	
	Position:	(See appended table G.5.3.2)		
	Method of protection:	Overcurrent protection.	_	
G.5.3.2	Insulation	(See appended table G.5.3.2)	Р	
	Protection from displacement of windings:	Displacement of windings is unlikely.	_	
G.5.3.3	Overload test:	(See appended table B.3 & B.4)	Р	
G.5.3.3.1	Test conditions	Tested in the complete equipment.	Р	
G.5.3.3.2	Winding Temperatures testing in the unit	(See appended table B.3 & B.4)	Р	
G.5.3.3.3	Winding Temperatures - Alternative test method		N/A	
G.5.4	Motors		N/A	
G.5.4.1	General requirements		N/A	
	Position:		_	
G.5.4.2	Test conditions		N/A	
G.5.4.3	Running overload test		N/A	
G.5.4.4	Locked-rotor overload test		N/A	
	Test duration (days):			
G.5.4.5	Running overload test for d.c. motors in secondary circuits		N/A	
G.5.4.5.2	Tested in the unit		N/A	
	Electric strength test (V)			
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)		N/A	
	Electric strength test (V)		_	
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits		N/A	
G.5.4.6.2	Tested in the unit		N/A	
	Maximum Temperature		N/A	
	Electric strength test (V)		N/A	
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h):		N/A	
	Electric strength test (V)		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	

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Clause	Requirement + Test	Result - Remark	Verdict

	Operating voltage:		_
G.6	Wire Insulation		Р
G.6.1	General	Approved triple insulated wire used in trainsformer.	Р
G.6.2	Solvent-based enamel wiring insulation		N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements	No mains supply cord provided.	N/A
	Туре:		_
	Rated current (A)		_
	Cross-sectional area (mm²), (AWG):		_
G.7.2	Compliance and test method		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):		_
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		_
G.7.3.2.4	Strain relief comprised of polymeric material		N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Mass (g):		_
	Diameter (m)		_
	Temperature (°C):		_
G.7.6	Supply wiring space		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Test with 8 mm strand		N/A
G.8	Varistors		N/A
G.8.1	General requirements		N/A
G.8.2	Safeguard against shock		N/A
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test		N/A
G.8.3.3	Temporary overvoltage:		N/A
G.9	Integrated Circuit (IC) Current Limiters		N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.		N/A
G.9.1 b)	Limiters do not have manual operator or reset		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.9.1 c)	Supply source does not exceed 250 VA:		_
G.9.1 d)	IC limiter output current (max. 5A):		_
G.9.1 e)	Manufacturers' defined drift:		_
G.9.2	Test Program 1		N/A
G.9.3	Test Program 2		N/A
G.9.4	Test Program 3		N/A
G.10	Resistors		Р
G.10.1	General requirements	Approved bleeding resistors used. (See appended table 4.1.2)	Р
G.10.2	Resistor test		N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable		N/A
G.10.3.1	General requirements		N/A
G.10.3.2	Voltage surge test		N/A
G.10.3.3	Impulse test		N/A
G.11	Capacitor and RC units		Р
G.11.1	General requirements	X-Capacitors and Y-Capacitors used as safeguard and complied with IEC/EN 60384-14.	Р
		(See appended table 4.1.2)	
G.11.2	Conditioning of capacitors and RC units	At least 21 days at 40 \pm 2°C and 93 \pm 3% RH.	Р
G.11.3	Rules for selecting capacitors	The selection followed with tables G.9 and G.12.	Р
G.12	Optocouplers		Р
	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results):	The optocouplers used in the equipment are complied with the requirements of IEC 60747-5-5. (see appended table 4.1.2)	Р
	Type test voltage Vini:	See above.	_
	Routine test voltage, Vini,b:	See above.	
G.13	Printed boards		P
G.13.1	General requirements	See below.	P
G.13.2	Uncoated printed boards	(see appended table 5.4.2.2, 5.4.2.4 and 5.4.3)	Р
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
	Compliance with cemented joint requirements (Specify construction):		_

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Clause	Requirement + Test	Result - Remark	Verdict
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.13.6.2a)	Thermal conditioning		N/A
G.13.6.2b)	Electric strength test		N/A
G.13.6.2c)	Abrasion resistance test		N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements:	(See G.13)	N/A
G.15	Liquid filled components		N/A
G.15.1	General requirements		N/A
G.15.2	Requirements		N/A
G.15.3	Compliance and test methods		N/A
G.15.3.1	Hydrostatic pressure test		N/A
G.15.3.2	Creep resistance test		N/A
G.15.3.3	Tubing and fittings compatibility test		N/A
G.15.3.4	Vibration test		N/A
G.15.3.5	Thermal cycling test		N/A
G.15.3.6	Force test		N/A
G.15.4	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)		Р
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	Used with approved ICX U9901. See Table 4.1.2 for the details.	Р
b)	Impulse test using circuit 2 with Uc = to transient voltage:	Certified component used	Р
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes	Certified component with suitable application of the EUT.	Р
C2)	Test voltage:	See above	
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	Certified component with suitable application of the EUT.	Р
D2)	Capacitance:	See above	_
D3)	Resistance:	See above	_
Н	CRITERIA FOR TELEPHONE RINGING SIGNALS	S	N/A
H.1	General		N/A
H.2	Method A		N/A
H.3	Method B		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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 complied with		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)		_
J	INSULATED WINDING WIRES FOR USE WITHOU	UT INTERLEAVED INSULATION	Р
	General requirements	Approved triple insulated wire used.	Р
		See appended table 4.1.2.	
K	SAFETY INTERLOCKS	T	N/A
K.1	General requirements		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
	Compliance:		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method:		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):		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 disconnected from the inlet no remaining parts with hazardous voltage in the equipment.	Р

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Clause	Requirement + Test	Result - Remark	Verdict
L.4	Single phase equipment	The 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
M	EQUIPMENT CONTAINING BATTERIES AND TH	IEIR PROTECTION CIRCUITS	N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Requirements		N/A
M.2.2	Compliance and test method (identify method):		N/A
M.3	Protection circuits		N/A
M.3.1	Requirements		N/A
M.3.2	Tests		N/A
	- Overcharging of a rechargeable battery		N/A
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		N/A
M.3.3	Compliance :::		N/A
M.4	Additional safeguards for equipment containing secondary lithium battery		N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Charging operating limits		N/A
M.4.2.2a)	Charging voltage, current and temperature:		_
M.4.2.2 b)	Single faults in charging circuitry:		_
M.4.3	Fire Enclosure		N/A
M.4.4	Endurance of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation		N/A
M.4.4.3	Drop and charge/discharge function tests		N/A
	Drop		N/A
	Charge		N/A
	Discharge		N/A
M.4.4.4	Charge-discharge cycle test		N/A
M.4.4.5	Result of charge-discharge cycle test		N/A
M.5	Risk of burn due to short circuit during carrying		N/A
M.5.1	Requirement		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A
M.6	Prevention of short circuits and protection from other effects of electric current		N/A
M.6.1	Short circuits		N/A
M.6.1.1	General requirements		N/A
M.6.1.2	Test method to simulate an internal fault		N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)		N/A
M.6.2	Leakage current (mA):		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
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m³/s):		_
M.8.2.3	Correction factors:		_
M.8.2.4	Calculation of distance d (mm):		_
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing):		N/A
N	ELECTROCHEMICAL POTENTIALS		Р
	Metal(s) used:	Complied.	_
0	MEASUREMENT OF CREEPAGE DISTANCES A	AND CLEARANCES	Р
	Figures O.1 to O.20 of this Annex applied:	Considered	_
Р	SAFEGUARDS AGAINST ENTRY OF FOREIGN INTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	Р
P.1	General requirements	See below.	Р
P.2.2	Safeguards against entry of foreign object	External plastic enclosure and internal metal enclosure used.	Р
	Location and Dimensions (mm):	(See appended table 6.4.8.3.3, 6.4.8.3.4 & P.2.2 for details)	
P.2.3	Safeguard against the consequences of entry of foreign object	See above.	Р

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Clause	Requirement + Test	Result - Remark	Verdict
P.2.3.1	Safeguards against the entry of a foreign object		Р
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts		N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):		N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness		N/A
P.4	Metallized coatings and adhesive securing parts	Glue for Ripple Capacitors is considered as safeguard.	Р
		2) Adhesive for Mylar sheet is considered as safeguard.	
P.4.2 a)	Conditioning testing		Р
	Tc (°C)	1) 119 2) 100	_
	Tr (°C):	100	_
	Ta (°C):	1) 91.0 2) 70.0	_
P.4.2 b)	Abrasion testing:		N/A
P.4.2 c)	Mechanical strength testing	See appended tables annex T.	Р
Q	CIRCUITS INTENDED FOR INTERCONNECTION	I WITH BUILDING WIRING	Р
Q.1	Limited power sources		Р
Q.1.1 a)	Inherently limited output	(See appended table Annex Q.1)	Р
Q.1.1 b)	Impedance limited output		N/A
	- Regulating network limited output under normal operating and simulated single fault condition	(See appended table Annex Q.1)	Р
Q.1.1 c)	Overcurrent protective device limited output	(See appended table Annex Q.1)	Р
Q.1.1 d)	IC current limiter complying with G.9		N/A
Q.1.2	Compliance and test method	(See appended table Annex Q.1)	Р
Q.2	Test for external circuits – paired conductor cable		N/A
	Maximum output current (A)		_
	Current limiting method		_
R	LIMITED SHORT CIRCUIT TEST		Р
R.1	General requirements	See below.	Р
R.2	Determination of the overcurrent protective device and circuit	20A circuit breaker is used.	Р

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Clause	Requirement + Test	Result - Remark	Verdict	
R.3	Test method Supply voltage (V) and short-circuit current (A)):	1500A applied. Tested between: - AC inlet GND trace and primary Y cap earthed trace; - AC inlet GND trace and primary earthed screw hole trace.	Р	
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		Р	
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A	
	Samples, material:		_	
	Wall thickness (mm):		_	
	Conditioning (°C)		_	
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A	
	- Material not consumed completely		N/A	
	- Material extinguishes within 30s		N/A	
	- No burning of layer or wrapping tissue		N/A	
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A	
	Samples, material:		_	
	Wall thickness (mm):		_	
	Conditioning (°C):		_	
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A	
	Test specimen does not show any additional hole		N/A	
S.3	Flammability test for the bottom of a fire enclosure		N/A	
	Samples, material:			
	Wall thickness (mm):			
	Cheesecloth did not ignite		N/A	
S.4	Flammability classification of materials	See table 4.1.2 for detail	Р	
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A	
	Samples, material:		_	
	Wall thickness (mm):			
	Conditioning (test condition), (°C)			
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A	
	After every test specimen was not consumed completely		N/A	

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Clause	Requirement + Test	Result - Remark	Verdict
	After fifth flame application, flame extinguished within 1 min		N/A
Т	MECHANICAL STRENGTH TESTS		Р
T.1	General requirements	See the following details.	Р
T.2	Steady force test, 10 N	(See appended table T.2)	Р
T.3	Steady force test, 30 N	(See appended table T.3)	Р
T.4	Steady force test, 100 N	(See appended table T.4)	N/A
T.5	Steady force test, 250 N	(See appended table T.5)	Р
T.6	Enclosure impact test	(See appended table T.6)	Р
	Fall test		Р
	Swing test		Р
T.7	Drop test	(See appended table T.7)	N/A
T.8	Stress relief test	(See appended table T.8)	Р
T.9	Impact Test (glass)		N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A
	Impact energy (J)		_
	Height (m)		
T.10	Glass fragmentation test	(See sub-clause 4.4.4.9)	N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm)		_
U	MECHANICAL STRENGTH OF CATHODE RAY TAGAINST THE EFECTS OF IMPLOSION	TUBES (CRT) AND PROTECTION	N/A
U.1	General requirements		N/A
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A
U.3	Protective Screen		N/A
V	DETERMINATION OF ACCESSIBLE PARTS (FIN	IGERS, PROBES AND WEDGES)	Р
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V.1

V.2

Accessible parts of equipment

Accessible part criterion

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Clause	Requirement + Test	Result - Remark	Verdict

4.1.2	TABLE:	List of critical com	ponents			Р
Object / part	No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
LCD Panel		TPV	TPM270W**- ******** (*can be 0-9, A-Z, dot or blank for marketing purpose).	27 inch TFT LCD (power consumption: 21.32W; LED array voltage: 51V)	IEC 60950-1	Tested in equipment
Plastic enclo	osure	LOTTE ADVANCED MATERIALS CO LTD (SAMSUNG SDI) (Cheil)	SD-0150(+), VH-0810(+), VE-0812(+), NH- 1000T(+)(&), GC- 0700(+++)(RR 28), GC- 0750(+)(RR70), GC- 1017(+)(RR30), VE-1890(+), BF-0675(+), BF-0675(+), NH-1017T, NH- 1017SG(+), BF-0677(+), HS-7000(+), HS-7000(+), HG-0760(+), NE-1030(+), LX-0951(+), LX-0957(+), TN-1100(+), TN-1100(+)	HB or better, min. 2.0mm thickness	UL 94	UL E115797 and tested with appliance
(Alternative)		GRAND PACIFIC PETROCHEMICAL CORP	D-150, D-1000, D-1000A	HB or better, min. 2.0mm thickness	UL 94	UL E88637 and tested with appliance

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(Alternative)	CHI MEI CORPORATION	PA-757(+), PH-88, PA-756S	HB or better, min. 2.0mm thickness	UL 94	UL E56070 and tested with appliance
(Alternative)	ALBIS PLASTIC GMBH	GP-35, GP-22, 495F	HB or better, min. 2.0mm thickness	UL 94	UL E80168 and tested with appliance
(Alternative)	COVESTRO DEUTSCHLAND AG [PC RESINS] (Bayer)	FR3000 series, FR3005 series	HB or better, min. 2.0mm thickness	UL 94	UL E41613 and tested with appliance
(Alternative)	LG CHEM LTD	HF350(#), HF380(m), HF380(#), HF380(#), HF-380(m), HF-380(m), HF-380NS, HF380X, AF312T1, AF342T1, LUPOY GN-5001TF(#), GN-5001RFD, LUPOY GN-5008HF(#), LUPOY GP-5008BF(#), SE750(#), XG568(#), XG569(#), GP-1000F(#), SE750(#), LUPOY GN-5001RF(T)	HB or better, min. 2.0mm thickness	UL 94	UL E67171 and tested with appliance

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Clause	Requirement + Test	Result - Remark	Verdict

(Alternative)	CINGDAO HAIER	4418, 5197, FRABS-518, HIPS-5197, HF-606, HF-626, FRABS-518, GAR-011C, JH960 6(M), FRHIPS-960, RS-300, RS-400, GAR-011, GAR- 011(L65), GAR- 011(L65), GAR- 011(HG6), CK-100, CK-900, CK-55111, JH960 6(M), FRHIPS-960, HIPS-4418, HIPS-3399, HIPS-CM(ee), HIPS-510 (o), HIPS-510 (o), HIPS-550, CK-61(M) (##), RS- (hh)0, HP-126, ABS-660, ABS-122, GAR-322,	HB or better, min. 2.0mm thickness	UL 94	UL E171666 and tested with appliance
(Alternative)	QINGDAO HAIER NEW MATERIAL R & D CO LTD	HRABS-RS, HRABS-HG, CR-3002	HB or better, min. 2.0mm thickness	UL 94	UL E230779 and tested with appliance
(Alternative)	DONGGUAN HINGLONG PLASTIC TECHNOLOGY CO LTD	HL-ABS- PCR85, HL- ABS-PCR65, HL-ABS- PCR35	HB or better, min. 2.0mm thickness	UL 94	UL E345434 and tested with appliance

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Clause	Requirement + Test	Result - Remark	Verdict	

(Alternative)	ORINKO (HEFEI) ADVANCED PLASTIC CO LTD	ABS-3070H, HIPS-2000	HB or better, min. 2.0mm thickness	UL 94	UL E328304 and tested with appliance
(Alternative)	WISTRON ADVANCED MATERIALS (KUNSHAN) CO LTD	GA(M)(b)(c)	HB or better, min. 2.0mm thickness	UL 94	UL E359575 and tested with appliance
(Alternative)	UNIC TECHNOLOGY CORP	UR- 3006+(RXX), UR-200+	HB or better, min. 2.0mm thickness	UL 94	UL E135175 and tested with appliance
(Alternative)	GUO HENG (DONGGUAN)	YOUHO(####) (Y)	HB or better, min. 2.0mm thickness	UL 94	UL E471190 and tested with appliance
(Alternative)	HUIZHOU WOTE	2100	HB or better, min. 2.0mm thickness	UL 94	UL E310240 and tested with appliance
(Alternative)	TEIJIN LIMITED RESIN AND PLASTIC	TN-7500(c), TN-7500F(#), MN-3600V(#), MN-3600H(#)	HB or better, min. 2.0mm thickness	UL 94	UL E98529 and tested with appliance
(Alternative)	INEOS STYROLUTION GROUP GMBH	495F GR2, 495F KG2, 495F GR21, 495F KG21, PC2065, GP- 22	HB or better, min. 2.0mm thickness	UL 94	UL E108538 and tested with appliance
(Alternative)	TRINSEO EUROPE GMBH (STYRON)	STYRON A- TECH 1200	HB or better, min. 2.0mm thickness	UL 94	UL E162447 and tested with appliance
(Alternative)	TOTAL PETROCHEMICA LS SOUTH EAST ASIA PTE LTD	3441; 260-XX	HB or better, min. 2.0mm thickness	UL 94	UL E314268 and tested with appliance
(Alternative)	DOOSAN CORPORATION ELECTRO- MATERIALS BG	DS-1107A; DS-1202G; DS-7106	HB or better, min. 2.0mm thickness	UL 94	UL E103670 and tested with appliance

Clause	Requirement + Test	Result - Remark	Verdict

(Alternative)	SABIC JAPAN L L C	C6600(GG)(X) (VS), C6600E (VS)(X)	HB or better, min. 2.0mm thickness	UL 94	UL E207780 and tested with appliance
(Alternative)	PONTEX	AFE5000N, AFE5100N, 9004BK	HB or better, min. 2.0mm thickness	UL 94	UL E205938 and tested with appliance
(Alternative)	CHI LIN	GA-1(aaa), GA-1535	HB or better, min. 2.0mm thickness	UL 94	UL E177071 and tested with appliance
Mylar sheet	SUZHOU OMAY OPTICAL MATERIALS CO LTD	SE42B, SE42B-F	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	SICHUAN LONGHUA FILM CO LTD	PC-770F, PC-770F-A, PC-770	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR700, DFR700F	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX FRPC- 1860B, KLX FRPC- 1870B	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX FRPC- 870B	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR117ECOC , DFR117ECOB	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR117ECO	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	JINGMEN GORUN TECHNOLOGY CO LTD	HF70	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL

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Clause	Requirement + Test	Result - Remark	Verdict

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(Alternative)	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR3A(d)	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX PP BK-10	min. 0.4mm thickness, min. V-1, 105°C	UL 94	UL
(Alternative)	KUNSHAN DOBESTY OPTOELECTRO NIC MATERIALS CO LTD	PC9842B	min. 0.4mm thickness, min. V-1, 80°C	UL 94	UL
(Alternative)	SHENZHEN TEESUN TECHNOLOGY CO LTD	FR370, FR370F, FE383	min. 0.4mm thickness, min. V-1, 80°C	UL 94	UL
Switching mode	power supply board: 7	15GB004 by TP	V		
Power switch (SW901)	Rong Feng Industrial Co., Ltd.	RF-1003	VDE: 10(4)A, 250Vac UL: 10A, 250Vac	IEC/EN 61058-1, UL 1054	VDE, UL
Alt.)	Solteam Electronics Co Ltd	MR-21 series	ENEC: 6A, 250Vac UL:10A, 125/250Vac	IEC/EN 61058-1, UL 1054	ENEC, UL
Alt.)	Solteam Electronics Co Ltd	MR-21S	ENEC: 6A, 250Vac UL:10A, 125/250Vac	IEC/EN 61058-1, UL 1054	ENEC, UL
Alt.)	Solteam Electronics Co Ltd	OR-L series, OR-P series	ENEC: 6A, 250Vac UL: 10A/125Vac, 6A/250Vac	IEC/EN 61058-1, UL 1054	ENEC, UL
Alt.)	Solteam Electronics Co Ltd	MR-22 series	ENEC: 12(4)A, 250Vac UL: 12A,125/250Vac	IEC/EN 61058-1, UL 1054	ENEC, UL
Alt.)	Chily	3024 series	VDE:16(4)A, 250Vac UL: 15A,125/250Vac	IEC/EN 61058-1, UL 1054	VDE, UL
Alt.)	Ningbo Yinzhou Lihe Switch Factory	RL3-4	VDE: 10(4), 250Vac UL: 16A, 125Vac	IEC/EN 61058-1, UL 1054	VDE, UL
Alt.)	Hongchang	RS and RT series	10A,125Vac, 6A, 250Vac.	IEC/EN 61058-1	ENEC/FI UL

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Clause	Requirement + Test	Result - Remark	Verdict		

Alt.)	Zhangjiagang Huajie	PS8-338	8A, 250Vac, 12(4), 250Vac.	IEC/EN 61058-1	ENEC/FI UL
AC-Inlet (CN901)	Solteam	ST-01	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)	Hua Jie	SA-4S, SA-4S 9	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)	Rong Feng	SS-120, SS-7B	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)	DELIKANG/ Douling	CDJ-3, CDJ-3-1	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)	Inalways	0707-1, 0711-2, 0714	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)	TECX	TU-301-A, TU-301-AP, TU-301-S, TU-301-SP	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)	Yueqing Hongchang	DB-14 DB-14-14-R, Series DB-14	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Fuse (F9901 in primary)	Littelfuse, Inc. Wickmann	382-series, 392	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Alt.)	Littelfuse Phils. Inc.	TE5 400 series	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE
Alt.)	Conquer	MET series MST series PTU	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Alt.)	Cooper Bussmann	SR-5, SS-5	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Alt.)	Ever Island Electric Co., Ltd. & Walter Electric	2000, 2010 series	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Alt.)	Littelfuse Phils. Inc.	877	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Fuse (F801, F9903 and F9904 in secondary for L.P.S.)	Littelfuse, Inc. Wickmann	382-series, 392	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL

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Clause	Requirement + Test	Result - Remark	Verdict		

Alt.)	Littelfuse Phils. Inc.	TE5 400 series	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE
Alt.)	Conquer	MET series MST series PTU	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Alt.)	Cooper Bussmann	SR-5, SS-5	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Alt.)	Ever Island Electric Co., Ltd. & Walter Electric	2000, 2010 series	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Alt.)	Littelfuse Phils. Inc.	877	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Y- Capacitor (C9903, C9904, C9905, C9909, C9910) Y1 or Y2 type (optional)	Walsin	AC, AH	Max. 680pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
Alt.)	Wansheng	CT7	Max. 680pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
Alt.)	TDK	CS, CD	Max. 680pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
Alt.)	Murata	KH, KX	Max. 680pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
Alt.)	Matsushita	NS-A, NS-B	Max. 680pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
Alt.)	JYA-NAY	JY, JN	Max. 680pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
Alt.)	Hongming	F	Max. 680pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
Alt.)	Yinan Don's	CT81	Max. 680pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
Alt.)	SUCCESS	SB, SE	Max. 680pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
Y- Capacitor (C9913) Y1 type (optional)	Walsin	АН	Max. 1000pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
Alt.)	TDK	CD	Max. 1000pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
Alt.)	Murata	KX	Max. 1000pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL

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Clause	Requirement + Test	Result - Remark	Verdict	

Alt.)	Kunshan Wansheng	CT7	Max. 1000pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
Alt.)	YINAN DON'S ELECTRONI C COMPONENT CO.,LTD	CT81	Max. 1000pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
Alt.)	SUCCESS	SE	Max. 1000pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
Alt.)	SUCCESS	SB	Max. 1000pF, 250Vac, 105°C	IEC/EN 60384- 14, UL 60384-14	VDE, UL
X-Capacitor (X1 or X2 type) (C9901, C9902) (optional)	Ultra Tech Xiphi	HQX	Max. 0.47μF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Europtronic	MPX	Max. 0.47µF, Min. 250Vac, 105°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Europtronic	MPX2	Max. 0.47µF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Liow Gu	GS-L	Max. 0.47µF, Min. 250Vac, 100°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Arcotronics (KEMET)	R.46	Max. 0.47µF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	ENEC, UL
Alt.)	TDK	B3292	Max. 0.47µF, Min. 250Vac, 100°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Nanjing Tengen Rongguangda	MKP	Max. 0.47µF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Faratronic	MKP62	Max. 0.47μF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Farad	PXK	Max. 0.47µF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Bleeder Resistor (R9901, R9902)	Guangdong Fenghua Advanced Technology Holding Co., Ltd.	RVS- 06#xxxFT series	Max.510kΩ, min.1/4W	IEC 62368-1	CB issued by NEMKO (CB cert No. NO99692)
Alt.)	Guangdong Fenghua Advanced Technology Holding Co., Ltd.	RS-06#xxxFT series	Max.510kΩ, min.1/4W	IEC 62368-1	CB issued by NEMKO (CB report No. 337017)
Alt.)	Yageo Corporation	RV1206XX- 0782K1L	Max.510kΩ, min.1/4W	IEC 62368-1	CB issued by UL(CB cert No. DK- 64853-UL)

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Alt.)	Yageo Corporation	RV1206 series	Max.510kΩ, min.1/4W	IEC 62368-1	CB issued by UL(CB report No. E491387- 4787887815- 1 Original)
Alt.)	Tzai Yuan Enterprise Co., Ltd.	HSMD*******, SMD********	Max.510kΩ, min.1/4W	IEC 62368-1	CB issued by UL(CB cert No. DK- 29431-A1- M1-UL)
Discharge IC (U9901)	Power Integrations	CAP200DG	825V Resistance: 780kohm Max. total X- capacitance: 1uF	IEC 62368-1	CB issued by Nemko (CB cert No. NO81546 and NO81546/M1
Photo Coupler (U9802, U9106)	Sharp	PC123	Di=0.7mm, ext. cr ≥8.0mm, min.3000Vac, 110°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Nemko, Fimko
Alt.)	Vishay Semiconductor	TCET1103	Di=0.6mm, ext. cr=8.4mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Fimko
Alt.)	Everlight Electronics Co., Ltd.	EL817, EL817M	Di=0.5mm, ext. cr=7.7mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Nemko, Fimko
Alt.)	Everlight Electronics Co., Ltd.	EL1013	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko
Alt.)	Lite-on	LTV-817	Di=0.4mm, ext. cr ≥7.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL
Alt.)	Renesas	PS2561-1 PS2561L-1 PS2561L1-1 PS2561L2-1 PS2561DL1-1	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Nemko, Fimko
Alt.)	TOSHIBA	TLP781F TLP781	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Fimko

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Alt.)	TOSHIBA	TLP421F	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Fimko
PFC choke (L9801) (Optional)	НА	373G0174355 H	130°C		
Alt.)	ASET	373G0174355 X	130°C		
Line Choke (L9901, L9902) (Optional)	LIANFENG DONGJJIN	373G0174405 J	130°C		
Alt.)	PHOENIX	373G0174405 P	130°C		
Alt.)	ASET	373G0174405 X	130°C		
Alt.)	НА	373G0174405 H	130°C		
Transformer (T9102) (Alt.)	CHANNELON	380GL32P616 H	Class B	IEC/EN 60950-1	Tested with appliance
- Bobbin	CHANG CHUN	T200HF	V-0, Phenolic, 150°C	UL 94	UL
- Triple insulation wire	COSMOLINK	TIW-M	Max.130°C	IEC/EN 60950-1, VDE0805 Teil1, UL 2353	UL, VDE
- Teflon tube	GREAT HOLDING	TFL	200°C	UL 224	UL
- Insulation tape	Jing jiang YaHua	СТ	130°C	UL 510	UL
Transformer (T9102) (Alt.)	LIANFENG DONGJIN	380GL32P616 J	Class B	IEC/EN 60950-1	Tested with appliance
- Bobbin	SUMITOMO	PM-9750	V-0, Phenolic, 150°C	UL 94	UL
- Triple insulation wire	COSMOLINK	TIW-M	Max.130°C	IEC/EN 60950-1, VDE0805 Teil1, UL 2353	UL, VDE
- Teflon tube	GREAT HOLDING	TFL	200°C	UL 224	UL
- Insulation tape	Jing jiang YaHua	СТ	130°C	UL 510	UL
Transformer (T9102) (Alt.)	ASET	380GL32P616 X	Class B	IEC/EN 60950-1	Tested with appliance
- Bobbin	CHANG CHUN	T200NA	V-0, Phenolic, 150°C	UL 94	UL

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- Triple insulation wire	COSMOLINK	TIW-M	Max.130°C	IEC/EN 60950-1, VDE0805 Teil1, UL 2353	UL, VDE
- Teflon tube	GREAT HOLDING	TFL	200°C	UL 224	UL
- Insulation tape	Jing jiang YaHua SYMBIO INC	CT PF*(d)(g)	130°C	UL 510	UL
Transformer (T9102) (Alt.)	PHOENIX	380GL32P616 P	Class B	IEC/EN 60950-1	Tested with appliance
- Bobbin	SUMITOMO	PM-9750	V-0, Phenolic, 150°C	UL 94	UL
- Triple insulation wire	YUSHENG	TIW-B	Max.130°C	IEC/EN 60950-1, VDE0805 Teil1, UL 2353	UL, VDE
- Teflon tube	GREAT HOLDING	TFL	200°C	UL 224	UL
- Insulation tape	Jing jiang YaHua SYMBIO INC	СТ	130°C	UL 510	UL
Switching mode po	ower supply board: 7	15G7300 by TP	/	•	
AC-Inlet (CN901)	Solteam	ST-01	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)	Zhang Jia Gang- Hua Jie	SA-4S, SA-4S-1, SA-4D	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)	Rong Feng	SS-120, SS- 7B	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)	Inalways	0707-1, 0711- 2, 0714	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)	DELIKANG	CDJ-3, CDJ-3-1	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)	TECX	TU-301 series	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)	Yueqing Hongchang	DB-14	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Fuse (F901)	Littelfuse, Inc. Wickmann	382-series, 392	T3.15AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Alt.)	Littelfuse, Inc.	TE5 400	T3.15AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3	VDE
Alt.)	Conquer	MET, MST, PTU	T3.15AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL

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Clause	Requirement + Test	Result - Remark	Verdict		

Alt.)	Cooper Bussmann	SR-5, SS-5	T3.15AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Alt.)	Ever Island Electric Co., Ltd. & Walter Electric	2000, 2010 series	T3.15AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Y- Capacitor (C902, C903) Y1 or Y2 type (optional)	Walsin	AC, AH	Max. 680pF, 250Vac, 125°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	TDK	CS, CD	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Murata	KH, KX	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	JYA-NAY	JY, JN	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Hongming	F	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Wansheng	CT7	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Haohua	CT7	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Samwha	SD	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Matsushita	NS-A, NS-B	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Success	SB, SE	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Yinan Don's	CT81	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Y- Capacitor (C913) Y1 type (optional)	Walsin	AH	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	TDK	CD	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Murata	кх	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	JYA-NAY	JN	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Hongming	F	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Wansheng	CT7	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL

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Clause	Requirement + Test	Result - Remark	Verdict	

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Alt.)	Haohua	CT7	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Samwha	SD	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Matsushita	NS-A	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Success	SB, SE	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Yinan Don's	CT81	Max. 1000pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
X-Capacitor (X1 or X2 type) (C901) (optional)	Ultra Tech Xiphi	HQX	Max. 0.22μF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Europtronic	MPX	Max. 0.22µF, Min. 250Vac, 105°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Europtronic	MPX2	Max. 0.22µF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Liow Gu	GS-L	Max. 0.22μF, Min. 250Vac, 100°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Arcotronics (KEMET)	R.46	Max. 0.22μF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	ENEC, UL
Alt.)	TDK	B3292	Max. 0.22μF, Min. 250Vac, 100°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Nanjing Tengen Rongguangda	MKP	Max. 0.22μF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Faratronic	MKP62	Max. 0.22μF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Farad	PXK	Max. 0.22μF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Bleeder Resistor (R907, R908, R909)	Guangdong Fenghua Advanced Technology Holding Co., Ltd.	RVS- 06#xxxFT series	Max. 1MΩ, min. 1/4W	IEC 62368-1	CB issued by NEMKO (CB cert No. NO99692)
Alt.)	Guangdong Fenghua Advanced Technology Holding Co., Ltd.	RS-06#xxxFT series	Max. 1MΩ, min. 1/4W	IEC 62368-1	CB issued by NEMKO (CB report No. 337017)
Alt.)	Yageo Corporation	RV1206XX- 0782K1L	Max. 1MΩ, min. 1/4W	IEC 62368-1	CB issued by UL(CB cert No. DK- 64853-UL)

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Alt.)	Yageo Corporation	RV1206 series	Max. 1MΩ, min. 1/4W	IEC 62368-1	CB issued by UL(CB report No. E491387- 4787887815- 1 Original)
Alt.)	Tzai Yuan Enterprise Co., Ltd.	HSMD*******, SMD********	Max. 1MΩ, min. 1/4W	IEC 62368-1	CB issued by UL(CB cert No. DK- 29431-A1- M1-UL)
Photo Coupler (U902)	Sharp	PC123	Di=0.7mm, ext. cr ≥8.0mm, min.3000Vac, 110°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Nemko, Fimko
Alt.)	Vishay Semiconductor	TCET1103	Di=0.6mm, ext. cr=8.4mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Fimko
Alt.)	Everlight Electronics Co., Ltd.	EL817, EL817M	Di=0.5mm, ext. cr=7.7mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Nemko, Fimko
Alt.)	Everlight Electronics Co., Ltd.	EL1013	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko
Alt.)	Lite-on	LTV-817	Di=0.4mm, ext. cr ≥7.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL
Alt.)	Renesas	PS2561-1 PS2561L-1 PS2561L1-1 PS2561L2-1 PS2561DL1-1	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Nemko, Fimko
Alt.)	TOSHIBA	TLP781F TLP781	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Fimko
(Alt.)	TOSHIBA	TLP421F	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Fimko
Line Choke (L901) (Optional)	ASET	73G-174-192- X	105°C		

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Clause	Requirement + Test	Result - Remark	Verdict		

Alt.)	DADON	73G-174-192- H	105°C		
Alt.)	TAICHANG	73G-174-192- S	105°C		
Alt.)	FRONTIER	73G-174-192- F	105°C		
Alt.)	LI TAI	73G-174-192-L	105°C		
Alt.)	YUVA	73G-174-192- N	105°C		
Alt.)	DARFON	73G-174-192- DN	105°C		
Tra (Alt	nsformer (T902) .)	Channelon	380GL19P535 H	Class A	Applicable parts of IEC 60950-1 and according to IEC 60085	Accepted by TÜV Rheinland
-	Bobbin	Sumitomo	PM-9820	V-0, Phenolic, 150°C	UL 94	UL
-	Triple insulation wire	Cosmolink	TIW-M	130°C	IEC/EN 60950-1, VDE0805 Teil1, UL 2353	UL, VDE
-	Insulation tape	SYMBIO INC	No.35660Y*(%	130°C	UL510	UL
	(alternative)	JINGJIANG YAHUA	No.CT(c)	130°C	UL510	UL
Tra (Alt	nsformer (T902) .)	YUVA	380GL19P535 N	Class A	Applicable parts of IEC 60950-1 and according to IEC 60085	Accepted by TÜV Rheinland
1	Bobbin	Sumitomo	PM-9820	V-0, Phenolic, 150°C	UL 94	UL
-	Triple insulation wire	Cosmolink	TIW-M	130°C	IEC/EN 60950-1, VDE0805 Teil1, UL 2353	UL, VDE
-	Insulation tape	SYMBIO INC	No.35660Y*(%	130°C	UL510	UL
	(alternative)	JINGJIANG YAHUA	No.CT(c)	130°C	UL510	UL
Tra (Alt	nsformer (T902) .)	TPV	S80GL19P535 V	Class A	Applicable parts of IEC 60950-1 and according to IEC 60085	Accepted by TÜV Rheinland
-	Bobbin	Sumitomo	PM-9820	V-0, Phenolic, 150°C	UL 94	UL

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- Triple insul wire	lation	Furukawa	TEX-E	130°C	IEC/EN 60950-1, VDE0805 Teil1, UL 2353	UL, VDE
- Insulation t	ape	SYMBIO INC	No.35660Y*(%	130°C	UL510	UL
(alternative)	JINGJIANG YAHUA	No.CT(c)	130°C	UL510	UL
Transformer (T (Alt.)	902)	LFDJ	380GL19P535 J	Class A	Applicable parts of IEC 60950-1 and according to IEC 60085	Accepted by TÜV Rheinland
- Bobbin		Sumitomo	PM-9820	V-0, Phenolic, 150°C	UL 94	UL
- Triple insul wire	lation	Cosmolink	TIW-M	130°C	IEC/EN 60950-1, VDE0805 Teil1, UL 2353	UL, VDE
- Insulation t	ape	JINGJIANG YAHUA	No.CT(c)	130°C	UL510	UL
Transformer (T (Alt.)	⁻ 902)	PHOENIX	380GL19P535 P	Class A	Applicable parts of IEC 60950-1 and according to IEC 60085	Accepted by TÜV Rheinland
- Bobbin		Sumitomo	PM-9820	V-0, Phenolic, 150°C	UL 94	UL
- Triple insul wire	lation	SUZHOU YUSHENG ELECTRONIC CO LTD	TIW-B+@	130°C	IEC/EN 60950-1, VDE0805 Teil1, UL 2353	UL, VDE
- Insulation t	ape	JINGJIANG YAHUA	No.CT*(c)(g)	130°C	UL510	UL
Switching mod	de pov	wer supply board: 7	15G7610 by TP\	1		•
AC-Inlet (CN99	901)	Solteam	ST-01	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)		Zhang Jia Gang- Hua Jie	SA-4S, SA-4S-1, SA-4D	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)		Rong Feng	SS-120, SS- 7B	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)		Inalways	0707-1, 0711- 2, 0714	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)		DELIKANG	CDJ-3, CDJ-3-1	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL

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Alt.)	TECX	TU-301 series	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Alt.)	Yueqing Hongchang	DB-14	10A, 250Vac	IEC/ EN 60320-1 UL60320-1	VDE, UL
Primary Switch (SW901) (Optional)	Rong Feng Industrial Co., Ltd.	RF-1003	VDE: 10(4)A, 250Vac UL: 10A, 250Vac	IEC/EN 61058-1, UL 1054	VDE, UL
Alt.)	Solteam Electronics Co Ltd	MR-21 series	ENEC: 6A, 250Vac UL:10A, 125/250Vac	IEC/EN 61058-1, UL 1054	ENEC, UL
Alt.)	Solteam Electronics Co Ltd	MR-21S	ENEC: 6A, 250Vac UL:10A, 125/250Vac	IEC/EN 61058-1, UL 1054	ENEC, UL
Alt.)	Solteam Electronics Co Ltd	OR-L series, OR-P series	ENEC: 6A, 250Vac UL: 10A/125Vac, 6A/250Vac	IEC/EN 61058-1, UL 1054	ENEC, UL
Alt.)	Solteam Electronics Co Ltd	MR-22 series	ENEC: 12(4)A, 250Vac UL: 12A,125/250Vac	IEC/EN 61058-1, UL 1054	ENEC, UL
Alt.)	Chily	3024 series	VDE:16(4)A, 250Vac UL: 15A,125/250Vac	IEC/EN 61058-1, UL 1054	VDE, UL
Alt.)	Ningbo Yinzhou Lihe Switch Factory	RL3-4	VDE: 10(4), 250Vac UL: 16A, 125Vac	IEC/EN 61058-1, UL 1054	VDE, UL
Alt.)	Hongchang	RS and RT series	10A,125Vac, 6A, 250Vac.	IEC/EN 61058-1	ENEC/FI UL
Alt.)	Zhangjiagang Huajie	PS8-338	8A, 250Vac, 12(4), 250Vac.	IEC/EN 61058-1	ENEC/FI UL
Fuse (F9901 in primary)	Littelfuse, Inc. Wickmann	382-series, 392	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Alt.)	Littelfuse, Inc.	TE5 400	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3	VDE
Alt.)	Conquer	MET, MST, PTU	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Alt.)	Cooper Bussmann	SR-5, SS-5	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL

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(Alt.)	Ever Island	2000,	TEAL 250\/00	IEC/ EN 60127-1	VDE, UL
(Alt.)	Electric Co., Ltd. & Walter Electric	2010 series	T5AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Fuse (F901 in secondary)	Littelfuse, Inc. Wickmann	382-series, 392	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Alt.)	Littelfuse, Inc.	TE5 400	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3	VDE
Alt.)	Conquer	MET, MST, PTU	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Alt.)	Cooper Bussmann	SR-5, SS-5	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Alt.)	Ever Island Electric Co., Ltd. & Walter Electric	2000, 2010 series	T4AL, 250Vac	IEC/ EN 60127-1 IEC/ EN 60127-3 UL 248-1	VDE, UL
Y- Capacitor (C9903, C9904) Y1 or Y2 type (optional)	Walsin	AC, AH	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	TDK	CS, CD	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Murata	KH, KX	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	JYA-NAY	JY, JN	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Hongming	F	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Wansheng	CT7	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Haohua	CT7	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Samwha	SD	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Matsushita	NS-A, NS-B	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Success	SB, SE	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Yinan Don's	CT81	Max. 680pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL

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Y- Capacitor (C9902) Y1 type (optional)	Walsin	АН	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	TDK	CD	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Murata	KX	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	JYA-NAY	JN	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Hongming	F	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Wansheng	CT7	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Haohua	CT7	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Samwha	SD	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Matsushita	NS-A	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Success	SB, SE	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Yinan Don's	CT81	Max. 2200pF, 250Vac, 85°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
X-Capacitor (X1 or X2 type) (C9901) (optional)	Ultra Tech Xiphi	HQX	Max. 0.33μF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Europtronic	MPX	Max. 0.33μF, Min. 250Vac, 105°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Europtronic	MPX2	Max. 0.33μF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Liow Gu	GS-L	Max. 0.33μF, Min. 250Vac, 100°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Arcotronics (KEMET)	R.46	Max. 0.33μF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	ENEC, UL
Alt.)	TDK	B3292	Max. 0.33μF, Min. 250Vac, 100°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Nanjing Tengen Rongguangda	MKP	Max. 0.33μF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Alt.)	Faratronic	MKP62	Max. 0.33µF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL

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Alt.)	Farad	PXK	Max. 0.33µF, Min. 250Vac, 110°C	IEC/EN 60384-14 UL 60384-14	VDE, UL
Bleeder Resistor (R9901, R9902, R9903)	Guangdong Fenghua Advanced Technology Holding Co., Ltd.	RVS- 06#xxxFT series	Max. 1MΩ, min. 1/4W	IEC 62368-1	CB issued by NEMKO (CB cert No. NO99692)
Alt.)	Guangdong Fenghua Advanced Technology Holding Co., Ltd.	RS-06#xxxFT series	Max. 1MΩ, min. 1/4W	IEC 62368-1	CB issued by NEMKO (CB report No. 337017)
Alt.)	Yageo Corporation	RV1206XX- 0782K1L	Max. 1MΩ, min. 1/4W	IEC 62368-1	CB issued by UL(CB cert No. DK- 64853-UL)
Alt.)	Yageo Corporation	RV1206 series	Max. 1MΩ, min. 1/4W	IEC 62368-1	CB issued by UL(CB report No. E491387- 4787887815- 1 Original)
Alt.)	Tzai Yuan Enterprise Co., Ltd.	HSMD********, SMD********	Max. 1MΩ, min. 1/4W	IEC 62368-1	CB issued by UL(CB cert No. DK- 29431-A1- M1-UL)
Photo Coupler (U902)	Sharp	PC123	Di=0.7mm, ext. cr ≥8.0mm, min.3000Vac, 110°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Nemko, Fimko
Alt.)	Vishay Semiconductor	TCET1103	Di=0.6mm, ext. cr=8.4mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Fimko
Alt.)	Everlight Electronics Co., Ltd.	EL817, EL817M	Di=0.5mm, ext. cr=7.7mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Nemko, Fimko
Alt.)	Everlight Electronics Co., Ltd.	EL1013	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko
Alt.)	Lite-on	LTV-817	Di=0.4mm, ext. cr ≥7.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL

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Alt.)	Renesas	PS2561-1 PS2561L-1 PS2561L1-1 PS2561L2-1 PS2561DL1-1	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Nemko, Fimko
Alt.)	TOSHIBA	TLP781F TLP781	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Fimko
Alt.)	TOSHIBA	TLP421F	Di=0.4mm, ext. cr=8.0mm, min.3000Vac, 100°C	DIN EN 60747-5- 5, UL1577	VDE, UL, Semko, Fimko
Line Choke (L9902) (Optional)	JIANGSU CHANNELON	373G0174563 H	105°C		
Alt.)	LIANFENG DONGJJIN	373G0174563 J	105°C		
Alt.)	ASET	373G0174563 X	105°C		
Alt.)	LIANZHEN ELECTRONICS	373G0174563 Z	105°C		
Transformer (T901)	PHOENIX	380GL32P547 P	Class B	Applicable parts of IEC 60950-1 and according to IEC 60085	Accepted by TÜV Rheinland
- Bobbin	SUMITOMO BAKELITE CO.,LTD	PM-9820	Phenolic, V-0, 150°	UL 94	UL
- Triple insulated wire	SUZHOU YUSHENG ELECTRONIC CO LTD	TIW-B	130°C, Class B	IEC 60950-1 UL 60950-1	VDE, UL
- Insulation tape	JINGJIANG YAHUA	No.CT(c)	130°C	UL510	UL
Transformer (T901) (Alt.)	LIANFENG DONGJIN	380GL32P547 J	Class B	Applicable parts of IEC 60950-1 and according to IEC 60085	Accepted by TÜV Rheinland
- Bobbin	SUMITOMO BAKELITE CO.,LTD	PM-9820	Phenolic, V-0, 150°	UL 94	UL
- Triple insulated wire	SUZHOU YUSHENG ELECTRONIC CO LTD	TIW-B	130°C, Class B	IEC 60950-1 UL 60950-1	VDE, UL

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Clause	Requirement + Test	Result - Remark	Verdict

- Insulation tape	JINGJIANG YAHUA	No.CT(c)	130°C	UL510	UL
For functional comp	ponents:				
Internal Speaker (two sets) (optional)	Interchangeable	Interchangeabl e	Each rated 4Ω, 2.5W		Tested in equipment
On power board 715	GB004				
P.C.B	Interchangeable	Interchangeabl e	V-1 or better Min. 130°C.	UL 796	UL
Thermistor (TH9901)	Interchangeable	Interchangeabl e	Min. 2.5Ω, Min. 2A, 25°C		Tested in equipment
Bridging Diode (BD9901)	Interchangeable	Interchangeabl e	Min. 2A, Max 800V.		Tested in equipment
Ripple Capacitor (C9801, C9920)	Interchangeable	Interchangeabl e	30-150uF, min. 450 V, min .105°C		Tested in equipment
Transistor (Q9801, Q9101, Q9102)	Interchangeable	Interchangeabl e	Min. 5A, 500V min.		Tested in equipment
On power board 715	G7300	•			
P.C.B	Interchangeable	Interchangeabl e	V-1 or better Min. 105°C.	UL 796	UL
Thermistor (NR901)	Interchangeable	Interchangeabl e	Min. 5Ω at 25°C, min. 2A		Tested in equipment
Current sensor resistor (R931)	Interchangeable	Interchangeabl e	Min. 0.825Ω, 2W		Tested in equipment
Bridging Diode (BD901)	Interchangeable	Interchangeabl e	Min.500V, min.2A		Tested in equipment
Ripple Capacitor (C907)	Interchangeable	Interchangeabl e	50-150μF, max. 450V, 105°C		Tested in equipment
Transistor (Q901)	Interchangeable	Interchangeabl e	Min.500V, min.2A		Tested in equipment
On power board 715	G7610	•			
P.C.B	Interchangeable	Interchangeabl e	V-1 or better Min. 105°C.	UL 796	UL
Thermistor (NR9901)	Interchangeable	Interchangeabl e	Min. 5Ω at 25°C, min. 2A		Tested in equipment
Current sensor resistor (R916)	Interchangeable	Interchangeabl e	Min. 0.33Ω, 2W		Tested in equipment
Bridging Diode (BD9901)	Interchangeable	Interchangeabl e	Min.500V, min.2A		Tested in equipment
Ripple Capacitor (C901, C902)	Interchangeable	Interchangeabl e	47-150μF, max. 450V, 105°C		Tested in equipment

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Clause	Requirement + Test	Result - Remark	Verdict				

Transistor (Q901)	Interchangeable	Interchangeabl	Min.500V, min.2A	 Tested in
		е		equipment

Supplementary information:

- 1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.
- ²⁾ Description line content is optional. Main line description needs to clearly detail the component used for testing
- ³⁾ All sources of transformer were checked with same construction.

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Clause	Result - Remark	Verdict				

4.8.4, 4.8.5	TABLE: Li	thium coin/button cell batter	ies mechanical tests	N/A	
(The follow	ing mechanica	Il tests are conducted in the sec	juence noted.)		
4.8.4.2	TABLE: St	ress Relief test	_		
F	Part	Material	Oven Temperature (°C)	Comments	
4.8.4.3	TABLE: Ba	ttery replacement test		_	
Battery par	rt no		.:	_	
Battery Ins	tallation/witho	Irawal	Battery Installation/Removal Cycle	Comments	
			1		
			2		
			3		
			4		
			5		
			6		
			8		
			9		
			10		
1.8.4.4	TABLE: Dro	op test		_	
mpact Area	a	Drop Distance	Drop No.	Observations	
			1		
			2		
			3		
4.8.4.5	TABLE: Im	pact		_	
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments	
4.8.4.6	TABLE: Cr	ush test		_	
Test position		Surface tested	Crushing Force (N)	Duration force applied (s)	

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	Clause	Requirement + Test	Result - Remark	Verdict	

4.8.5	TABLE: Lithium coin/button cell batteries mechanical test result				
Test position		Surface tested	Force (N)	Duration force applied (s)	
Supplementary information:					

5.2	Table: C	lassification of	electrical energy s	ources			Р
5.2.2.2	5.2.2.2 – Steady State Voltage and Current conditions						
	Supply Voltage		Test conditions	Parameters			
No.				U (Vrms or Vpk)	I (Apk or Arms)	Hz	ES Class
Test wi	th power board	d 715G7300			,		
1	240V, 60Hz	Vout output of	Normal	19.1Vdc			
		SPS to GND	Abnormal – (see table B.3 for details, maximum result recorded)	18.7Vdc			ES1
			Single fault – (see table B.4 for details, maximum result recorded)	0			
2		LED backlight	Normal	45.8Vdc			
		output to GND	Abnormal – (see table B.3 for details, maximum result recorded)	43.2Vdc			ES1
			Single fault – (see table B.4 for details, maximum result recorded)	0			_
3	240V, 60Hz	All secondary	Normal		0.18Apk		
		port to earth	Abnormal		0.18Apk		ES1
			Single fault		0.18Apk		
4	240V, 60Hz	V, 60Hz Key button / plastic enclosure to	Normal		0.01Apk		
			Abnormal		0.01Apk		ES1
		Single fault		0.01Apk			

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Clause	Requirement + Test	Result - Remark	Verdict

	with power board	1	I T			
1	240V, 60Hz	+19V output of SPS to GND	Normal	19.0Vdc		 _
		(so de	Abnormal – (see table B.3 for details, maximum result recorded)	18.7Vdc		 ES1
			Single fault – (see table B.4 for details, maximum result recorded)	0		
2	240V, 60Hz	LED backlight	Normal	38.1Vdc		
		output to GND	Abnormal – (see table B.3 for details, maximum result recorded)	37.7Vdc		 ES1
			Single fault – (see table B.4 for details, maximum result recorded)	0		
3	240V, 60Hz	All secondary	Normal		0.17Apk	
		port to earth	Abnormal		0.17Apk	 ES1
			Single fault		0.17Apk	
4	240V, 60Hz	Key button /	Normal		0.01Apk	
		plastic enclosure to	Abnormal		0.01Apk	 ES1
		earth	Single fault		0.01Apk	
Test	with power board	715GB004				
1	240V, 60Hz	+20V_1 &	Normal	19.2Vdc		
		+20V_2 & +20Vout outputs of SPS to GND	Abnormal – (see table B.3 for details, maximum result recorded)	18.7Vdc		 ES1
		details,	(see table B.4 for details, maximum result	0		
2	240V, 60Hz	LED backlight	Normal	38.1Vdc		
		output to GND	Abnormal – (see table B.3 for details, maximum result recorded)	37.7Vdc		 ES1

			IEC 6	2368-1				
Cla	use	Requirer	nent + Test		Resu	ult - Remark		Verdict
			Single fault – (see table B.4 for details, maximum result recorded)	0				
3	240V, 60Hz		Normal			0.01Apk		
		port to earth	Abnormal			0.01Apk		ES1
			Single fault			0.01Apk		
4	240V, 60Hz		Normal			0.01Apk		
		plastic enclosure to	Abnormal			0.01Apk		ES1
		earth	Single fault			0.01Apk		
5.2.2.3	3 - Capacitanc	e Limits						
	Supply	Location (e.g.	-		Param	neters		F0.01
No.	Voltage	circuit designation)	Test conditions	Capacitance	Capacitance, nF		(V)	ES Class
Test v	vith power boa	rd 715G7300						
1	264V,	L&N pin of AC	Normal	0.22µF(C901)		373		
	60Hz	60Hz inlet	Abnormal					ES3
			Single fault – SC/OC					
Test v	vith power boa	rd 715G7610						
1	264V,	L&N pin of AC	Normal	0.33µF(C9901)		01) 373		
	60Hz	inlet	Abnormal					ES3
			Single fault – SC/OC					
Test v	vith power boa	rd 715GB004						
1	264V, 60Hz	L&N pin of AC inlet	Normal	0.94µF (C9901, C9		37	3	
			Abnormal					ES3
			Single fault – SC/OC					
5.2.2.4	4 - Single Pulse	es						
No	Supply	Location (e.g.	Toot conditions		Param	neters		ES Class
No.	Voltage	circuit designation)	Test conditions	Duration (ms)	Upk	(V) I	ok (mA)	ES Class
			Normal					
			Abnormal					
			Single fault – SC/OC					

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Clause	Requirement + Test	Result - Remark	Verdict				

5.2.2.5	5.2.2.5 - Repetitive Pulses										
NI.	No. Supply Voltage Location (e.g. circuit designation)			Parameters		F0 01					
NO.			l est conditions	Off time (ms)	Upk (V)	lpk (mA)	ES Class				
			Normal								
			Abnormal								
			Single fault – SC/OC								

Test Conditions:

Normal - Max. normal load

Supplementary information: SC=Short Circuit, OC=Short Circuit

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurements						
	Supply voltage (V):	90V/ 60Hz	264V/ 60Hz	90V/ 60Hz	90V/ 60Hz	_	
	Ambient T _{min} (°C):					_	
	Ambient T _{max} (°C):					_	
	Tma (°C):	40.0	40.0	40.0	40.0	_	
Maximum n	neasured temperature T of part/at:		Τ ((°C)		Allowed T _{max} (°C)	
Orientation	Orientation		Horizontal Vertical (main board up)		Vertical (main board down)		
Test with co	onstruction 1 (power board 715G7610, r	nain board 7	15G9485 typ	oe B)			
AC inlet CN	901 (on power board)	58.2	52.1	56.3	66.0	70	
Y-cap C990	3 (on power board)	58.1	52.7	56.7	70.0	105	
X-cap C990	11 (on power board)	70.3	60.6	64.0	87.5	85	
PCB near N	IR9901 (on power board)	92.6	72.9	78.0	94.6	105	
L9902 coil (on power board)	86.5	64.5	67.4	100.5	105	
PCB near E	D9901 (on power board)	95.3	77.8	82.5	99.1	105	
E-cap C901	(on power board)	75.5	63.7	71.3	77.8	105	
PCB near C	901 (on power board)	92.0	77.5	89.6	85.8	105	
Y-cap C9902 (on power board)		92.0	77.2	74.7	90.3	105	
Opto-coupler U902 body (on power board)		84.4	73.3	87.8	77.8	100	
T901 coil (c	n power board)	100.2	94.2	93.1	90.0	110	
T901 core (on power board)	95.5	86.8	87.3	90.8	110	
PCB near D	9901 (on power board)	99.4	93.4	88.3	88.5	105	

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Clause	Requirement + Test		R	esult - Rema	ark	Verdict	
PCB near m	ain IC (on main board)	64.4	63.2	71.5	64.8	105	
PCB near IC	C U7001 (on USB board)	55.5	54.9	54.6	63.5	105	
Plastic enclo	osure inside near T901	53.4	50.9	51.6	55.6	Ref.	
Ambient		40 (18.5)	40 (18.6)	40 (18.7)	40 (17.8)		
For accessib	ole parts						
Plastic enclo	osure outside near T9101	32.3	31.4	31.3	35.4	94	
Metal enclos	sure	44.6	40.5	42.5	46.2	70	
Panel surfac	ce	34.4	33.5	35.9	37.6	94	
SW901 body	у	41.2	37.6	39.1	56.4	77	
Button		28.5	29.2	28.6	32.1	77	
Ambient		25 (18.5)	25 (18.6)	25 (18.7)	25 (17.8)		
Test with co	nstruction 3 (power board 715G7300, n	nain board 7	15G9494)	1	1	1	
AC Inlet CNS	901 (on power board)	46.7	45.0			70	
Y-cap C902	body (on power board)	47.7	46.6			105	
X-cap C901	body (on power board)	55.7	49.9			85	
PCB near N	R901 (on power board)	56.5	50.0			105	
L901 coil (or	n power board)	65.2	52.6			105	
PCB near Bl	D901 (on power board)	62.0	54.2			105	
E-cap C907	body (on power board)	54.8	51.4			105	
PCB near Q	901 (on power board)	70.7	67.0			105	
Y-cap C913	body (on power board)	61.9	56.3			105	
Transformer	T902 coil (on power board)	87.0	86.6			110	
Transformer	T902 core (on power board)	82.6	83.1			110	
U902 body (on power board)	63.4	61.8			100	
PCB near D	901 (on power board)	73.0	67.9			105	
PCB near m	ain IC (on main board)	55.4	56.1			105	
Plastic enclo	sure inside near Transformer	41.8	42.2			Ref.	
Ambient		40 (26.8)	40 (25.5)				
For accessib	ble parts						
Plastic enclo	osure outside near T9101	27.9	26.9			94	
Metal enclos	sure	36.9	35.0			70	
Panel surfac	ce	27.8	27.6			94	
Button		26.3	26.1			77	
Ambient		26.8	25.5				

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Clause	Requiren	nent + Test				R	esult - Ren	nark	Verdict
Toot with an	estruction 4 (namer boars	1 71 F C D O O	4 main ha	ord 7	1 F C A	007)		-	
	nstruction 4 (power board)	1 / 15GB00	<u> </u>				62.6	GE 4	70
	901 (on power board)		58.			4.9	63.6	65.4	70
•	5 (on power board)		61.			5.9	65.8	71.5	85
•	3 (on power board)		69.			6.7	79.5	75.2	85
•	1 (on power board)		71.			5.0	75.1	76.1	85
	H9901 (on power board)		102			9.3	97.6	103.8	105
<u> </u>	on power board)		100			6.9	91.2	111.0	130
<u> </u>	on power board)		99.			8.6	91.0	110.8	130
	D9901 (on power board)		85.			8.0	66.2	72.8	105
•	1 (on power board)		74.			2.5	75.2	91.0	105
•	on power board)		104			8.6	88.9	108.5	130
	9801 and Q9801 (on pow		102			2.4	93.9	96.1	105
PCB near Q	9101 and Q9102 (on pow	ver board)	97.	.0	8	8.8	87.2	86.5	105
Y-cap C9909	9 (on power board)		63.	.0	5	4.9	55.0	87.0	105
Y-cap C991	0 (on power board)		62.	.9	55.0		55.1	86.9	105
Opto-couple	r U9802 body (on power	board)	89.	.3	80.3		77.8	73.3	100
Opto-couple	r U9106 body (on power	board)	89.	.4	80.2		77.7	73.2	100
T9102 coil (d	on power board)		94.	.3	87.1		95.5	99.4	110
T9102 core	(on power board)		89.	89.8		2.9	88.5	91.4	110
PCB near D	9105 (on power board)		84.	84.1		2.2	92.7	87.5	105
PCB near m	ain IC (on main board)		66.	66.4		6.4	80.8	64.2	105
Plastic enclo	sure inside near T9102		51.	.3	49.7		50.9	51.3	Ref.
Ambient			4((16.			10 5.4)	40 (14.3)	40 (18.5)	
Test for acce	essible part								
Plastic enclo	sure outside near T9101		32.	.0	3	2.0	31.7	32.1	94
Metal enclos	sure		41.	.9	3	8.9	40.9	45.4	70
Panel surfac	e		33.	.5	3	3.6	33.5	34.2	94
SW901 body		40.	.6	3	7.1	43.4	55.1	77	
Button		25.	.2	2	5.3	25.4	25.4	77	
Ambient		25 (16.			25 5.4)	25 (14.3)	25 (18.5)		
Supplement	ary information:								
Temperature	e T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ ('	°C)	R ₂ (Ω	2) T (°0	C) Allowed T _{max} (°C)	Insulation class

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Clause	Requirement + Test	Result - Remark	Verdict

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 40°C.

All values for internal parts are shifted from actual ambient to max. ambient 40°C.

All values for accessible parts are shifted from actual ambient to ambient 25°C.

Temperature limits are calculated as follows:

Winding components providing safety isolation:

Class B \rightarrow Tmax = 120 - 10 = 110°C.

5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics					
Penetration (mm)						
Object/ Part	No./Material	Manufacturer/t rademark	T softening (°C)		
supplementary information:						

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics						
Allowed impression diameter	(mm):	≤ 2 mm				
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression dia	meter (mm)		
Plastic enclosure: HIPS- 5197, 2.5mm	Kingfa	90	1.59	9		
Plastic enclosure: GAR- 011(L85), 2.5mm	Kingfa	85	1.3	I		
Plastic enclosure: GAR- 011(L65), 2.5mm	Kingfa	85	1.29	9		
Plastic enclosure: HIPS- 510(H), 2.5mm	Kingfa	80	1.29)		
Plastic enclosure: FRHIPS- 960, 2.5mm	Kingfa	85	1.88	3		
Plastic enclosure: GC- 0750(+), 2.5mm	Cheil	80	1.6	1		
Plastic enclosure: GC- 0700(+), 2.5mm	Cheil	80	1.94	1		
Plastic enclosure: HG- 0760(+), 2.5mm	Cheil	85	1.73	3		
Plastic enclosure: LX- 0951(+), 2.5mm	Cheil	85 1.		1.83		
Plastic enclosure: SD-0150, 2.5mm	Cheil	85	85 1.4			
Plastic enclosure: HR-1360, 2.5mm	Cheil	85	1.7	1		

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Plastic enclosure: BF-0670F, 2.5mm	Cheil	80	1.59
Plastic enclosure: HF380, 2.5mm	LG	85	1.48
Plastic enclosure: SE885, 2.5mm	LG	80	1.42
Plastic enclosure: LUPOY GP-1000(#), 2.5mm	LG	95	1.21
Plastic enclosure: XG568, 2.5mm	LG	80	1.81
Plastic enclosure: XG569C, 2.5mm	LG	80	1.85
Plastic enclosure: HF388H, 2.5mm	LG	85	1.39
Plastic enclosure: SE750, 2.5mm	LG	80	1.5
Plastic enclosure: TN-7500, 2.5mm	Teijin	85	1.57
Plastic enclosure: HIPS- 2000, 2.5mm	ORINKO	85	1.48
Plastic enclosure: GAR- 011C, 2.5mm	Kingfa	90	1.91
0			

Above mentioned plastic enclosure material was tested by client's request.

5.4.2.2, 5.4.2.4 and 5.4.3	,							
Clearance (cl distance (cr)	Up (V)	U r.m.s. (V)	Frequency (kHz) ¹	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)	
Test with po	wer board 715G7300							
Under fuse (F	⁻ 901)	420	250		2.3	3.0	2.5	3.0
Before fuse (b	petween L-N)	420	250		2.3	4.3	2.5	4.3
Line-GND		420	250		2.3	3.1	2.5	3.1
Neutral-GND		420	250		2.3	3.1	2.5	3.1
Under C902		420	250		2.3	3.3	2.5	3.3
Under C903		420	250		2.3	3.3	2.5	3.3
Primary comp pillar	ponent C907 to metal	550	250	Above 30	2.3	5.0	2.5	5.0
Primary heats enclosure	sink HS1 to metal	420	250		2.3	3.5	2.5	3.5
T902 core to	metal enclosure	420	250		2.3	8.5	2.5	8.5

Clause	Clause Requirement + Test				Res	Verdict		
Under T902		550	250	Above 30	4.5	8.2	5.0	8.2
Under C913		420	250		4.5	7.5	5.0	7.5
Under U902		420	250		4.5	7.8	5.0	7.8
Secondary J of T902	umper J903 to core	550	250	Above 30	4.5	9.4	5.0	9.4
	ductor of power er accessible area	420	250		4.5	>10	5.0	>10

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Supplementary information:

- 1. Core of main transformer T902 consider as primary.
- 2. One Mylar sheet is fixed between power board and panel plate to fulfill the requirement for reinforced insulation. See table 5.2 for the electric strength test for Mylar sheet.
- 3. One Mylar sheet is fixed between primary component of power board and metal enclosure to fulfill the requirement for basic insulation. See table 5.2 for the electric strength test for Mylar sheet.
- 4. Glued component: C907.
- 5. Considered altitude correction factor 1.48 for clearances for an altitude of 5000m.
- 6. For clearance and creepage that did not describe above are far larger than limit above.

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum (: Minimum Clearances/Creepage distance							
	l) and creepage at/of/between:	Up (V)	U r.m.s. (V)	Frequency (kHz) ¹	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)	
Test with power board 715G7610									
Under fuse (F	- 901)	420	250		2.3	2.7	2.5	2.7	
Before fuse (between L-N)	420	250		2.3	3.4	2.5	3.4	
Line-GND		420	250		2.3	3.1	2.5	3.1	
Neutral-GND		420	250		2.3	3.1	2.5	3.1	
Under C9903	3	420	250		2.3	3.4	2.5	3.4	
Under C9904	ļ	420	250		2.3	3.4	2.5	3.4	
T901 core to	metal enclosure	420	250		2.3	>10 ^{3.}	2.6	>10 ^{3.}	
C901 to meta	al enclosure	420	250		2.3	4.2	2.5	4.2	
Under T901		494	256	Above 30	4.5	11.0	5.2	11.0	
Under C9902	<u>)</u>	420	250		4.5	7.5	2.5	7.5	
Under U902		420	250		4.5	7.8	2.5	7.8	
Secondary he core of T901	eatsink HS902 to	494	256	Above 30	4.5	9.2	5.2	9.2	
-	luctor of power r accessible area	420	250		4.5	>10	5.0	>10	

Supplementary information:

1. Core of main transformer T901 consider as primary.

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Clause	Requirement + Test	Result - Remark	Verdict

- 2. One Mylar sheet is fixed between power board and panel plate to fulfill the requirement for reinforced insulation. See table 5.2 for the electric strength test for Mylar sheet.
- 3. One Mylar sheet is fixed between primary component of power board and metal enclosure to fulfill the requirement for basic insulation. See table 5.2 for the electric strength test for Mylar sheet.
- 4. Glued component: C901 and C902.
- 5. Considered altitude correction factor 1.48 for clearances for an altitude of 5000m.
- 6. For clearance and creepage that did not describe above are far larger than limit above.

5.4.2.2, 5.4.2.4 and 5.4.3	Minimum Clearances/Creepage distance							
Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U r.m.s. (V)	Frequency (kHz) ¹	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)	
Test with power board 715GB004								
Under fuse (F9901)	420	250		2.3	3.3	2.5	3.3	
Under Switch (F9901)	420	250		2.3	2.8	2.5	2.8	
Before fuse (between L-N)	420	250		2.3	6.0	2.5	7.0	
Line-GND	420	250		2.3	3.0	2.5	3.1	
Neutral-GND	420	250		2.3	3.0	2.5	3.1	
Under C9903	420	250		2.3	8.3	2.5	8.3	
Under C9904	420	250		2.3	8.3	2.5	8.3	
Under C9905	420	250		2.3	6.4	2.5	6.4	
Under C9909	420	250		2.3	8.2	2.5	8.2	
Under C9910	420	250		2.3	8.2	2.5	8.2	
Primary components to metal enclosure	441	268	Above 30	2.3	>10 ^{3.}	2.7	>10 ^{3.}	
Primary components to plate of LCD Panel	441	268	Above 30	2.3	>10 ^{3.}	2.7	>10 ^{3.}	
Under T9102	441	268	Above 30	4.5	17.0	5.4	17.0	
Under C9913	420	250		4.5	8.2	5.0	8.2	
Under U9106	420	250		4.5	8.0	5.0	8.0	
Under U9802	420	250		4.5	8.0	5.0	8.0	
Primary component R9813 to core of T9102	441	268	Above 30	4.5	8.2	5.4	8.2	
Primary heatsink HS9802 to core of T9102	441	268	Above 30	4.5	10.1	5.4	10.1	
Primary conductor of power switch to user accessible area	420	250		4.5	>10	5.0	>10	

1. Core of main transformer T9102 consider as secondary.

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See table 5.4.2.2, 5.4.2.4

and 5.4.3

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- 2. One Mylar sheet is fixed between power board and panel plate to fulfill the requirement for reinforced insulation. See table 5.2 for the electric strength test for Mylar sheet.
- 3. One Mylar sheet is fixed between primary component of power board and metal enclosure to fulfill the requirement for basic insulation. See table 5.2 for the electric strength test for Mylar sheet.
- 4. Glued component: C9801 and C9920.
- 5. Considered altitude correction factor 1.48 for clearances for an altitude of 5000m.
- 6. For clearance and creepage that did not describe above are far larger than limit above.

5.4.2.3	TABLE: Minimum Cleara	/oltage		Р			
	Overvoltage Category (C	Overvoltage Category (OV):					
	Pollution Degree:					2	
Clearance distanced between:		Required withstand voltage			asured	cl (mm)	
Basic		2500	See table 5.4.2.2, 5.4.2.4 and 5.4.3	See table 5.4.2.2, and 5.4.3		•	

See table 5.4.2.2,

5.4.2.4 and 5.4.3

Supplementary information:

Reinforce

The equipment to be operated up to 5000 m above sea level, each clearance multiplied with an altitude correction factor of 1.48.

2500

5.4.2.4	2.4 TABLE: Clearances based on electric strength test					
Test voltage	e applied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakd Yes /		
Supplement	tary information:					

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Distance through insulation measurements						
Distance the insulation d	_	Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)	
Plastic encl	osure	420	0.06	See table 4.1.2	0.4	See table 4.1.2	
Mylar sheet		420		See table 4.1.2	0.4	See table 4.1.2	
Supplement	ary informatio	n:					

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5.4.9	TABLE: Electric strength tests						
Test voltage	e applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No			
Test with po	ower board 715G7300		•				
Basic/supp	lementary:						
Unit primar	y to earthed metal part	AC	2500	No			
Mylar sheet ²⁾		DC	2500	No			
Reinforced:							
L/N to acce	ssible plastic enclosure with metal	DC	4000	No			
Unit primar	y to secondary (output)	DC	4000	No			
T902 1): primary to secondary		DC	4000	No			
T902 1): core to secondary		DC	4000	No			
T902 1): ead	ch layer of insulation tape	DC	4000	No			

- 1. For all sources of transformer;
- 2. For all source of mylar sheet;
- 3. The tests mentioned above were performed after humidity test.

5.4.9	TABLE: Electric strength tests						
Test voltag	e applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No			
Tested with	n power board 715G7610						
Basic/supp	lementary:						
Unit primar	y to earthed metal part	AC	2500		No		
Mylar sheet ²⁾		AC	2500		No		
Reinforced							
L/N to exte	rnal plastic enclosure with metal foil	AC	4000		No		
L/N to outp	ut terminals	AC	4000		No		
T901 1): primary to secondary		AC	4000	No			
T901 ¹): core to secondary		AC	4000	No			
T901 ¹⁾ : each layer of insulation tape		AC	4000		No		

- 1. For all sources of transformer;
- 2. For all source of mylar sheet;
- 3. The tests mentioned above were performed after humidity test.

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Clause	Requirement + Test	Result - Remark	Verdict

5.4.9	TABLE: Electric strength tests							
Test voltage	e applied between:	Voltage shape (AC, DC)	Test voltage (V)		eakdown /es / No			
Tested with	power board 715GB004							
Basic/suppl	ementary:							
Unit primary	to earthed metal part	AC	2500		No			
Mylar sheet ²⁾		DC	2500		No			
Reinforced:								
L/N to exter	nal plastic enclosure with metal foil	AC	4000		No			
L/N to outpu	ut terminals	AC	4000	.000 No				
T9102 1): primary to secondary		AC	4000	No				
T9102 1): core to primary		AC	4000	No				
T9102 1): ea	ch layer of insulation tape	AC	4000		No			

- 1. For all sources of transformer;
- 2. For all source of mylar sheet;
- 3. The tests mentioned above were performed after humidity test.

5.5.2.2	TABLE: Stored discharge on capacitors											
Supply Voltage (V), Hz		Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Clas	ssification					
Tested with	Tested with power board 715G7300											
240V,	60Hz	L-N	Ν	N/A	0	ES1 (60Vdc)						
Tested with	h power boa	rd 715G76	10									
240V,	60Hz	L-N	N	N/A	0	ES1 (60Vdc)					
Tested with power board 715GB004												
240V,	60Hz	L-N	N	N/A	0	ES1 ((60Vdc)					

Supplementary information:

X-capacitors installed for testing are: See Table 4.1.2

Notes:

A. Test Location:

Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth

- B. Operating condition abbreviations:
- N Normal operating condition (e.g., normal operation, or open fuse); S Single fault condition

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Clause	Requirement + Test	Result - Remark	Verdict						

5.6.6.2 TABLE: Resistance	of protective conduc	protective conductors and terminations					
Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (mΩ)			
Tested with power board 715G7	300						
PE terminal of AC inlet to internal metal enclosure	40	2	0.16	4			
PE terminal of AC inlet to internal metal enclosure	40	2	0.16	4			
PE terminal of AC inlet to C902 trace	40	2	0.16	4			
PE terminal of AC inlet to C902 trace	40	2	0.16	4			
PE terminal of AC inlet to C903 trace	40	2	0.16	4			
PE terminal of AC inlet to C903 trace	40	2	0.16	4			
Tested with power board 715G7	610						
PE terminal of AC inlet to internal metal enclosure	40	2	0.24	6			
PE terminal of AC inlet to internal metal enclosure	40	2	0.24	6			
PE terminal of AC inlet to C9903 trace	40	2	0.24	6			
PE terminal of AC inlet to C9903 trace	40	2	0.24	6			
PE terminal of AC inlet to C9904 trace	40	2	0.24	6			
PE terminal of AC inlet to C9904 trace	40	2	0.24	6			
Tested with power board 715GB	004						
PE terminal of AC inlet to internal metal enclosure	40	2	0.24	6			
PE terminal of AC inlet to internal metal enclosure	40	2	0.24	6			
PE terminal of AC inlet to C9903/C9904 trace	40	2	0.24	6			
PE terminal of AC inlet to C9903/C9904 trace	40	2	0.24	6			
PE terminal of AC inlet to C9905 trace	40	2	0.24	6			

		9.									
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Clause	Require	ement + Test		Result - Remark	Verdict						
PE terminal o	of AC inlet to C9905	40	2	0.24	6						
PE terminal of AC inlet to C9909/C9910 trace		40	2	0.32	8						
PE terminal of AC inlet to C9909/C9910 trace		40	2	0.32	8						
Supplementary information:											

5.7.2.2, 5.7.4							
Supply volta	age:			_			
Location		Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	No (mA)				
Test on ear	thed metal enclosure		Po	x. 0.34 (for wer board 5G7300);			
		1	Po	x. 0.72 (for wer board 5G7610);			
			Po	x. 0.23 (for wer board 5GB004);			
		2*					
		3					
		4					
		5					
		6					
		8					

Notes:

- [1] Supply voltage is the anticipated maximum Touch Voltage
- [2] Earthed neutral conductor [Voltage differences less than 1% or more]
- [3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3
- [4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.
- [5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.

6.2.2 Table: Electrical power sources (PS) measurements for classification									
Source	Source Description Measurement Max Power after 3 s Max Power after 5 PS C						assification		
А		All DC	Power (W) :				PS2		

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Clause	R	Requirement + Test Result - Remark V									
	outputs of	V _A (V)	:				`	ee Table			
	SPS	I _A (A)	:				Ai	nex Q.1			
Supplementary Information: (*) Measurement taken only when limits at 3 seconds exceed PS1 limits											

6.2.3.1	Table: Determination of Potential Ignition Sources (Arcing PIS)							
	Location	Open circuit voltage After 3 s (Vp)	Measured r.m.s current (Irms)	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No			
	2)	2)	2)	2)	Yes			

- 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 the EUT are considered as arcing PIS.

6.2.3.2	6.2.3.2 Table: Determination of Potential Ignition Sources (Resistive PIS)						
Circuit Location (x-y)		Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive 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	8.5.5 TABLE: High Pressure Lamp					
Description		Values	Energy Source Classifica			
Lamp type.	······································		_			
Manufactur	er:		_			
Cat no			_			
Pressure (c	cold) (MPa)		MS_			
Pressure (o	pperating) (MPa)		MS_			
Operating time (minutes):			_			
Explosion n	nethod:		_			
Max particle	e length escaping enclosure (mm) .:		MS_			

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Max particle length beyond 1 m (mm):	MS_
Overall result	
Supplementary information:	

B.2.5	TABLE: Inpu	ut test					Р	
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status	
Test with construction 1 with power board 715G7610 and main board 715G9485 type A								
HDMI mode	ı	T		T			<u> </u>	
90V/50Hz	0.899		52.3		F9901	0.899	Max. normal load condition.	
90V/60Hz	0.864		51.7		F9901	0.864	Max. normal load condition.	
100V/50Hz	0.809	1.5	51.6		F9901	0.809	Max. normal load condition.	
100V/60Hz	0.785	1.5	51.6		F9901	0.785	Max. normal load condition.	
240V/50Hz	0.390	1.5	50.1		F9901	0.390	Max. normal load condition.	
240V/60Hz	0.384	1.5	50.5		F9901	0.384	Max. normal load condition.	
264V/50Hz	0.366		50.6		F9901	0.366	Max. normal load condition.	
264V/60Hz	0.358		50.4		F9901	0.358	Max. normal load condition.	
DisplayPort r	node				•			
90V/50Hz	0.893		52.1		F9901	0.893	Max. normal load condition.	
90V/60Hz	0.865		52.0		F9901	0.865	Max. normal load condition.	
100V/50Hz	0.805	1.5	51.5		F9901	0.805	Max. normal load condition.	
100V/60Hz	0.781	1.5	51.7		F9901	0.781	Max. normal load condition.	
240V/50Hz	0.387	1.5	50.2		F9901	0.387	Max. normal load condition.	
240V/60Hz	0.380	1.5	50.2		F9901	0.380	Max. normal load condition.	
264V/50Hz	0.360		50.1		F9901	0.360	Max. normal load condition.	
264V/60Hz	0.355		50.4		F9901	0.355	Max. normal load condition.	
Test with construction 1 with power board 715G7610 and main board 715G9485 type B								

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B.2.5	TABLE: Inp	ut test					Р	
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/statu	JS
HDMI mode	DMI mode							
90V/50Hz	0.937		54.4		F9901	0.937	Max. normal load condition.	
90V/60Hz	0.903		54.2		F9901	0.903	Max. normal load condition.	
100V/50Hz	0.844	1.5	54.0		F9901	0.844	Max. normal load condition.	
100V/60Hz	0.818	1.5	53.9		F9901	0.818	Max. normal load condition.	
240V/50Hz	0.405	1.5	52.4		F9901	0.405	Max. normal load condition.	
240V/60Hz	0.398	1.5	52.6		F9901	0.398	Max. normal load condition.	
264V/50Hz	0.378		53.0		F9901	0.378	Max. normal load condition.	
264V/60Hz	0.370		52.8		F9901	0.370	Max. normal load condition.	
DisplayPort r	mode							
90V/50Hz	0.937		54.4		F9901	0.937	Max. normal load condition.	
90V/60Hz	0.902		54.0		F9901	0.902	Max. normal load condition.	
100V/50Hz	0.844	1.5	53.9		F9901	0.844	Max. normal load condition.	
100V/60Hz	0.818	1.5	53.8		F9901	0.818	Max. normal load condition.	
240V/50Hz	0.405	1.5	52.2		F9901	0.405	Max. normal load condition.	
240V/60Hz	0.398	1.5	52.3		F9901	0.398	Max. normal load condition.	
264V/50Hz	0.377		52.2		F9901	0.377	Max. normal load condition.	
264V/60Hz	0.371		52.6		F9901	0.371	Max. normal load condition.	
VGA mode			·			,		
90V/50Hz	0.935		54.3		F9901	0.935	Max. normal load condition.	
90V/60Hz	0.903		54.1		F9901	0.903	Max. normal load condition.	
100V/50Hz	0.842	1.5	53.7		F9901	0.842	Max. normal load condition.	

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B.2.5 T.	ABLE: Inpu	ut test					Р
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
100V/60Hz	0.817	1.5	53.9		F9901	0.817	Max. normal load condition.
240V/50Hz	0.406	1.5	52.6		F9901	0.406	Max. normal load condition.
240V/60Hz	0.398	1.5	52.3		F9901	0.398	Max. normal load condition.
264V/50Hz	0.376		52.4		F9901	0.376	Max. normal load condition.
264V/60Hz	0.370		52.5		F9901	0.370	Max. normal load condition.
Test with cons	struction 1	with power bo	oard 715G7	7610 and main I	board 7150	9496	
HDMI mode							
90V/50Hz	0.865		49.5		F9901	0.865	Max. normal load condition.
90V/60Hz	0.832		49.3		F9901	0.832	Max. normal load condition.
100V/50Hz	0.776	1.5	49.2		F9901	0.776	Max. normal load condition.
100V/60Hz	0.753	1.5	48.9		F9901	0.753	Max. normal load condition.
240V/50Hz	0.376	1.5	48.3		F9901	0.376	Max. normal load condition.
240V/60Hz	0.368	1.5	48.2		F9901	0.368	Max. normal load condition.
264V/50Hz	0.349		48.2		F9901	0.349	Max. normal load condition.
264V/60Hz	0.343		48.2		F9901	0.343	Max. normal load condition.
DisplayPort mo	ode						
90V/50Hz	0.863		49.5		F9901	0.863	Max. normal load condition.
90V/60Hz	0.835		49.4		F9901	0.835	Max. normal load condition.
100V/50Hz	0.777	1.5	48.9		F9901	0.777	Max. normal load condition.
100V/60Hz	0.754	1.5	48.9		F9901	0.754	Max. normal load condition.
240V/50Hz	0.375	1.5	48.3		F9901	0.375	Max. normal load condition.
240V/60Hz	0.368	1.5	48.2		F9901	0.368	Max. normal load condition.

Clause

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B.2.5	TABLE: Inpu	ut test					Р
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
264V/50Hz	0.350		48.2		F9901	0.350	Max. normal load condition.
264V/60Hz	0.344		48.4		F9901	0.344	Max. normal load condition.
VGA mode							
90V/50Hz	0.870		49.9		F9901	0.870	Max. normal load condition.
90V/60Hz	0.840		49.7		F9901	0.840	Max. normal load condition.
100V/50Hz	0.783	1.5	49.2		F9901	0.783	Max. normal load condition.
100V/60Hz	0.757	1.5	49.2		F9901	0.757	Max. normal load condition.
240V/50Hz	0.375	1.5	48.2		F9901	0.375	Max. normal load condition.
240V/60Hz	0.369	1.5	48.4	1	F9901	0.369	Max. normal load condition.
264V/50Hz	0.352		48.9	1	F9901	0.352	Max. normal load condition.
264V/60Hz	0.344		48.5	1	F9901	0.344	Max. normal load condition.
Test with co	nstruction 1	with power bo	oard 715G7	'610 and main l	board 7150	9483	
HDMI mode					T		
90V/50Hz	0.876		50.5		F9901	0.876	Max. normal load condition.
90V/60Hz	0.842		50.2		F9901	0.842	Max. normal load condition.
100V/50Hz	0.787	1.5	50.0		F9901	0.787	Max. normal load condition.
100V/60Hz	0.765	1.5	49.9		F9901	0.765	Max. normal load condition.
240V/50Hz	0.381	1.5	49.4		F9901	0.381	Max. normal load condition.
240V/60Hz	0.375	1.5	49.4		F9901	0.375	Max. normal load condition.
264V/50Hz	0.355		49.2		F9901	0.355	Max. normal load condition.
264V/60Hz	0.348		49.1		F9901	0.348	Max. normal load condition.
DisplayPort n	node						
90V/50Hz	0.878		50.9		F9901	0.878	Max. normal load condition.

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B.2.5 T	ABLE: Inpu	ut test					Р	
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status	
90V/60Hz	0.840		50.9		F9901	0.840	Max. normal load condition.	
100V/50Hz	0.789	1.5	50.4		F9901	0.789	Max. normal load condition.	
100V/60Hz	0.765	1.5	50.1		F9901	0.765	Max. normal load condition.	
240V/50Hz	0.378	1.5	48.9		F9901	0.378	Max. normal load condition.	
240V/60Hz	0.369	1.5	49.0		F9901	0.369	Max. normal load condition.	
264V/50Hz	0.353		49.1		F9901	0.353	Max. normal load condition.	
264V/60Hz	0.347		49.2		F9901	0.347	Max. normal load condition.	
VGA mode								
90V/50Hz	0.857		49.2		F9901	0.857	Max. normal load condition.	
90V/60Hz	0.827		49.1		F9901	0.827	Max. normal load condition.	
100V/50Hz	0.773	1.5	49.0		F9901	0.773	Max. normal load condition.	
100V/60Hz	0.751	1.5	48.6		F9901	0.751	Max. normal load condition.	
240V/50Hz	0.374	1.5	47.9		F9901	0.374	Max. normal load condition.	
240V/60Hz	0.368	1.5	47.8		F9901	0.368	Max. normal load condition.	
264V/50Hz	0.352		48.2		F9901	0.352	Max. normal load condition.	
264V/60Hz	0.343		47.8		F9901	0.343	Max. normal load condition.	
DVI mode								
90V/50Hz	0.865		49.6		F9901	0.865	Max. normal load condition.	
90V/60Hz	0.835		49.4		F9901	0.835	Max. normal load condition.	
100V/50Hz	0.779	1.5	49.2		F9901	0.779	Max. normal load condition.	
100V/60Hz	0.757	1.5	49.2		F9901	0.757	Max. normal load condition.	
240V/50Hz	0.378	1.5	48.4		F9901	0.378	Max. normal load condition.	

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Clause	Requirement + Test	Result - Remark	Verdict

B.2.5	TABLE: Inpu	ut test					Р		
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status		
240V/60Hz	0.370	1.5	48.1		F9901	0.370	Max. normal load condition.		
264V/50Hz	0.352		48.0		F9901	0.352	Max. normal load condition.		
264V/60Hz	0.344		47.8		F9901	0.344	Max. normal load condition.		
Test with construction 2 with power board 715G7610 and main board 715G9496									
HDMI mode									
90V/50Hz	0.314		17.2		F9901	0.314	Max. normal load condition.		
90V/60Hz	0.308		17.1		F9901	0.308	Max. normal load condition.		
100V/50Hz	0.286	1.5	17.1		F9901	0.286	Max. normal load condition.		
100V/60Hz	0.281	1.5	17.3		F9901	0.281	Max. normal load condition.		
240V/50Hz	0.149	1.5	17.2		F9901	0.149	Max. normal load condition.		
240V/60Hz	0.146	1.5	16.9		F9901	0.146	Max. normal load condition.		
264V/50Hz	0.139		17.2		F9901	0.139	Max. normal load condition.		
264V/60Hz	0.139		17.3		F9901	0.139	Max. normal load condition.		
DisplayPort m	node								
90V/50Hz	0.311		17.1		F9901	0.311	Max. normal load condition.		
90V/60Hz	0.305		17.1		F9901	0.305	Max. normal load condition.		
100V/50Hz	0.284	1.5	17.0		F9901	0.284	Max. normal load condition.		
100V/60Hz	0.278	1.5	16.9		F9901	0.278	Max. normal load condition.		
240V/50Hz	0.145	1.5	16.8		F9901	0.145	Max. normal load condition.		
240V/60Hz	0.145	1.5	17.0		F9901	0.145	Max. normal load condition.		
264V/50Hz	0.137		16.8		F9901	0.137	Max. normal load condition.		
264V/60Hz	0.137		17.2		F9901	0.137	Max. normal load condition.		
VGA mode									

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Clause	Requirement + Test	Result - Remark	Verdict

B.2.5 T	ABLE: Inpu	ut test					Р
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
90V/50Hz	0.314		17.1		F9901	0.314	Max. normal load condition.
90V/60Hz	0.308		17.1		F9901	0.308	Max. normal load condition.
100V/50Hz	0.287	1.5	17.1		F9901	0.287	Max. normal load condition.
100V/60Hz	0.280	1.5	17.1		F9901	0.280	Max. normal load condition.
240V/50Hz	0.147	1.5	16.9		F9901	0.147	Max. normal load condition.
240V/60Hz	0.147	1.5	17.0		F9901	0.147	Max. normal load condition.
264V/50Hz	0.140		17.3		F9901	0.140	Max. normal load condition.
264V/60Hz	0.139		17.3		F9901	0.139	Max. normal load condition.
Test with con	struction 3	with power bo	oard 715G7	300 and main b	ooard 715G	9494	
HDMI mode					1		.
90V/50Hz	0.405		22.2		F901	0.405	Max. normal load condition.
90V/60Hz	0.396		22.1		F901	0.396	Max. normal load condition.
100V/50Hz	0.367	1.5	21.9		F901	0.367	Max. normal load condition.
100V/60Hz	0.358	1.5	22.0		F901	0.358	Max. normal load condition.
240V/50Hz	0.183	1.5	21.9		F901	0.183	Max. normal load condition.
240V/60Hz	0.181	1.5	22.0		F901	0.181	Max. normal load condition.
264V/50Hz	0.173		22.3		F901	0.173	Max. normal load condition.
264V/60Hz	0.171		22.3		F901	0.171	Max. normal load condition.
VGA mode							
90V/50Hz	0.415		22.8		F901	0.415	Max. normal load condition.
90V/60Hz	0.405		22.6		F901	0.405	Max. normal load condition.
100V/50Hz	0.373	1.5	22.6		F901	0.373	Max. normal load condition.

Requirement + Test

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Result - Remark

Verdict

B.2.5	ΓABLE: Inp	ut test					Р	
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status	
100V/60Hz	0.364	1.5	22.6		F901	0.364	Max. normal load condition.	
240V/50Hz	0.184	1.5	22.0		F901	0.184	Max. normal load condition.	
240V/60Hz	0.179	1.5	21.8		F901	0.179	Max. normal load condition.	
264V/50Hz	0.172		22.3		F901	0.172	Max. normal load condition.	
264V/60Hz	0.169		22.3		F901	0.169	Max. normal load condition.	
DVI mode								
90V/50Hz	0.415		22.7		F901	0.415	Max. normal load condition.	
90V/60Hz	0.404		22.6		F901	0.404	Max. normal load condition.	
100V/50Hz	0.374	1.5	22.6		F901	0.374	Max. normal load condition.	
100V/60Hz	0.363	1.5	22.4		F901	0.363	Max. normal load condition.	
240V/50Hz	0.182	1.5	21.7		F901	0.182	Max. normal load condition.	
240V/60Hz	0.179	1.5	21.7		F901	0.179	Max. normal load condition.	
264V/50Hz	0.171		22.0		F901	0.171	Max. normal load condition.	
264V/60Hz	0.168		21.9		F901	0.168	Max. normal load condition.	
Test with cor	nstruction 4	with power be	oard 715GE	3004 and main I	board 715G	A987		
HDMI mode		T			1	T	-	
90V/50Hz	1.589		142.0		F9901	1.589	Max. normal load condition.	
90V/60Hz	1.585		141.8		F9901	1.585	Max. normal load condition.	
100V/50Hz	1.417	1.5	140.8		F9901	1.417	Max. normal load condition.	
100V/60Hz	1.421	1.5	140.9		F9901	1.421	Max. normal load condition.	
240V/50Hz	0.599	1.5	136.7		F9901	0.599	Max. normal load condition.	
240V/60Hz	0.601	1.5	136.5		F9901	0.601	Max. normal load condition.	

Clause

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Clause	Requirement + Test	Result - Remark	Verdict							

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B.2.5	TABLE: Inpu	ut test					Р	
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status	
264V/50Hz	0.551		136.2		F9901	0.551	Max. normal load condition.	
264V/60Hz	0.554		136.2		F9901	0.554	Max. normal load condition.	
DisplayPort n	node							
90V/50Hz	1.585		141.8		F9901	1.585	Max. normal load condition.	
90V/60Hz	1.584		141.7		F9901	1.584	Max. normal load condition.	
100V/50Hz	1.416	1.5	140.5		F9901	1.416	Max. normal load condition.	
100V/60Hz	1.420	1.5	140.8		F9901	1.420	Max. normal load condition.	
240V/50Hz	0.598	1.5	136.5		F9901	0.598	Max. normal load condition.	
240V/60Hz	0.601	1.5	136.5		F9901	0.601	Max. normal load condition.	
264V/50Hz	0.551		136.4		F9901	0.551	Max. normal load condition.	
264V/60Hz	0.554		136.2		F9901	0.554	Max. normal load condition.	

- 1. Maximum normal load for construction 1: maximum brightness, maximum contrast, full white screen, speakers (two sets) were loaded with 1KHz sinusoidal signal and turned to maximum volume, each USB 3.0 port in USB board was maximum loaded to 5V/0.9A, USB fast charging port was loaded 5V/1.5A.
- 2. Maximum normal load for constructions 2 and 3: maximum brightness, maximum contrast, full white screen, speakers (two sets) were loaded with 1KHz sinusoidal signal and turned to maximum volume.
- 3. Maximum normal load for construction 4: maximum brightness, maximum contrast, full white screen, each USB 3.0 port in USB board was maximum loaded to 5V/0.9A, USB fast charging port was loaded 5V/1.5A, USB type C port was loaded with 20V, 3.25A.

B.3	TABLE: Abnormal operating condition tests									Р
Ambient tem	Ambient temperature (°C)									
Power source	Power source for EUT: Manufacturer, model/type, output rating: See table 4.1.2									_
Component No.	Abnormal Condition	Abnormal Supply Test Fuse Fuse T- Temp. Obs						bservation		
Test with cor	est with construction 1 (power board 715G7610, main board 715G9485 type B)									

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Clause	Requirement + Test	Result - Remark	Verdict

						I.		I
Ventilation openings	blocked	264	2hrs	F9901	0.370	Yes	Max. measured temperature: T901 coil = 86.0 T901 core = 77.9 AC inlet = 40.9 Metal enclosure = 43.9 Plastic enclosure outside near T901= 34.0 Panel = 36.5 SW901 body = 41.3 Button = 26.0 Ambient = 20.2	Unit operated normally, no hazards, no damage.
+19V output	overload	264	4hrs	F9901	0.814	Yes	Max. measured temperature: T901 coil = 118.3 T901 core = 104.2 AC inlet = 41.7 Metal enclosure = 47.2 Plastic enclosure outside near T901= 31.3 Panel = 30.9 SW901 body = 39.8 Button = 25.9 Ambient = 21.5	Before shutdown winding is loaded to additional 3.0A. No damage, no hazards.
USB 3.0 Port	overload	264	2hrs	F9901	0.450	Yes	Max. measured temperature: T901 coil = 86.3 T901 core = 77.0 AC inlet = 38.3 Metal enclosure = 41.7 Plastic enclosure outside near T901= 28.4 Panel = 32.9 SW901 body = 36.7 Button = 24.5 Ambient = 21.1	USB shutdown when loaded to 2.2A. No damage, no hazards.

Clause Requirement + Test Result - Remark Verdict USB fast charging Port Overload 264 2hrs F9901 0.444 Yes Max. measured temperature: T901 coil = 86.2 T901 core = 76.8 AC inlet = 38.2 Metal enclosure = 41.6 Plastic enclosure outside near T901 = 28.3 Panel = 32.8 SW901 body = 36.5 Button = 24.3 Ambient = 21.0 Test with construction 3 (power board 715G7300, main board 715G9494)					IEC	62368-1						
Charging	Clause		Requi	rement + 1	Test			Result - Remark	Verdict			
Ventilation openings Description openings Description openings Description openings	charging	overload	264	2hrs	F9901	0.444	Yes	temperature: T901 coil = 86.2 T901 core = 76.8 AC inlet = 38.2 Metal enclosure = 41.6 Plastic enclosure outside near T901= 28.3 Panel = 32.8 SW901 body = 36.5 Button = 24.3	shutdown when loaded to 2.4A. No damage,			
temperature:	Test with cons	struction 3 (power bo	ard 715G	7300, mai	n board 7	15G9494)				
temperature: T902 coil = 137.6 winding is T902 core = 127.2 loaded to AC inlet = 35.2 additional Metal enclosure = 1.9A. No 45.6 damage, no Plastic enclosure outside near T901= 30.2 Panel = 27.4		blocked	264	2hrs	F901	0.171	Yes	temperature: T902 coil = 76.9 T902 core = 73.4 AC inlet = 35.3 Metal enclosure = 40.1 Plastic enclosure outside near T901= 31.6 Panel = 32.5 Button = 28.5	hazards, no			
Test with construction 4 (power board 715GB004, main board 715GA987)	Vout output overload 264 4hrs F901 0.367 Yes Max. measured temperature: T902 coil = 137.6 T902 core = 127.2 AC inlet = 35.2 Metal enclosure = 45.6 Metal enclosure outside near T901= 30.2 Panel = 27.4 Button = 25.6											

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Clause	Requirement + Test	Result - Remark	Verdict

								II.
Ventilation openings	blocked	264	2hrs	F9901	0.554	Yes	Max. measured temperature: T9102 coil = 74.0 T9102 core = 69.0 AC inlet = 38.2 Metal enclosure = 39.6 Plastic enclosure outside near T9102= 33.6 Panel = 31.9 SW901 body = 36.9 Button = 17.7 Ambient = 17.0	Unit operated normally, no hazards, no damage.
+20V output	overload	264	4hrs	F9901	0.864	Yes	Max. measured temperature: T9102 coil = 96.9 T9102 core = 89.3 AC inlet = 39.3 Metal enclosure = 38.7 Plastic enclosure outside near T9102= 27.2 Panel = 27.9 SW901 body = 35.1 Button = 19.8 Ambient = 19.3	Before shutdown winding is loaded to additional 4.2A. No damage, no hazards.
USB 3.0 Port	overload	264	2hrs	F9901	0.587	Yes	Max. measured temperature: T9102 coil = 69.7 T9102 core = 64.5 AC inlet = 33.5 Metal enclosure = 32.2 Plastic enclosure outside near T9102= 22.3 Panel = 25.4 SW901 body = 29.7 Button = 19.0 Ambient = 17.5	USB shutdown when loaded to 3.0A. No damage, no hazards.

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Clause	Requirement + Test	Result - Remark	Verdict

USB fast charging Port	overload	264	2hrs	F9901	0.576	Yes	Max. measured temperature: T9102 coil = 67.2 T9102 core = 61.5 AC inlet = 31.5 Metal enclosure = 31.5 Plastic enclosure outside near T9102= 22.2 Panel = 25.3 SW901 body = 28.7 Button = 18.8 Ambient = 17.6	USB shutdown when loaded to 2.8A. No damage, no hazards.
USB type C port	overload	264	4hrs	F9901	0.730	Yes	Max. measured temperature: T9102 coil = 84.1 T9102 core = 75.3 AC inlet = 35.5 Metal enclosure = 35.5 Plastic enclosure outside near T9102= 26.3 Panel = 26.7 SW901 body = 31.9 Button = 18.3 Ambient = 19.6	USB shutdown when loaded to 5.0A. No damage, no hazards.

Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

B.4 TABLE: Fault condition tests											
Ambient temperature (°C)											
Power source	ce for EUT: N	Manufacturer, ı	model/type,	output rating	:	Se	e table 4.	1.2		_	
Componen t No.											
Test with po	ower board	715G7300							•		
BD901 pin 2-4	·								d instantly,		
C907	S-C	264	<1 sec	F901					Fuse For opener no haz	d instantly,	

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Clause		Requiren	nent + Test			Result - I	Remark	Verdict
Q901 pin G-S	S-C	264	5 mins	F901	0.04			Unit shut down, no hazard.
Q901 pin D-G	S-C	264	5 mins	F901	0.04			R928, Q901, U901 damaged, no hazards.
Q901 pin D-S	S-C	264	5 mins	F901	0.04			R931, Q901 damaged, no hazards.
U901 Pin 1 to Pin 5	s-c	264	5 mins	F901	0.04			Unit shut down, no hazard.
U901 Pin 2 to Pin 5	S-C	264	5 mins	F901	0.04			Unit shut down, no hazard.
U902 pin 1 - 2	S-C	264	5 mins	F901	0.04			Unit shut down, no hazard.
U902 pin 3 - 4	S-C	264	5 mins	F901	0.04			Unit shut down, no hazard.
U902 pin 1	O-C	264	5 mins	F901	0.04			Unit shut down, no hazard.
C916	s-c	264	5 mins	F901	0.04			Unit shut down, no hazard.
D901	S-C	264	5 mins	F901	0.04			Unit shut down, no hazard.
V _{out} output to earth	S-C	264	5 mins	F901	0.04			Unit shut down, no hazard.
One speaker	s-c	264	5 mins	F901	0.16			EUT operated normally except this speaker shut down.
T902 pin 1 to pin 2	S-C	264	5 mins	F901	0.03			Unit shut down, no hazard.
T902 pin 4 to pin 6	S-C	264	5 mins	F901	0.03			Unit shut down, no hazard.
T902 pin 7 to pin 10	S-C	264	5 mins	F901	0.03			Unit shut down, no hazard.
Tested with	power boa	rd 715G7610)					
BD9901 pin 2-3	s-c	264	<1 sec	F9901				Fuse open immediately, no hazards.

							Hazarus.
C901	s-c	264	<1 sec	F9901		 	Fuse open immediately, no hazards.
Q901 G-S	S-C	264	10 mins	F9901	0.03	 	EUT shut down, no hazards.

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Clause		Requiren	nent + Test			Result - F	Remark		Verdict	
Q901 G-D	s-c	264	10 mins	F9901	0.03				hut down, damage, zards.	
Q901 S-D	S-C	264	10 mins	F9901	0.03				hut down, damage, zards.	
R916	S-C	264	10 mins	F9901	0.37				al working, mage, no ds.	
U901 pin 4-1	S-C	264	10 mins	F9901	0.03				hut down, damage, no ds.	
U901 pin 4-6	S-C	264	10 mins	F9901	0.03				hut down, damage, no ds.	
U901 pin 4-2	S-C	264	10 mins	F9901	0.03				hut down, damage, no ds.	
T901 pin 1-2	S-C	264	10 mins	F9901	0.03				hut down, nage, no ds.	
T901 pin 3-5	S-C	264	10 mins	F9901	0.03				hut down, nage, no ds.	
T901 pin 6-8	S-C	264	10 mins	F9901	0.03				hut down, nage, no ds.	
U902 pin1- 2	S-C	264	10 mins	F9901	0.03				hut down, nage, no ds.	
U902 pin3- 4	S-C	264	10 mins	F9901	0.03				hut down, nage, no ds.	
U902 pin1	O-C	264	10 mins	F9901	0.03			no dar	EUT shut down, no damage, no hazards.	
U902 pin3	O-C	264	10 mins	F9901	0.03			EUT shut down, no damage, no hazards.		
D901	S-C	264	10 mins	F9901	0.37			no dar	Normal working, no damage, no hazards.	
C905	S-C	264	10 mins	F9901	0.03			EUT shut down, no damage, no hazards.		

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Clause		Requirem	nent + Test			Result - I	Remark		Verdict
One speaker	S-C	264	5 mins	F901	0.35			norma	perated Ily except eaker shut
Tested with	power boa	rd 715GB004	1	,					
BD9901 pin 1-4	S-C	264	<1 sec	F9901				Fuse of immed hazard	diately, no
C9801	s-c	264	<1 sec	F9901				Fuse of immed hazard	diately, no
C9920	s-c	264	<1 sec	F9901				Fuse of immed hazard	diately, no
Q9101 pin G-S	S-C	264	5 min	F9901	0.09				hut down, mage, no ds.
Q9101 pin G-D	s-c	264	<1 sec	F9901				Fuse of immed hazard	diately, no
Q9101 pin D-S	s-c	264	<1 sec	F9901				Fuse of immed hazard	diately, no
Q9102 pin G-S	s-c	264	5 min	F9901	0.09				hut down, mage, no ds.
Q9102 pin G-D	s-c	264	<1 sec	F9901				Fuse of immed hazard	diately, no
Q9102 pin D-S	s-c	264	<1 sec	F9901				Fuse of immed hazard	diately, no
Q9801 pin G-S	o-c	264	5 min	F9901	0.55			Unit working as normally. No damage No hazards	
Q9801 pin G-D	s-c	264	<1 sec	F9901				Fuse of immed hazard	diately, no
Q9801 pin D-S	S-C	264	<1 sec	F9901				Fuse open immediately, no hazards.	

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Clause	Requirement + Test	Result - Remark	Verdict				

D9801	S-C	264	5 min	F9901	0.55	 	Unit working as normally. No damage, no hazards
T9102 pin 2 to pin 4	S-C	264	5 min	F9901	0.09	 	EUT shut down, no damage, no hazards.
T9102 pin 6 to pin 7,8	S-C	264	5 min	F9901	0.09	 	EUT shut down, no damage, no hazards.
T9102 pin 7,8 to pin 9	S-C	264	5 min	F9901	0.09	 	EUT shut down, no damage, no hazards.
T9102 pin 12 to pin 13	S-C	264	5 min	F9901	0.12	 	EUT shut down, no damage, no hazards.
U9106 pin 1-2	s-c	264	5 min	F9901	0.55	 	Unit working as normally. No damage, no hazards.
U9106 pin 3-4	s-c	264	5 min	F9901	0.45	 	Unit working as normally. No damage, no hazards.
U9106 pin 1	0-C	264	5 min	F9901	0.55	 	Unit working as normally. No damage, no hazards.
U9802 pin 1-2	S-C	264	5 min	F9901	0.08	 	EUT shut down, no damage, no hazards.
U9802 pin 3-4	S-C	264	5 min	F9901	0.09	 	EUT shut down, no damage, no hazards.
U9802 pin 1	O-C	264	5 min	F9901	0.08	 	EUT shut down, no damage, no hazards.
D9104	S-C	264	5 min	F9901	0.09	 	EUT shut down, no damage, no hazards.
D9105	S-C	264	5 min	F9901	0.09	 	EUT shut down, no damage, no hazards.

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Clause	Requirement + Test	Result - Remark	Verdict				

D801	S-C	264	5 min	F9901	0.12	 	EUT shut down, no damage, no hazards.
+20V output to earth	S-C	264	5 min	F9901	0.09	 	EUT shut down, no damage, no hazards.

- 1) In fault column, where s-c=short-circuited, o-c=open-circuited.
- 2) For fuse opened conditions were tested with each source of fuse.
- 3) For component damaged conditions have been repeated twice (three tests total) with same result.

Annex M T	TABLE: Batteries									
The tests of Annex M are applicable only when appropriate battery data is not available										
Is it possible to install the battery in a reverse polarity position?:										
	Non-rechargeable batteries Rechargeable batteries									
	Disch	arging	Un-	Chai	rging	Discha	arging	Reverse	d charging	
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	
Max. current during normal condition										
Max. current during fault condition										
Test results:									Verdict	
- Chemical lea	aks									
- Explosion of the battery										
- Emission of flame or expulsion of molten metal										
- Electric strength tests of equipment after completion of tests										
Supplementar	Supplementary information:									

Annex M.4	.4 Table: Additional safeguards for equipment containing secondary lithium N/A batteries									
Battery/Cell		Test conditions	Measurements			Observation				
N	lo.		U	I (A)	Temp (C)					
Normal		Normal								
Abnormal										
		Single fault –SC/OC								

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	Normal								
Abnormal									
	Single fau	lt – SC/OC							
Supplementary In	nformation:								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$									
Supplementary In	nformation:				•				

Annex Q.1	TABLE: Circu	its inter	nded for inter	connection wi	th building wiri	ing (LPS)	Р
Note: Measu	red UOC (V) wit	h all loa	d circuits disc	onnected:			•
Output	Componer	nts	U _{oc} (V)	Iso	: (A)	S	(VA)
Circuit				Meas.	Limit	Meas.	Limit
V _{out} output	on power board	715G73	300				
See above	Normal condition	n	18.2	2.2	8	36.6	100
See above	R931	s-c	18.7	1.8	8	32.1	100
See above	U903 A-K	s-c	0 ^{2.}	0 ^{2.}	8	0 ^{2.}	100
See above	R932	s-c	0 ^{2.}	0 ^{2.}	8	0 ^{2.}	100
See above	U902 Pin 1-2	s-c	0 ^{2.}	0 ^{2.}	8	0 ^{2.}	100
See above	U902 Pin 1	O-C	0 ^{2.}	0 ^{2.}	8	0 ^{2.}	100
+19V output	on power boar	d 715G	7610	1			
See above	Normal condition	n	19.0	4.5	8	84	100
See above	U902 pin 1-2	s-c	0 ^{2.}	0 2.	8	0 ^{2.}	100
See above	U902 pin 3-4	s-c	0 ^{2.}	0 2.	8	0 ^{2.}	100
See above	R916	s-c	0 ^{2.}	0 2.	8	0 ^{2.}	100
See above	R928	s-c	0 ^{2.}	0 ^{2.}	8	0 ^{2.}	100
+20V output	on power boar	d 715G	B004		•		
See above	Normal condition	n	19.2	9.9	52.1 (40)	183.0	250
Circuit outp	ut tested: data	ports o	n main board	715G9494	•		
VGA (CN101) pin 9 to GND	Normal cond	lition	4.8	0.9	8	3.0	100
See above	ZD105 s-	С	0 ^{2.}	0 2.	8	0 ^{2.}	100
See above	D101 Pin 1-2	2 s-c	4.8	3.6	8	3.7	100
			1				1

		I	EC 62368-1			
Clause	Require	ment + Test		Result	Verdict	
See above	D101 Pin 1-3 s-c	4.8	0.7	8	2.8	100
VGA (CN101) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
HDMI (CN501) pin 18 to GND	Normal condition	5.3	0.4	8	1.9	100
See above	C503 s-c	0 2.	0 2.	8	0 ^{2.}	100
See above	R509 s-c	5.3	0.4	8	1.8	100
HDMI (CN501) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
DVI (CN102) pin 14 to GND	Normal condition	5.1	0.59	8	2.16	100
See above	ZD107 s-c	0 ^{2.}	0 ^{2.}	8	0 2.	100
See above	C155 s-c	0 2.	0 2.	8	0 ^{2.}	100
DVI (CN103) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Audio input port CN601 all pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Audio input port CN602 all pins to GND	Normal condition	4.6	0 (can't loaded)	8	0 (can't loaded)	100
Audio input port CN602 other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Circuit outpo	ut tested: data ports o	n main board	715G9483			
VGA (CN101) pin 9, 12, 15 to GND	Normal condition	4.8	0.9	8	3.0	100
See above	ZD105 s-c	0 2.	0 2.	8	0 2.	100

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Clause	Require	ment + Test	LC 02300-1	Result	t - Remark	Verdict
Oladoc	- Toquiro	THORE I TOSE		Ttooun	Verdict	
See above	D110 Pin 1-3 s-c	4.8	3.6	8	3.7	100
See above	D110 Pin 2-3 s-c	4.8	0.7	8	2.8	100
VGA (CN101) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
DVI (CN102) pin 14 to GND	Normal condition	5.1	0.59	8	2.24	100
See above	ZD155 s-c	0 ^{2.}	0 ^{2.}	8	0 2.	100
DVI (CN103) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
HDMI (CN501) pin 18 to GND	Normal condition	5.3	0.03	8	0.28	100
See above	R509 s-c	5.0	0.41	8	1.68	100
See above	C503 s-c	0 ^{2.}	0 ^{2.}	8	0 ^{2.}	100
HDMI (CN501) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
DP (CN503) pin 20 to GND	Normal condition	3.3	1.3	8	4.63	100
See above	U541 Pin 3-2 s-c	0 ^{2.}	0 ^{2.}	8	0 ^{2.}	100
See above	C541 s-c	0 ^{2.}	0 ^{2.}	8	0 ^{2.}	100
DP (CN501) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Audio input port CN601 all pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Audio input port CN602 all pins to GND	Normal condition	4.6	0 (can't loaded)	8	0 (can't loaded)	100

		II	EC 62368-1			
Clause	Requirer	ment + Test		Result -	Remark	Verdict
Audio input port CN602 other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Circuit outp	ut tested: data ports o	n main board	715GA987			
USB (CN5901) pin 1 to GND	Normal condition	5.1	3.5	8	11.1	100
See above	C5980 s-c	0 2.	0 ^{2.}	8	0 ^{2.}	100
USB (CN5901) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
USB (CN5902) pin 1 to GND	Normal condition	5.1	2.9	8	10.0	100
See above	C5960 s-c	0 ^{2.}	0 ^{2.}	8	0 2.	100
USB (CN5902) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
USB type C (CN593) pin 1 to GND	Normal condition	19.9	7.0	8	96.0	100
See above	C5811 s-c	0 ^{2.}	0 ^{2.}	8	0 2.	100
USB type C (CN593) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
HDMI (CN501) pin 18 to GND	Normal condition	5.3	0.3	8	1.4	100
See above	R509 s-c	5.0	0.4	8	1.8	100
See above	C503 s-c	0 2.	0 2.	8	0 ^{2.}	100
HDMI (CN501) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100

		II	EC 62368-1			
Clause	Require	ment + Test		Result	- Remark	Verdict
HDMI (CN502) pin 18 to GND	Normal condition	5.0	0.3	8	1.4	100
See above	C522 s-c	0 ^{2.}	0 2.	8	0 2.	100
See above	R530 s-c	5.0	0.4	8	1.8	100
HDMI (CN501) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
DP (CN503) pin 20 to GND	Normal condition	3.3	0.04	8	0.28	100
See above	U541 Pin 3-2 s-c	0 2.	0 ^{2.}	8	0 ^{2.}	100
See above	C541 s-c	0 ^{2.}	0 ^{2.}	8	0 ^{2.}	100
DP (CN501) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Audio input port CN605 all pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Circuit outpo	ut tested: data ports o	n main board	715G9496			
VGA (CN101) pin 9 to GND	Normal condition	4.8	0.9	8	3.0	100
See above	ZD105 s-c	0 ^{2.}	0 ^{2.}	8	0 2.	100
See above	D101 Pin 1-2 s-c	4.8	3.6	8	3.7	100
See above	D101 Pin 1-3 s-c	4.8	0.7	8	2.8	100
VGA (CN101) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
HDMI (CN501) pin 18 to GND	Normal condition	5.3	0.4	8	1.9	100
See above	C503 s-c	0 2.	0 ^{2.}	8	0 ^{2.}	100
See above	R509 s-c	5.3	0.4	8	1.8	100

		I	EC 62368-1			
Clause	Require	ment + Test		Result -	- Remark	Verdict
HDMI (CN501) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
DP (CN503) pin 20 to GND	Normal condition	3.3	1.3	8	4.6	100
See above	U544 Pin 3-2 s-c	0 2.	0 ^{2.}	8	0 2.	100
See above	C544 s-c	0 2.	0 ^{2.}	8	0 ^{2.}	100
DP (CN501) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Audio input port CN601 all pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Audio input port CN602 all pins to GND	Normal condition	4.6	0 (can't loaded)	8	0 (can't loaded)	100
Audio input port CN602 other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Circuit outpu	ut tested: data ports or	n main board	715G9485			
VGA (CN101) pin 9 to GND	Normal condition	4.8	0.9	8	3.0	100
See above	ZD104 s-c	0 2.	0 2.	8	0 2.	100
See above	D101 Pin 1-3 s-c	4.8	3.6	8	3.7	100
See above	D101 Pin 2-3 s-c	4.8	0.7	8	2.8	100
VGA (CN101) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
HDMI (CN501) pin 18 to GND	Normal condition	5.3	0.3	8	1.4	100
See above	R509 s-c	5.0	0.40	8	1.80	100

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Clause	Requirement + Test	Result - Remark	Verdict

See above	C503 s-c	0 ^{2.}	0 ^{2.}	8	0 2.	100
HDMI (CN501) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
HDMI (CN502) pin 18 to GND	Normal condition	5.3	0.3	8	1.4	100
See above	R530 s-c	5.0	0.40	8	1.80	100
See above	C522 s-c	0 ^{2.}	0 ^{2.}	8	0 ^{2.}	100
HDMI (CN502) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
DP (CN503) pin 20 to GND	Normal condition	3.3	0.04	8	0.28	100
See above	U541 Pin 3-2 s-c	0 ^{2.}	0 ^{2.}	8	0 ^{2.}	100
See above	C541 s-c	0 ^{2.}	0 ^{2.}	8	0 ^{2.}	100
DP (CN501) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Audio input port CN601 all pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Audio input port CN602 all pins to GND	Normal condition	4.6	0 (can't loaded)	8	0 (can't loaded)	100
Audio input port CN602 other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Circuit outp	ut tested: data ports o	n USB board 7	′15GB017			
USB 3.0 (CN7002) pin 1 to GND	Normal condition	5.1	3.0	8	9.6	100

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Clause	Requirement + Test	Result - Remark	Verdict

USB 3.0 (CN7002) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
USB fast charging (CN7003) pin 1 to GND	Normal condition	5.1	3.6	8	11.6	100
USB fast charging (CN7003) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
USB 3.0 (CN7004) pin 1 to GND	Normal condition	5.1	3.0	8	9.6	100
USB 3.0 (CN7004) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
Circuit outp	ut tested: data ports o	n USB board 7	15GB001			
USB 3.0 (CN7202) pin 1 to GND	Normal condition	5.1	3.5	8	11.1	100
See above	C7201 s-c	0 2.	0 ^{2.}	8	0 ^{2.}	100
USB 3.0 (CN7202) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100
USB 3.0 (CN7203) pin 1 to GND	Normal condition	5.1	3.5	8	11.1	100
See above	C7202 s-c	0 ^{2.}	0 ^{2.}	8	0 ^{2.}	100
USB 3.0 (CN7203) other pins to GND	Normal condition	0 (can't loaded)	0 (can't loaded)	8	0 (can't loaded)	100

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Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:

- 1. Input Voltage is 264Vac, 60Hz. s-c=short circuit, o-c=open circuit.
- 2. Unit shut down.
- 3. +20V output of power board 715GB004 protected by fuses that will break the circuit within 120s with a current equal to 210%. Current limit of table 2C reduced to breaking capacity of the fuse (40A).

T.2, T.3, T.4, T.5	TABI	E: Steady force to	est				Р
Part/Locat	tion	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Obser	vation
Interna compone	-			10	5	The clearand creepage distance the required	stances do ced below
External pla enclosur		See table 4.1.2	See table 4.1.2	250	5	All safeguar remained ef	
Internal menclosur		See table 4.1.2	See table 4.1.2	30	5	All safeguar remained ef	
Supplement	ary inf	ormation:			'		

T.6, T.9	TAB	LE: Impact tests				Р
Part/Location	on	Material	Thickness (mm)	Vertical distance (mm)	Observation	
External pla		See table 4.1.2	See table 4.1.2	1300	All safeguards remained effect	tive.
Supplementa	ry info	ormation:				

T.7 TABLE: Drop tests						N/A
Part/Locati	on	Material	Thickness (mm)	Drop Height (mm)	Observation	
Supplementa	ary inf	ormation:				

T.8	TABLE: Stress relief test						Р
Part/Locati	ion	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observ	ation
Whole un	nit	See table 4.1.2	See table 4.1.2	70	7	All safeguards effective.	remained
Supplementa	ary inf	ormation:					

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Clause	Re	equirement + Test	Result - Remark	Verdict
6.4.8.3.3, Table: enclosure openings 6.4.8.3.4 & P.2.2				Р
Location	·	Size (mm)	Comments	
External plast	ic enclosure			
Тор		No opening.		
Rear		Numerous rectangle openings: 2.0mm x 10.0mm	Openings are covered by internal enclosure.	l metal
Left		No opening.		
Right		No opening.		
Bottom				
	enclosure typ orientation, b)		d on bottom), c) at vertical orientation	on (main
a) Top b) Left c) Right		1) Two rectangle openings above main board: 19.8mm x 9.3mm, 11.0mm x 11.0mm;	1)-2) No hazardous part within vertical projection of 5° from the opening.3) Openings do not exceed 5mm in any dimension. No hazards.	
		2) One rectangle opening above USB board: 25.0mm x 15.6mm;	allionoion. No nazardo.	
		3) Numerous Ø1.7mm holes; spacing of holes (centre to centre): min. 3.5 mm; thickness of metal: min.0.81mm		
a) / b) / c) Rear		1) Numerous circle openings: Max. Ø3.8mm;	1) Openings do not exceed 5mm dimension. No hazards.	
		2) Two rectangle openings near main board: 27.3mm x 14.0mm; 35.3mm x 26.8mm;	2)-3) Protected by plastic enclosu	re.
		3) One rectangle opening near USB board: 25.0mm x 17.5mm		

Measurement Section



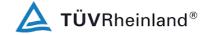
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Clause	Re	quirement + Test	Result - Remark	Verdict		
a) Left (main board side) b) Bottom c) Top		1) One rectangle opening near main board: 27.3mm x 13.0mm. 2) Numerous Ø1.7mm holes on internal metal sheet near power board; spacing of holes (centre to centre): min. 3.5 mm; thickness of metal: min.0.81mm	1) Protected by plastic enclosure. is supplied by PS2 and use min. Not required for fire enclosure. 2) Openings fulfill the requirement enclosure. No hazards.	/-1 PCB,		
a) Right b) Top c) Bottom		Numerous Ø1.7mm holes near power board; spacing of holes (centre to centre): min. 3.3 mm; thickness of metal: min.0.81mm	Openings do not exceed 5mm in dimension and also fulfill the requ fire enclosure. No hazards.	•		
a) Bottom b) Right c) Left		1) Under power board: numerous Ø1.7mm holes; spacing of holes (centre to centre): min. 3.5 mm; thickness of metal: min.0.81mm 2) Under main board: one rectangle opening near main board: 13.4mm x 11.5mm.	 Openings do not exceed 5mm in any dimension and also fulfill the requirement of fire enclosure. No hazards. Protected by plastic enclosure. Main boar is supplied by PS2 and use min. V-1 PCB, not required for fire enclosure. 			
Internal met	al enclosure type	e B				
Тор		1) Two rectangle openings above main board: 19.8mm x 9.3mm, 11.0mm x 11.0mm; 2) Numerous Ø1.7mm holes; spacing of holes (centre to centre): min. 3.5 mm; thickness of metal: min.0.81mm	No hazardous part within vertical projection of 5° from the opening. Openings do not exceed 5mm in any dimension. No hazards.			
Rear		 Numerous circle openings: Max. Ø4.0mm; Two rectangle openings near main board: 27.3mm x 14.0mm; 35.3mm x 26.8mm; 	Openings do not exceed 5mm dimension. No hazards. Protected by plastic enclosure.			
Left (main bo	ard side)	One rectangle opening near main board: 27.3mm x 13.0mm.	Protected by plastic enclosure.			

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Clause	Re	equirement + Test	Result - Remark	Verdict			
Right		Numerous Ø1.7mm holes near power board; spacing of holes (centre to centre): min. 3.3 mm; thickness of metal: min.0.81mm	Openings do not exceed 5mm in a dimension. No hazards.	any			
Bottom		Numerous Ø1.7mm holes under power board; spacing of holes (centre to centre): min. 3.5 mm; thickness of metal: min.0.81mm.	Openings do not exceed 5mm in any dimension and also fulfill the requirement fire enclosure. No hazards.				
	al enclosure typ						
a) at horizont board on top)		at vertical orientation (main board	d on bottom), c) at vertical orientation	on (main			
a) Top b) Left c) Right		Numerous Ø1.7mm holes; spacing of holes (centre to centre): min. 3.5 mm; thickness of metal: min.0.81mm	Openings do not exceed 5mm in any dimension. No hazards.				
a) / b) / c) Rear		 Numerous circle openings near main board: Max. Ø3.8mm; One rectangle opening near main board: 55.0mm x 19.1mm 	 Openings do not exceed 5mm in any dimension. No hazards. Protected by plastic enclosure. 				
a) Left (main board side) b) Bottom c) Top		 One rectangle opening near main board: 55.0mm x 6.6mm Numerous Ø1.7mm holes on internal metal sheet near power board; spacing of holes (centre to centre): min. 3.5 mm; thickness of metal: min.0.81mm 	is supplied by PS2 and use min. V-1 I not required for fire enclosure. 2) Openings fulfill the requirement of the enclosure. No hazards.				
a) Right b) Top c) Bottom		Numerous Ø1.7mm holes near power board; spacing of holes (centre to centre): min. 3.5 mm; thickness of metal: min.0.81mm	r Openings do not exceed 5mm in any dimension and also fulfill the requirement fire enclosure. No hazards.				
a) Bottom b) Right c) Left		Numerous Ø1.7mm holes under power board; spacing of holes (centre to centre): min. 3.5 mm; thickness of metal: min.0.81mm.	Openings do not exceed 5mm in a dimension and also fulfill the requ fire enclosure. No hazards.	•			

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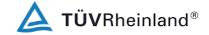
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Clause	Requirement + Test	Result - Remark	Verdict

G.5.3.2	TABLE: transformers	on power	board 715	G7300			Р
Loc.	Tested insulation	Working voltage peak / V	Working voltage rms / V	Required electric strength	Required clearance / mm (2.10.3)	Required creepage distance / mm (2.10.4)	Required distance thr. insul.
T902	Input terminal to output winding (RI)	550	250	AC 3000V	6.6	6.6	Min. 2 layers tape
T902	Input terminal to output terminal (RI)	550	250	AC 3000V	6.6	6.6	Min. 2 layers tape
T902	Input winding to output winding (RI)	550	250	AC 3000V	6.6	6.6	Min. 2 layers tape
T902	Input winding to output terminal (RI)	550	250	AC 3000V	6.6	6.6	Min. 2 layers tape
T902	Output winding to Core (BI)	550	250	AC 3000V	6.6	6.6	Min. 2 layers tape
T902	Output terminal to Core (BI)	550	250	AC 3000V	6.6	6.6	Min. 2 layers tape
Loc.	Tested insulation			Test voltage/ V	Measured clearance / mm	Measured creepage dist./ mm	Measured distance thr. insul. / mm; number of layers
T902	Input terminal to output winding (RI)			AC 3000V	Triple insulated wire used for secondary	Triple insulated wire used for secondary	
T902	Input terminal to output terminal (RI)			AC 3000V	29.0	29.0	
T902	Input winding to output winding (RI)		AC 3000V	Triple insulated wire used for secondary	Triple insulated wire used for secondary		
T902	Input winding to output terminal (RI)			AC 3000V	8.0	8.0	
T902	Output terminal to Core (BI)			AC 3000V	11.1	11.1	

Measurement Section

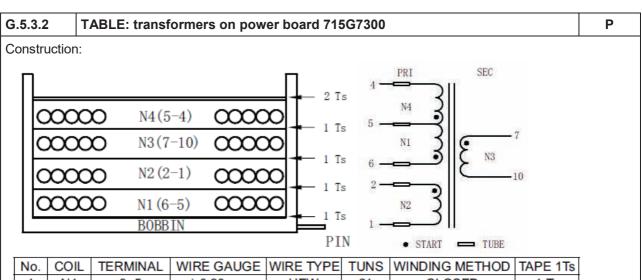


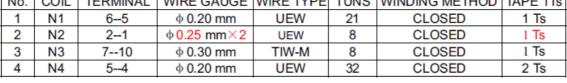
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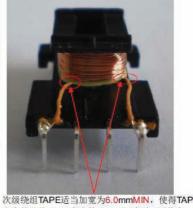
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	IEC 62368-1							
Clause	Requirement + Test		Result - Ren	nark	Verdict			
T902	Output winding to Core (BI)	AC 3000V	Triple insulated wire used for secondary	Triple insulated wire used for secondary	,			

Supplementary information: All sources of transformer were checked with same construction.









次级绕组TAPE适当加宽为6.0mmMIN,使得TAPE向三层线 方向偏移约TAPE宽度的1/4~1/5贴到三层线上 初级线圈与三层线交叉处不接触

Concentric windings on bobbin (horizontal type core). Two layers of insulation tape around the outer winding and the outer winding is primary. Triple insulated wire used for secondary. The core is considered as primary part.

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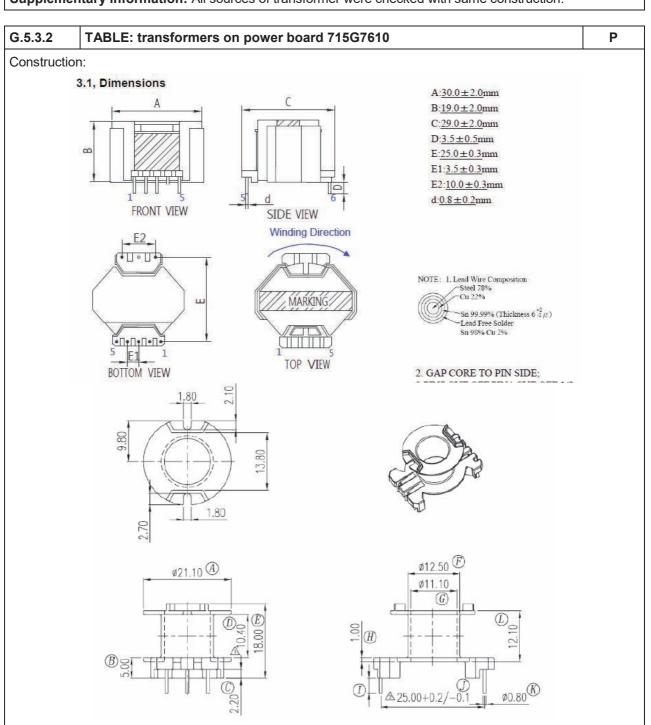
	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict

G.5.3.2	TABLE: transformers	on power	board 715	G7610			Р
Loc.	Tested insulation	Working voltage peak / V	Working voltage rms / V	Required electric strength	Required clearance / mm	Required creepage distance / mm	Required distance thr. insul.
T901	Input terminal to output winding (RI)	(2.10.2) 494	256	(5.2) AC 3000V	6.6	6.6	(2.10.5) Min. 2 layers tape
T901	Input terminal to output terminal (RI)	494	256	AC 3000V	6.6	6.6	Min. 2 layers tape
T901	Input winding to output winding (RI)	494	256	AC 3000V	6.6	6.6	Min. 2 layers tape
T901	Input winding to output terminal (RI)	494	256	AC 3000V	6.6	6.6	Min. 2 layers tape
T901	Output winding to Core (BI)	494	256	AC 3000V	6.6	6.6	Min. 2 layers tape
T901	Output terminal to Core (BI)	494	256	AC 3000V	6.6	6.6	Min. 2 layers tape
Loc.	Tested insulation			Test voltage/ V	Measured clearance / mm	Measured creepage dist./ mm	Measured distance thr. insul. / mm; number of layers
T901	Input terminal to output winding (RI)			AC 3000V	Triple insulated wire used for secondary	Triple insulated wire used for secondary	
T901	Input terminal to output terminal (RI)			AC 3000V	24.5	24.5	
T901	Input winding to output winding (RI)			AC 3000V	Triple insulated wire used for secondary	Triple insulated wire used for secondary	
T901	Input winding to output terminal (RI)			AC 3000V	7.0	7.0	
T901	Output terminal to Core (BI)			AC 3000V	6.8	6.8	

Measurement Section



IEO 00000				50337660 001				
IEC 62368-7	IEC 62368-1							
Clause Requirement + Test		Result - Ren	nark	Verdict				
T901 Output winding to Core (BI)	AC 3000V	Triple insulated wire used for secondary	Triple insulated wire used for secondary					



Measurement Section

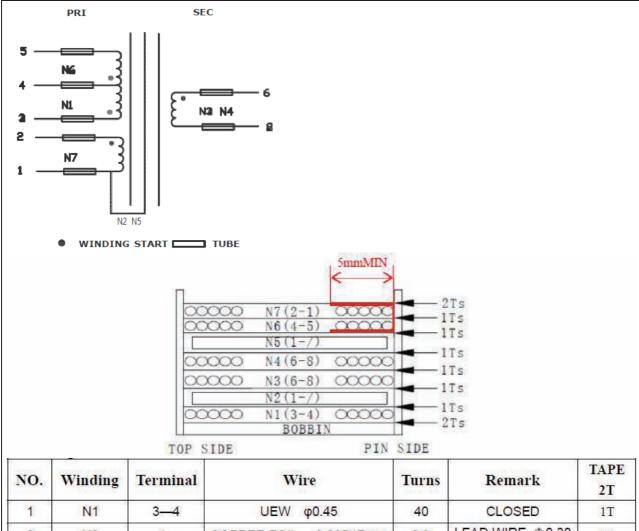


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	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict

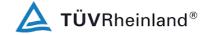


NO.	Winding	Terminal	Wire	Turns	Remark	TAPE 2T
1	N1	3—4	UEW φ0.45	40	CLOSED	1T
2	N2	1	COPPER FOIL 0.025t*7mm	0.9	LEAD WIRE ⊕0.30	1T
3	N3	6—8	TIW-M φ0. 55	12	CLOSED	1T
4	N4	6—8	TIW-M φ0.55	12	CLOSED	1T
5	N5	1	COPPER FOIL 0.025t*7mm	0.9	LEAD WIRE ⊕0.30	1T
6	N6	4—5	UEW φ0.45	21	CLOSED	1T
7	N7	21	UEW φ0.30	10	SPRAED	2TS

Concentric windings on bobbin (horizontal type core). Two layers of insulation tape around the outer winding and the outer winding is primary. Triple insulated wire used for secondary. The core is considered as primary part. Tube used for all primary and secondary winding leads.

Clause

Measurement Section



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IEC 62368-1		
Requirement + Test	Result - Remark	Verdict

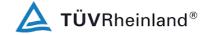
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G.5.3.2	TABLE: transformers	on power	board 7150	GB004			Р
Loc.	Tested insulation	Working voltage peak / V (2.10.2)	Working voltage rms / V (2.10.2)	Require d electric strength	Required clearance / mm (2.10.3)	Required creepage distance / mm (2.10.4)	Required distance thr. insul. (2.10.5)
T9102	Primary winding to secondary terminal	441	268	AC 3000V	6.3	6.3	Min. 2 layers tape
T9102	Primary winding to secondary winding	441	268	AC 3000V	6.3	6.3	Min. 2 layers tape
T9102	Primary winding to core	441	268	AC 3000V	6.3	6.3	Min. 2 layers tape
T9102	Primary terminal to secondary terminal	441	268	AC 3000V	6.3	6.3	Min. 2 layers tape
T9102	Primary terminal to secondary winding	441	268	AC 3000V	6.3	6.3	Min. 2 layers tape
T9102	Primary terminal to core	441	268	AC 3000V	6.3	6.3	Min. 2 layers tape
Loc.	Tested insulation	Tested insulation			Measured clearance / mm	Measured creepage dist./ mm	Measured distance thr. insul. / mm; number of layers
T9102	Primary winding to seco	ondary term	inal	AC 3000V	7.2	7.2	Triple insulated wire used for N2
T9102	Primary winding to seco	ondary wind	ing	AC 3000V	7.5	7.5	Triple insulated wire used for N2
T9102	Primary winding to core		AC 3000V	7.5	7.5	Triple insulated wire used for N2	
T9102	Primary terminal to sec	Primary terminal to secondary terminal		AC 3000V	42.5	42.5	
T9102	Primary terminal to sec	ondary wind	ling	AC 3000V	8.9	8.9	
T9102	Primary terminal to core	e		AC 3000V	9.0	9.0	

supplementary information:

- 1. The required clearances multiplied by 1.48 considering that EUT operates up to 5000m.
- 2. Core is considered as secondary.

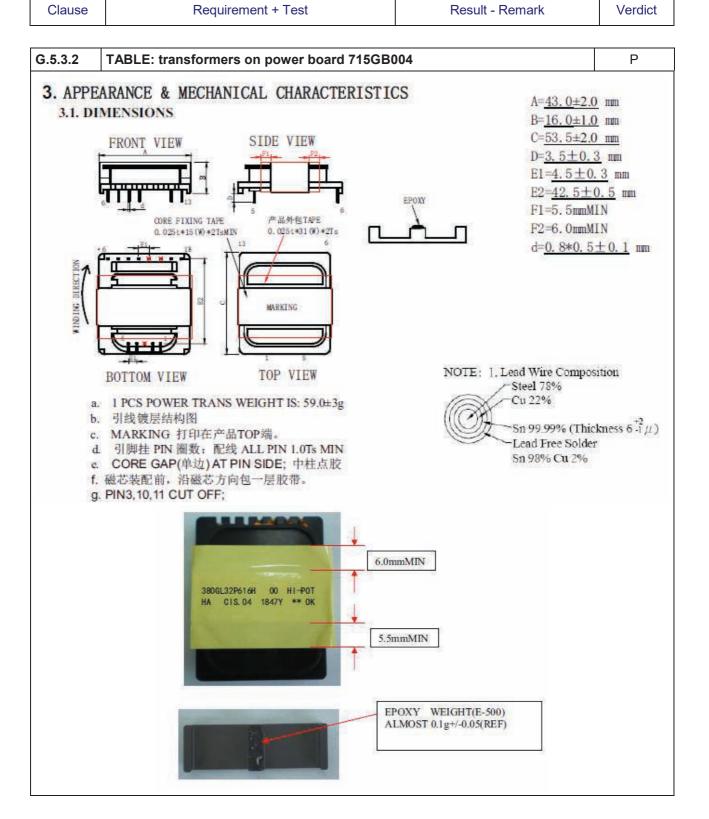
Measurement Section



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Measurement Section

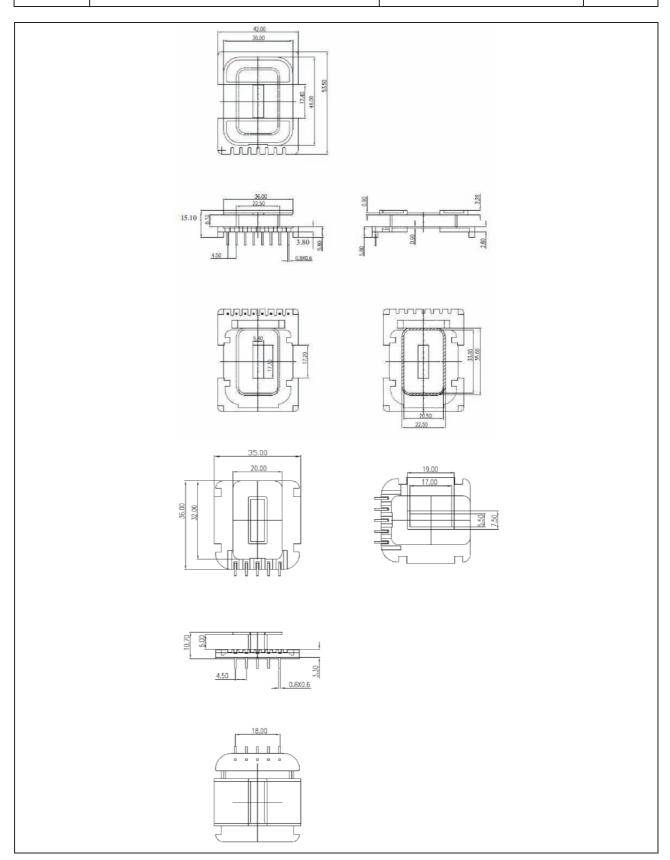


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Clause	Requirement + Test	Result - Remark	Verdict	



Clause

Measurement Section

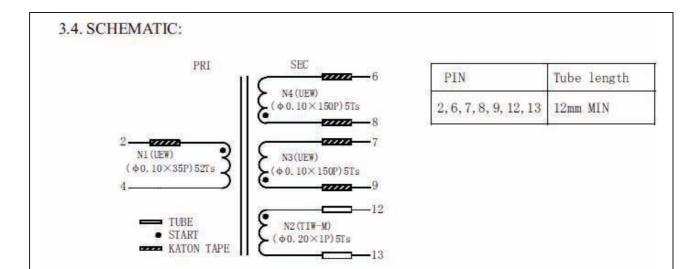


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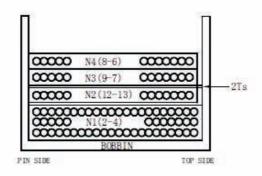
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IEC 62368-1		
Requirement + Test	Result - Remark	Verdict

Report No.:



3.5. WINDING CONSTRUCTION:



- . Note:
- 1.) PIN2,6,7,8,9,12,13 ADDED TUBE/TAPE,
- 2.) TUBE/TAPE over winding 2.5mm min

3.6. WINDING MODE:

No.	COIL	TERMINAL	WIRE GAUGE	WIRE	TUNS	WINDING METHOD	TAPE
1	N1	2-4	ф0.10mm×35	UEW	52	CLOSE	1
2	N2	12-13	ф0.20mm	TIW-M	5	CLOSE	2Ts
3	N3	9-7	ф 0.10mm×150	UEW	5	CLOSE	39
4	N4	8-6	φ 0.10mm×150	UEW	5	CLOSE	1

Concentric windings on bobbin (horizontal type core). Coils N1, N2 are for primary, and coils N3, N4 are for secondary. Triple insulated wire used for primary coil N1. The core is considered as secondary part.

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IEC62368_1B - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

	CENELEC O	OMMON MO	DIFICATION	NS (EN)				
		oclauses, notes 62368-1:2014			exe	s which are a	additional to	
CONTENTS	Add the following annexes: Annex ZA (normative) Annex ZB (normative) Annex ZC (informative) Annex ZD (informative) Annex ZD (informative) Annex ZD (informative) Annex ZD (informative) Are deviations IEC and CENELEC code designations for flexible cords Delete all the "country" notes in the reference document (IEC 62368-1:2014)			Р				
	according to	Delete all the "country" notes in the reference document (IEC 62368-1:2014) according to the following list:				Р		
	0.2.1	Note	1	Note 3		4.1.15	Note	
	4.7.3	Note 1 and 2	5.2.2.2	Note		5.4.2.3.2.2 Table 13	Note c	
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2		5.4.5.1	Note	
	5.5.2.1	Note	5.5.6	Note		5.6.4.2.1	Note 2 and 3	
	5.7.5	Note	5.7.6.1	Note 1 and	2	10.2.1 Table 39	Note 2, 3 and 4	
	10.5.3	Note 2	10.6.2.1	Note 3		F.3.3.6	Note 3	
	For special r	national conditi	ons, see Ar	nex ZB.				Р
1		wing note: use of certain subs ment is restricted v			Ad	ded.		Р



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	IEC62368_1B - ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
4.Z1	Add the following new subclause after 4.9: 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 aguinment or as parts of the	Added.	Р
	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.		
5.4.2.3.2.4	Add the following to the end of this subclause: The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	Added.	N/A
10.2.1	Add the following to ^{c)} and ^{d)} in table 39: For additional requirements, see 10.5.1.	No such radiation from the equipment.	N/A
10.5.1	Add the following after the first paragraph:	LED indicator used.	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 presets 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		



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Requirement + Test	Result - Remark	Verdict		
adequate locking.				
taking account of the background level.				
Add the following paragraph to the end of the subclause: EN 71-1:2011, 4.20 and the related tests methor and measurement distances apply.	No such x-radiation generated from the equipment.	N/A		
Add the following new subclause after 10.6.5. 10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	No such consideration for the purpose of personal music players.	N/A		
by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of	of			
be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For ha	and-			
Add the following note: NOTE Z1 The harmonized code designations correspondi the IEC cord types are given in Annex ZD.	ng to	Р		
Add the following standards:		Р		
	IEC 60309-1 NOTE Harmonized as EN 60309-1.			
•				
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cr at any point 10 cm from the outer surface of the apparatus. Moreover, the measurement shall be made und 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. taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom 13 May 1996. Add the following paragraph to the end of the subclause: EN 71-1:2011, 4.20 and the related tests method and measurement distances apply. Add the following new subclause after 10.6.5. 10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz The amount of non-ionizing radiation is regulate by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation exposure of the general public to electromagneticlds (0 Hz to 300 GHz). For intentional radiators, ICNIRP guidelines she be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hald and body-mounted devices, attention is dread to EN 50360 and EN 50566 Add the following note: NOTE Z1 The harmonized code designations corresponding the IEC cord types are given in Annex ZD. Add the following standards: Add the following notes for the standards indicated the following notes for the	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. Add the following paragraph to the end of the subclause: EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply. Add the following new subclause after 10.6.5. 10.21 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). For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For handheld and body-mounted devices, attention is drawn to EN 50360 and EN 50566 Add the following note: NOTE 21 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD. Add the following standards: Add the following standards: Add the following notes for the standards indicated: IEC 60130-9 NOTE Harmonized as EN 60130-9. IEC 60269-2 NOTE Harmonized as EN 60309-1. IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 series.		

IEC IECEE

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		IEC62368_1B - ATTACHME	ENT				
Clause	Requirement + Te	est	Result - Remark	Verdict			
	IEC 61032:1997	NOTE Harmonized as EN 6103	2:1998 (not modified).				
	IEC 61508-1	NOTE Harmonized as EN 6150	,				
	IEC 61558-2-1	NOTE Harmonized as EN 6155	8-2-1.				
	IEC 61558-2-4	IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4.					
	IEC 61558-2-6	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6.					
	IEC 61643-1	NOTE Harmonized as EN 6164	3-1.				
	IEC 61643-21	NOTE Harmonized as EN 6164	3-21.				
	IEC 61643-311	NOTE Harmonized as EN 6164	3-311.				
	IEC 61643-321						
	IEC 61643-331	NOTE Harmonized as EN 6164	3-331.				
ZB	ANNEX ZB, SPE	CIAL NATIONAL CONDITIONS	(EN)	Р			
4.1.15	· ·	d, Norway and Sweden	See copy of marking plate.	Р			
	To the end of the subclause the following is added:						
	safety relies on co surge suppressor network terminals marking stating th connected to an e The marking text	er equipment or a network shall, if connection to reliable earthing or if it is are connected between the and accessible parts, have a lat the equipment shall be earthed mains socket-outlet. In the applicable countries shall					
	stikkontakt med jo stikproppens jord In Finland : "Laite	on liitettävä suojakoskettimilla					
	varustettuun pistorasiaan" In Norway : "Apparatet må tilkoples jordet stikkontakt"						
		araten skall anslutas till jordat					
4.7.3	United Kingdom		The equipment is not direct plug-in equipment.	N/A			
	To the end of the	To the end of the subclause the following is added:					
	complying with BS	performed using a socket-outlet 6 1363, and the plug part shall be elevant clauses of BS 1363. Also of this annex					
5.2.2.2	Denmark		No high touch current.	N/A			
	After the 2nd para	graph add the following:					
		ng safeguard) for high touch d if the touch current exceeds					

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IEC62368_1B - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
	the limits of 3,5 mA a.c. or 10 mA d.c.			
5.4.11.1 and Annex G	Finland and Sweden	No TNV circuits.	N/A	
	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			
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV.			
	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.			



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	IEC62368_1B - ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
5.5.2.1	Norway 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).	Considered.	Р
5.5.6	Finland, Norway and Sweden 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.	No such resistors.	N/A
5.6.1	Denmark Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	Considered.	P
5.6.4.2.1	Ireland and United Kingdom 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.	Considered.	Р
5.6.5.1	To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is: 1,25 mm² to 1,5 mm² in cross-sectional area.	Rated current not exceed 10A.	N/A
5.7.5	Denmark 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.	No high protective conductor current.	N/A
5.7.6.1	Norway and Sweden To the end of the subclause the following is added: The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding	Not such system.	N/A



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	IEC62368_1B - ATTACHMI	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
	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 apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."		
	Translation to Swedish:		
	"Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".		
5.7.6.2	Denmark	No external circuits.	N/A
	To the end of the subclause the following is added:		



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	IEC62368_1B - ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
	The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.		
B.3.1 and B.4	Ireland and United Kingdom 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	The equipment is not direct plug-in equipment.	N/A
G.4.2	Denmark To the end of the subclause the following is added: Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase 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	No power supply cord provided.	N/A
G.4.2	United Kingdom To the end of the subclause the following is added:	The equipment is not direct plug-in equipment.	N/A



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	IEC62368_1B - ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.		
G.7.1	United Kingdom 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.	No power supply cord provided.	N/A
G.7.1	Ireland 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	No power supply cord provided.	N/A
G.7.2	Ireland and United Kingdom To the first paragraph the following is added: A power supply cord with a conductor of 1,25 mm² is allowed for equipment which is rated over 10 A and up to and including 13 A.	No power supply cord provided.	N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		Р
10.5.2	Germany 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:	No CRT within the equipment.	N/A

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	IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict	
	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			

IEC62368_1B - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 62368-1 DENMARK NATIONAL DIFFERENCES

Audio/video, information and communication technology equipment -

Part 1: Safety requirements

Differences according to DS/EN 62368-1:2014

Attachment Form No...... DK_ND_IEC62368_1B

Attachment Originator: UL (Demko)

Master Attachment: 2014-10

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	National Differences		_
4.1.15	To the end of the subclause the following is added: Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord."	Added. See copy of marking plate.	P
5.2.2.2	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.	Added.	N/A
5.6.1	Add to the end of the subclause: Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	Added. No socket outlet is provided.	N/A
5.7.5	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.	Added.	N/A

	IEC62368_1B - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		
5.7.6.2	To the end of the subclause the following is added:	Added.	N/A		
	The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.				
G.4.2	To the end of the subclause the following is added:	Added.	N/A		
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011.				
	CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.				
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase 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:				
ı	Heavy Current Regulations, Section 6c				

IEC62368_1B - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

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S	IEC 62368-1 - US and Canadian National Differences Special National Conditions based on Regulations and Other National Differences			
1.1	All equipment is to be designed to allow installation according to the National Electrical Code (NEC), ANSI/NFPA 70, the Canadian Electrical Code (CEC), Part I, CAN/CSA C22.1, and when applicable, the National Electrical Safety Code, IEEE C2. Also, for such equipment marked or otherwise identified, installation is allowed per the Standard for the Protection of Information Technology Equipment, ANSI/NFPA 75.	In accordance with the National Electrical Code (NEC) and the Canadian Electrical Code (CEC) part 1 CAN/CSA C22.1, ANSI/NFPA 70, and unless marked or otherwise identified, the Standard for Electronic Computer/Data-Processing Equipment, ANSI/NFPA 75.	Р	
1.4	Additional requirements apply to some forms of power distribution equipment, including subassemblies.	Considered.	Р	
4.1.17	For lengths exceeding 3.05 m, external interconnecting flexible cord and cable assemblies are required to be a suitable cable type (e.g., DP, CL2) specified in the NEC.	Not exceeding 3.05 m.	N/A	
	For lengths 3.05 m or less, external interconnecting flexible cord and cable assemblies that are not types specified in the NEC generally are required to have special construction features and identification markings.	Overall acceptance shall be evaluated during the national approval.	N/A	
4.8	Lithium coin / button cell batteries have modified special construction and performance requirements.	No such batteries.	N/A	
5.6.3	Protective earthing conductors comply with the minimum conductor sizes in Table G.5, except as required by Table G.7ADV.1 for cord connected equipment, or Annex DVH for permanently connected equipment	An appliance inlet provided that is connected by an approved appliance coupler serves as main protective earthing terminal. No power supply cord provided.	N/A	
5.7.7	Equipment intended to receive telecommunication ringing signals complies with a special touch current measurement tests.	No TNV circuits within the equipment.	N/A	

	IEC62368_1B - ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
6.5.1	PS3 wiring outside a fire enclosure complies with single fault testing in B.4, or be current limited per one of the permitted methods.	No such parts.	N/A
Annex F (F.3.3.8)	Output terminals provided for supply of other equipment, except mains, supply are marked with a maximum rating or references to which equipment it is permitted to be connected.	No DC output connector is provided.	N/A
Annex G (G.7.1)	Permanent connection of equipment to the mains supply by a power supply cord is not permitted, except for certain equipment, such as ATMs.	The equipment is not permanent connection equipment.	N/A
Annex G (G.7.3)	Power supply cords are required to have attachment plugs rated not less than 125 percent of the rated current of the equipment.	No power supply cord provided.	N/A
	Flexible power supply cords are required to be compatible with Article 400 of the NEC, and Tables 11 and 12 of the CEC.	See above.	N/A
Annex G (G.7.5)	Minimum cord length is required to be 1.5 m, with certain constructions such as external power supplies allowed to consider both input and output cord lengths into the requirement. Power supply cords are required to be no longer than 4.5 m in length if used in ITE Rooms.	See above.	N/A
Annex H.2	Continuous ringing signals under normal operating conditions up to 16 mA only are permitted if the equipment is subjected to special installation and performance restrictions.	No TNV circuits within the equipment.	N/A
Annex H.4	For circuits with other than ringing signals and with voltages exceeding 42.4 V _{peak} or 60 V d.c., the maximum acceptable current through a 2000 ohm resistor (or greater) connected across the voltage source with other loads disconnected is 7.1 mA peak or 30 mA d.c. under normal operating conditions.	No TNV circuits within the equipment.	N/A
Annex M	Battery packs for stationary applications comply with special component requirements.	No such parts.	N/A
Annex DVA (1)	Equipment intended for use in spaces used for environmental air are subjected to special flammability requirements for heat and visible smoke release.	The equipment not intended to be used within such environments.	N/A
	For ITE room applications, automated information storage systems with combustible media greater than 0.76 m³ (27 cu ft) have a provision for connection of either automatic sprinklers or a gaseous agent extinguishing system with an extended discharge.	Not such equipment.	N/A

	IEC62368_1B - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		
	Consumer products designed or intended primarily for children 12 years of age or younger are subject to additional requirements in accordance with U.S. & Canadian Regulations.	The equipment is not for children used.	N/A		
	Baby monitors additionally comply with ASTM F2951, Consumer Safety Specification for Baby Monitors.	Not a baby monitors.	N/A		
Annex DVA (5.6.3)	For Pluggable Equipment Type A, the protection in the installation is assumed to be 20A.	Considered.	Р		
Annex DVA (6.3)	The maximum quantity of flammable liquid stored in equipment complies with NFPA 30.	No flammable liquids within the equipment.	N/A		
Annex DVA (6.4.8)	For ITE room applications, enclosures with combustible material measuring greater than 0.9 m² (10 sq ft) or a single dimension greater than 1.8 m (6 ft) have a flame spread rating of 50 or less. For equipment with the same dimensions for other applications, an external surface that is not a fire enclosure requires a min. flammability classification of V-1.	No such application.	N/A		
Annex DVA (10.3.1)	Equipment with lasers meets the U.S. Code of Federal Regulations 21 CFR 1040 (and the Canadian Radiation Emitting Devices Act, REDR C1370).	No such parts.	N/A		
Annex DVA (10.5.1)	Equipment that produces ionizing radiation complies with the U.S. Code of Federal Regulations, 21 CFR 1020 (and the Canadian Radiation Emitting Devices Act, REDR C1370).	No such parts.	N/A		
Annex DVA (F.3.3.3)	Equipment for use on a.c. mains supply systems with a neutral and more than one phase conductor (e.g. 120/240 V, 3-wire) require a special marking format for electrical ratings. Additional considerations apply for voltage ratings that exceed the attachment cap rating or are lower than the "Normal Operating Condition" in Table 2 of CAN/CSA C22.2 No. 235."	Single phase only.	N/A		
Annex DVA (F.3.3.5)	Equipment identified for ITE (computer) room installation is marked with the rated current	Not such application.	N/A		
Annex DVA (G.1)	Vertically-mounted disconnect switches and circuit breakers have the "on" position indicated by the handle in the up position	No such parts.	N/A		
Annex DVA (G.3.4)	Suitable NEC/CEC branch circuit protection rated at the maximum circuit rating is required for all standard supply outlets and receptacles (such as supplied in power distribution units) if the supply branch circuit protection is not suitable.	No standard supply outlets, receptacles, medium-base or smaller lampholders provided.	N/A		
Annex DVA (G.4.2)	Equipment with isolated ground (earthing) receptacles complies with NEC 250.146(D) and CEC 10-112 and 10-906(8).	No such parts.	N/A		

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
Annex DVA (G.4.3)	Where a fuse is used to provide Class 2 or Class 3 current limiting, it is not operator-accessible unless it is non- interchangeable.	No such parts.	N/A
Annex DVA (G.5.3)	Power distribution transformers distributing power at 100 volts or more, and rated 10 kVA or more, require special transformer overcurrent protection.	No such parts.	N/A
Annex DVA (G.5.4)	Motor control devices are required for cord- connected equipment with a mains-connected motor if the equipment is rated more than 12 A, or if the equipment has a nominal voltage rating greater than 120 V, or if the motor is rated more than 1/3 hp (locked rotor current over 43 A).	No such parts.	N/A
Annex DVA (Annex M)	For ITE room applications, equipment with battery systems capable of supplying 750 VA for five minutes have a battery disconnect means that may be connected to the ITE room remote power-off circuit.	Not such application.	N/A
Annex DVA (Q)	Wiring terminals intended to supply Class 2 outputs according to the NEC or CEC Part 1are marked with the voltage rating and "Class 2" or equivalent; marking is located adjacent to the terminals and visible during wiring.	Not applicable for the equipment.	N/A
Annex DVB (1)	Additional requirements apply for equipment used for entertainment purposes intended for installation in general patient care areas of health care facilities.	Not such application.	N/A
Annex DVC (1)	Additional requirements apply for equipment intended for mounting under kitchen cabinets.	Not such application.	N/A
Annex DVE (4.1.1)	Some equipment, components, sub-assemblies and materials associated with the risk of fire, electric shock, or personal injury have component or material ratings in accordance with the applicable national (U.S. and Canadian) component or material requirements. Components required to comply include: appliance couplers, attachment plugs, battery back-up systems, battery packs, circuit breakers, communication circuit accessories, connectors (used for current interruption of non-LPS circuits), power supply cords, direct plug-in equipment, electrochemical capacitor modules (energy storage modules with ultra-capacitors), enclosures (outdoor), flexible cords and cables, fuses (branch circuit), ground-fault current interrupters, interconnecting cables, data storage equipment, printed wiring, protectors for communications circuits, receptacles, surge protective devices, vehicle battery adapters, wire connectors, and wire and cables.	UL approved components used. Refer to table 4.1.2 of IEC 62368-1 test report for details.	P

	IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict	
Annex DVH	Equipment for permanent connection to the mains supply is subjected to additional requirements.	The equipment is not permanently connected equipment.	N/A	
Annex DVH (DVH.1)	Wiring methods (terminals, leads, etc.) used for the connection of the equipment to the mains are in accordance with the NEC/CEC.	Pluggable equipment type A.	N/A	
Annex DVH (DVH.3.2)	Terminals for permanent wiring, including protective earthing terminals, are suitable for U.S./Canadian wire gauge sizes, rated 125 percent of the equipment rating, and are specially marked when specified.	No terminals for permanent wiring.	N/A	
Annex DVH (DVH.3.2)	Wire binding screws are not permitted to attach conductors larger than 10 AWG (5.3 mm²).	No wire binding screws.	N/A	
Annex DVH (DVH.4)	Permanently connected equipment is required to have a suitable wiring compartment and wire bending space.	The equipment is not permanently connected equipment.	N/A	
Annex DVH (DVH 5.5)	Equipment connected to a centralized d.c. power system, and having one pole of the DC mains input terminal connected to the main protective earthing terminal in the equipment, complies with special earthing, wiring, marking and installation instruction requirements.	The equipment not connected to a centralized d.c. power system.	N/A	
Annex DVI (6.7)	Equipment intended for connection to telecommunication network outside plant cable is required to be protected against overvoltage from power line crosses.	No TNV circuits within the equipment.	N/A	
Annex DVJ (10.6.1)	Equipment connected to a telecommunication and cable distribution networks and supplied with an earphone intended to be held against, or in the ear is required to comply with special acoustic pressure requirements.	No TNV circuits within the equipment.	N/A	

IEC 62368_1B ATTACHMENT					
Clause	Requirement + Test		Result - Remark	Verdict	

ATTACHMENT TO TEST REPORT

IEC 62368-1

(AUSTRALIA / NEW ZEALAND) NATIONAL DIFFERENCES

(Audio/video, information and communication technology equipment)

Differences according to AS/NZS 62368.1:2018

Attachment Form No. AU_NZ_ND_IEC62368_1B

Attachment Originator...... JAS-ANZ

Master Attachment 2019-02-04

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	National Differences		
Appendix ZZ	Variations to IEC 62368-1:2014 (ED. 2.0) for Australia and New Zealand		
ZZ1 Scope	This Appendix lists the normative variations to IEC 62368-1:2014 (ED. 2.0)		
ZZ2 Variations	The following modifications are required for Australian/New Zealand conditions:		
2	Add the following to the list of normative references: The following normative documents are referenced	Added.	Р
	in Appendix ZZ: -AS/NZS 3112, Approval and test specification— Plugs and socket-outlets		
	-AS/NZS 3123, Approval and test specification— Plugs, socket-outlets and couplers for general industrial application		
	-AS/NZS 3191, Electric flexible cords		
	-AS/NZS 60065, Audio, video and similar electronic apparatus—Safety requirements		
	(IEC 60065:2015 (ED.8.0) MOD)		
	-AS/NZS 60320.1, Appliance couplers for household and similar general purposes,		
	Part 1: General requirements (IEC 60320-1, Ed.2.1 (2007) MOD)		
	-AS/NZS 60320.2.2, Appliance couplers for household and similar general purposes		
	Part 2.2: Interconnection couplers for household and similar equipment (IEC 60320-2-		
	2, Ed.2.0 (1998) MOD)		
	-AS/NZS 60695.2.11, Fire hazard testing, Part 2.11: Glowing/hot wire based test methods—Glowwire flammability test method for end-products		
	-AS/NZS 60695.11.5, Fire hazard testing, Part 11.5: Test flames—Needle-flame test method— Apparatus, confirmatory test arrangement and		

	IEC 62368_1B ATTACHM	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
		1	,
	guidance		
	-AS/NZS 60695.11.10, Fire hazard testing, Part 11.10: Test flames—50 W		
	horizontal and vertical flame test methods		
	-AS/NZS 60884.1, Plugs and socket-outlets for household and similar purposes,		
	Part 1: General requirements		
	-AS/NZS 60950.1:2015, Information technology equipment—Safety, Part 1: General requirements (IEC 60950-1, Ed.2.2 (2013), MOD) IEC 61032:1997, Protection of persons and equipment by enclosures—Probes for		
	verification		
	-AS/NZS 61558.1:2008 (including Amendment 2:2015), Safety of Power Transformers,		
	Power Supplies, Reactors and Similar Products, Part 1: General requirements and		
	tests (IEC 61558-1 Ed 2.1, MOD)		
	-AS/NZS 61558.2.16, Safety of transformers, reactors, power supply units and similar		
	products for voltages up to 1 100 V, Part 2.16:		
	Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units.		
4.1.1	Application of requirements and acceptance of materials, components and subassemblies	Replaced.	Р
	1 Replace the text 'IEC 60950-1' with 'AS/NZS 60950.1:2015'.		
	2 Replace the text 'IEC 60065' with 'AS/NZS 60065'.		
4.7	Equipment for direct insertion into mains socke	et-outlets	N/A
4.7.2	Requirements	Deleted.	N/A
	Delete the text of the second paragraph and replace with the following:		
	Equipment with a plug portion, suitable for insertion into a 10 A 3-pin flat-pin		
	socket-outlet complying with AS/NZS 3112 shall comply with the requirements in AS/NZS 3112 for equipment with integral pins for insertion into socket-outlets.		
4.7.3	Compliance Criteria	Deleted.	N/A
	Delete the first paragraph and Note 1 and Note 2 and replace with the following:		
	Compliance is checked by inspection and, if necessary, by the tests in AS/NZS 3112.		
4.8	Delete existing clause title and replace with the foll	lowing:	N/A
	4.8 Products containing coin/button cell batteri	•	

	IEC 62368_1B ATTACHME	NT	
Clause	Requirement + Test	Result - Remark	Verdict
4.8.1	General 1 Second dashed point, delete the text and replace with the following: - include coin/button cell batteries with a diameter of 32 mm or less. 2 After the second dashed point, insert the following Note: NOTE 1: Batteries are specified in IEC 60086-2.		N/A
	3 After the third dashed point, renumber the existing Note as 'NOTE 2'.4 Fifth dashed point, delete the word 'lithium'.		
4.8.2	Instructional Safeguard		N/A
4.8.3	First line, <i>delete</i> the word 'lithium'. Construction First line, after the word 'Equipment' <i>insert</i> the		N/A
4.0.3	words 'containing one or more coin/button batteries and'		
4.8.5	Compliance criteria Delete the first paragraph and replace with the following: Compliance is checked by applying a force of 30 N +/-1 N for 10 s to the battery compartment door/cover by a rigid test finger according to test probe 11 of IEC 61032:1997 at the most unfavourable place and in the most unfavourable direction. The force shall be applied in one direction at a time.	Deleted.	N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General Delete the first paragraph and replace with the following: In Australia only, the separation is checked by the test of both Clause 5.4.10.2.2 and Clause 5.4.10.2.3. In New Zealand, the separation is checked by the test of either Clause 5.4.10.2.2 or Clause 5.4.10.2.3.	Deleted.	N/A
Table 29	Replace the table with the following:	<u>I</u>	N/A

	IEC 62368_1B ATTACHMENT					
Clause	Requirement + Test		Result - Remark	Verdict		

Parts			Impulse test		Steady state	e test	
		New			New	Austral	
		Zealand	Australia		Zealand	ia	
Parts indicate	ed in	2.5 kV	7.0 kV for hand-held telephones		1.5 kV	3 kV	
Clause 5.4.10).1 a) ^a	10/700 μs	and headsets, 2.5 kV fo	r other			
			equipment. 10/700 µs				
Parts indicate		1.5 kV 10/7	′00 μs ^c		1.0 kV	1.5 kV	
	0.1 b) and c) b						
	ressors shall no						
	=		rovided that such devices		ie impuise tes	ST OT	
11		•	onents outside the equipm suppressor to operate ar		enarkover to	occur	
in a GDT.	est, it is allowe	u ioi a suige	suppressor to operate at	iu iui a	Sparkover to	occui	
5.4.10.2.2	After the first 202 as follows		nsert new Notes 201 and				N/A
		,	he 7 kV impulse on typical rural				
	and semi-rura	ıl network line	es.				
			he value of 2.5 kV for				
			osen to ensure the concerned and does				
			kely overvoltages.				
5.4.10.2.3	After the first 202 as follows		nsert new Notes 201 and				N/A
			vhere there are lation under test, it				
	is recommend	ded that d.c.	test voltages are used.				
	Australia have low frequency	e been deteri induced vol	I.5 kV values for mined considering the tages from the power				
6	supply distribution	-	•				Р
	_	auseu IIIE		ا - الم الم ۸			
6.1	General After the first paragraph:	paragraph, <i>ir</i>	nsert the following new	Added			Р
	Alternatively, 6.5.2 are cons	sidered to be	ents of Clauses 6.2 to fulfilled if the equipment nents of Clause 6.202				
6.6	After Clause 6	6.6, <i>add</i> the r	new Clauses 6.201 and 6	.202 as	follows:		N/A
	6.201 Externa	al power su	oplies, docking stations	and ot	her similar d	levices	
	6.202 Resista	ance to fire-	-Alternative tests				
	(see special n	ational cond	itions)				
8.5.4	Special categ	gories of eq	uipment comprising mo	ving pa	arts		N/A
	1						

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
8.5.4.1	Large data storage equipment In the first dashed row and the second dashed rows <i>replace</i> 'IEC 60950-1:2005' with 'AS/NZS 60950.1:2015'.		N/A	
8.6	Stability of equipment		Р	
8.6.1 and Table 36	Requirements 1. Table 36, insert Footnote c at the end of the 'Glass slide' heading, and add a new Footnote c after the text of Footnote b in the last row of Table 36 as follows: © The glass slide test is not applicable to floor	Considered.	Р	
8.6.1	standing equipment, even though the equipment may have controls or a display. 2. Table 36, fifth row, <i>insert</i> '201' at the end of 'No stability requirements' 3. Table 36, ninth row, <i>insert</i> '201' at the end of 'No stability requirements' 4. Table 36, <i>add</i> the following new footnote: 201 MS2 and MS3 television sets and display devices, designed only for fixing to a wall, ceiling or equipment rack, are not subjected to stability requirements only if the instructional safeguard of Clause 8.6.1.201 is provided. Otherwise, the glass slide requirements of Clause 8.6.4 and horizontal force requirements of Clause 8.6.5 apply. 5. Second paragraph beneath Table 36, <i>delete</i> the words 'MS2 and MS3 television sets' and <i>replace</i> with 'MS2 and MS3 television sets and display devices' After Clause 8.6.1 <i>add</i> the following new clauses: 8.6.1.201 Instructional safeguard for fixed-mount television sets	Added. No such equipment.	N/A	
	(see special national conditions)			
Annex F Paragraph F.3.5.1	Mains appliance outlet and socket-outlet markings Replace 'IEC 60320-2-2' with 'AS/NZS 60320.2.2'.	Replaced.	N/A	
Annex G Paragraph G.4.2	Mains connectors 1 In the second line <i>insert</i> 'or AS/NZS 3123' after 'IEC 60906-1'. 2 In the second line <i>insert</i> 'or AS/NZS 60320 series' after 'IEC 60320 series' 3 <i>Add</i> the following new paragraph: 10 A or 15 A 250 V flat pin plugs for the connection of equipment to mains-powered socket-outlets for household or similar general use shall comply with AS/NZS 3112 or AS/NZS 60884.1.	Added.	Р	

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
			I	
Paragraph G.5.3.1	Transformers, General 1 In the third dashed point <i>replace</i> 'IEC 61558-1 and the relevant parts of IEC 61558-2' with 'AS/NZS 61558-1 and the relevant parts of AS/NZS 61558.2' 2 In the fourth dashed point <i>replace</i> 'IEC 61558-2-16' with 'AS/NZS 61558.2.16'.	Considered.	Р	
Paragraph	Mains supply cords, General	Considered.	Р	
G.7.1	In the fourth dashed paragraph, replace 'IEC 60320-1' with 'AS/NZS 60320.1'			
Table G.5	Sizes of conductors	Considered.	Р	
	1 In the second row, first column, <i>delete</i> '6' and <i>replace</i> with '7.5'			
	2 In the second row, second column, <i>delete</i> '0,75' and <i>replace</i> with '0.75 ^b			
	3 Delete Note 1.			
	4 Replace 'NOTE 2' with 'NOTE:'. 5 Delete the text of 'Footnote b' and replace with the following:			
	^b This nominal cross-sectional area is only allowed for Class II appliances if the length of the power supply cord, measured between the point where the cord, or cord guard, enters the appliance, and the entry to the plug does not exceed 2 m (0.5 mm2 three-core supply flexible cords are not permitted; see AS/NZS 3191).			
	6 In Footnote c <i>replace</i> 'IEC 60320-1' with 'AS/NZS 60320.1'			
	7 In Footnote d <i>replace</i> 'IEC 60320-1' with 'AS/NZS 60320.1'			
Annex M Paragraph	Protection circuits for batteries provided within the equipment, Test method	No such construction.	N/A	
M.3.2	After the first dashed point <i>add</i> the following Note:			
	NOTE 201: In cases where the voltage source is provided by power from an			
	unassociated power source, consideration should be given to the effects of possible single fault conditions in the unassociated equipment. If the power source is unknown then it should be assumed that the maximum limit of SELV may be applied to the source input under assumed single fault conditions in the source when assessing the charging circuit in the equipment under test.			
	Special national conditions (if any)			

	IEC 62368_1B ATTACHME	NT	
Clause	Requirement + Test	Result - Remark	Verdict
6.201	External power supplies, docking stations and other similar devices	Complied.	Р
	For external power supplies, docking stations and other similar devices, during		
	and after abnormal operating conditions and during single fault conditions the		
	output voltage—		
	 at all ES1 outlets or connectors shall not increase by more than 10% of its 		
	rated output voltage under normal operating condition; and		
	 of a USB outlet or connector shall not increase by more than 3 V or 10% 		
	of its rated output voltage under normal operating conditions, whichever is higher.		
	For equipment with multiple rated output voltages, the requirements apply with the equipment configured for each rated output voltage in turn.		
	NOTE: This is intended to reduce the possibility of battery fire or explosion in attached equipment or accessories when charging secondary lithium batteries.		
	Compliance shall be checked by measurement, taking into account the abnormal		
	operating conditions of Annex B.3 and the simulated single-fault conditions of Annex B.4		
6.202	Resistance to fire—Alternative tests		N/A
6.202.1	General	The alternative method is not	N/A
	Parts of non-metallic material shall be resistant to ignition and spread of fire.	used.	
	This requirement does not apply to decorative trims, knobs and other parts unlikely to be ignited or to propagate flames from inside the equipment, or the following:		
	a) Components that are contained in an enclosure having a flammability category of V-0 according to AS/NZS 60695.11.10 and having openings		
	only for the connecting wires filling the openings completely, and for ventilation not exceeding 1 mm in width regardless of length.		
	b) The following parts which would contribute negligible fuel to a fire:		
	 small mechanical parts, the mass of which does not exceed 4 g, such as mounting parts, gears, cams, belts and bearings; 		
	 small electrical components, such as capacitors with a volume not exceeding 1 750 mm3, integrated circuits, transistors and optocoupler 		
	packages, if these components are mounted on		

	IEC 62368_1B ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
	material of flammability category V-1, or better, according to AS/NZS 60695.11.10. NOTE: In considering how to minimize propagation of fire and what 'small parts' are, account should be taken of the cumulative effect of small parts adjacent to each other for the possible effect of propagating the fire from one part to another.		
	Compliance shall be checked by the tests of Clauses 6.202.2, 6.202.3 and 6.202.4. For the base material of printed boards, compliance shall be checked by the test of Clause 6.202.5. The tests shall be carried out on parts of nonmetallic material which have been removed from the equipment. When the glow-wire test is carried out, the parts shall be placed in the same		N/A
6.202.2	orientation as they would be in normal use. These tests are not carried out on internal wiring. Testing of non-metallic materials		N/A
S.202.2	Parts of non-metallic material shall be subject to the glow-wire test of AS/NZS 60695.2.11 which shall be carried out at 550°C. Parts for which the glow-wire test cannot be carried out, such as those made of soft or foamy material, shall meet the requirements specified in ISO 9772 for category FH-3 material. The glow-		
	wire test shall be not carried out on parts of material classified at least FH-3 according to ISO 9772 provided that the relevant part is not thinner than the sample tested.		
6.202.3	Testing of insulating materials Parts of insulating material supporting Potential Ignition Sources shall be subject to the glow-wire test of AS/NZS 60695.2.11 which shall be carried out at 750°C. The test shall be also carried out on other parts of		N/A
	insulating material which are within a distance of 3 mm of the connection. NOTE: Contacts in components such as switch contacts are considered to be connections		
	For parts which withstand the glow-wire test but produce a flame, other parts above the connection within the envelope of a vertical cylinder having a diameter of 20 mm and a height of 50 mm shall be subjected to the needle-flame test. However, parts shielded by a barrier which meets		N/A
	the needle-flame test need not be tested The needle-flame test shall be made in accordance with AS/NZS 60695.11.5 with the		N/A

IEC 62368_1B ATTACHMENT					
Clause	Requirement + Test		Result - Remark	Verdict	

fallering	
following modifications: Clause of AS/NZS	Change
60695.11.5	Onlange
9 Test procedure	
9.2 Application of needle-flame	Delete the first and second paragraphs
	and <i>replace</i> with the
	following:
	The specimen shall be arranged so that the
	flame can be
	applied to a vertical or horizontal edge as
	shown in the
	examples of Figure 1.
	If possible the flame shall be applied at
	least 10 mm from a
	corner. The duration of
	application of the test
	flame shall be 30 s □1 s.
9.3 Number of test	Replace with the
specimens	following:
	The test shall be made on one specimen. If
	the specimen does
	not withstand the test, the test may be
	repeated on two
	further specimens, both of
	which shall withstand
44 = 1	the test.
11 Evaluation of test results	Replace with the following:
	The duration of
	burning (tb) shall not exceed 30 s.
	However,
	for printed circuit boards, it shall not
	exceed 15 s.
	nall not be carried out on
parts of material classifie	ed as

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
	V-0 or V-1 according to AS/NZS 60695.11.10, provided that the relevant part is not thinner than the sample tested.			
6.202.4	Testing in the event of non-extinguishing material		N/A	
	If parts, other than enclosures, do not withstand the glow wire tests of Clause 6.202.3, by failure to extinguish within 30 s after the removal of the glowwire tip, the needle-flame test detailed in Clause 6.202.3 shall be made on all parts of non-metallic material which are within a distance of 50 mm or which are likely to be impinged upon by flame during the tests of Clause 6.202.3. Parts shielded by a separate barrier which meets the needle-flame test need not be tested. NOTE 1: If the enclosure does not withstand the glow-wire test			
	the equipment is considered to have failed to meet the requirements of Clause 6.202 without the need for consequential testing. NOTE 2: If other parts do not withstand the glow-wire test due to ignition of the tissue paper and if this indicates that burning or glowing particles can fall onto an external surface underneath the equipment, the equipment is considered to have failed to meet the requirements of Clause 6.202 without the need for consequential testing.			
	NOTE 3: Parts likely to be impinged upon by the flame are considered to be those within the envelope of a vertical cylinder having a radius of 10 mm and a height equal to the height of the flame, positioned above the point of the material supporting, in contact with, or in close proximity to, connections.			
6.202.5	Testing of printed boards		N/A	
	The base material of printed boards shall be subjected to the needle-flame test of Clause 6.202.3. The flame shall be applied to the edge of the board where the heat sink effect is lowest when the board is positioned as in normal use. The flame shall not be applied to an edge, consisting of broken perforations, unless the edge is less than 3 mm from a potential ignition source.			
	The test is not carried out if— - the printed board does not carry any potential ignition source; - the base material of printed boards, on which the available apparent power at a connection exceeds 15 VA operating at a voltage exceeding 50 V and equal or less than 400 V (peak) a.c. or d.c. under normal operating conditions, is of flammability			
	category V-1 or better according to AS/NZS 60695.11.10, or the printed boards are protected by an enclosure meeting the flammability category V-0 according to AS/NZS 60695.11.10, or made of metal, having openings only for connecting wires			

	IEC 62368_1B ATTACHME	NT	
Clause	Requirement + Test	Result - Remark	Verdict
	which fill the openings completely; or — the base material of printed boards, on which the available equipment power at a connection exceeds 15 VA operating at a voltage exceeding 400 V (peak) a.c. or d.c. under normal operating conditions, and base material of printed boards supporting spark gaps which provides protection against overvoltages, is of flammability category V-0 according to AS/NZS 60695.11.10 or the printed boards are contained in a metal enclosure, having openings only for connecting wires which fill the openings completely. Conformance shall be determined using the smallest thickness of the material. NOTE: Available apparent power is the maximum apparent power which can be drawn from the supplying circuit through a resistive load whose value is chosen to maximize the apparent power for more than 2 min when the circuit supplied is disconnected.		
6.202.6	For open circuit voltages greater than 4 kV Potential ignition sources with open circuit voltages exceeding 4 kV (peak) a.c. or d.c. under normal operating conditions shall be contained in a FIRE ENCLOSURE which shall comply with flammability category V-1 or better according to AS/NZS 60695.11.10.		N/A
8.6.1.201	8.6.1.201 Instructional safeguard for fixed-mount television sets MS2 and MS3 television sets and display devices designed only for fixed mounting to a wall of ceiling or equipment rack shall, where required in Table 36, footnote 201, have an instructional safeguard in accordance with Clause F.5 which may be on the equipment or included in the installation instructions or equivalent document accompanying the equipment. The elements of the instructional safeguard shall be as follows: – element 1a: not available; – element 2: 'Stability Hazard' or equivalent wording; – element 3: 'The television set may fall, causing serious personal injury or death' or equivalent text; – element 4: the following or equivalent text: To prevent injury, this television set must be securely attached to the floor/wall in accordance with the installation instructions		N/A

IEC 62368_1B ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
8.6.1.202	Restraining device		N/A
0.0.1.202	MS2 and MS3 television sets and display devices that are not solely fixed-mounted		IN/A
	should be provided with a restraining device such as a fixing point to facilitate restraining the equipment from toppling forward. The restraining device shall be capable of withstanding a pull of 100 N in all directions without damage.		
	Where a restraining device is provided, instructions shall be provided in the instructions for installation or instructions for use to ensure correct and safe installation.		

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 62368-1 (JAPAN) NATIONAL DIFFERENCES

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

Differences according to J62368-1 (H30)

Attachment Form No. JP_ND_IEC62368_1B

Attachment Originator.....: UL (JP)

Master Attachment Date 2018-11-22

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	National Differences		
4.1.2	Where the component, or a characteristic of a component, is a safeguard or a part of a safeguard, components shall comply with the requirements of this standard or, where specified in a requirements clause, with the safety aspects of the relevant JIS component standards or IEC component standards, or components shall have properties equivalent to or better than these.	Complied.	Р
5.6.1	Mains socket-outlet and appliance outlet shall comply with Clause G.4.2A if they are incorporated as part of the equipment.	Not such equipment.	N/A
5.6.2.1	Mains connection of class 0I equipment: Instructional safeguard in accordance with Clause F.3.6.1A; Mains plug having a lead wire for protective earthing connection of class 0I equipment; Independent main protective earthing terminal installed by ordinary person.	Class I equipment considered.	N/A
5.6.2.2	This requirement does not apply to internal conductor of the cord set that is covered by the sheath of mains cord and is formed together with mains plug and appliance connector.		N/A
5.6.3	In case of class 0I equipment using power supply cord having two conductors (no earthing conductor), the conductor of protective earthing lead wire shall comply with either of the following: – use of annealed copper wire with 1.6 mm diameter or corrosion-inhibiting metal wire having size and strength that are equivalent to or more than the above copper wire – single core cord or single core cab tire cable with 1.25 mm² or more cross-sectional area	Class I equipment considered.	N/A

IEC 62368_1B ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
5.7.3	For class 0I equipment that is provided with mains socket-outlet in the configuration as specified in JIS C 8282 series or JIS C 8303, or otherwise being considered to comply with relevant regulations, or that is provided with mains appliance outlet as specified in JIS C 8283-2-2 for the purpose of interconnection, the measurement is conducted on the system of the interconnected equipment having a single connection to the mains.	Class I equipment considered.	N/A
5.7.4	In case of class 0I equipment, touch current shall not exceed 1.41 mA peak or for sinusoidal wave, 1.0 mA r.m.s. when measured using the network specified in Figure 4 of IEC 60990.	Class I equipment considered.	N/A
6.4.3.3	A fuse complying with JIC C 6575 series or a fuse having equivalent characteristics shall open within 1 s. For Class A fuse of JIS C 6575, replace "2.1 times" by "1.35 times" and in case of Class B fuse of JIS C 6575, replace "2.1 times" by "1.6 times". A fuse not complying with JIS C 6575 series shall be tested with the breaking capacity taken into account.		N/A
8.5.4.2.1	Only three-phase stationary equipment rated more than 200 V ac can be considered as being for use in locations where children are not likely to be present, when complying with Clause F.4.	No moving parts.	N/A
8.5.4.2.2	For equipment installed where children may be present, an instructional safeguard shall be provided by easily understandable wording in accordance with Clause F.5, except that element 3 is optional.		N/A
8.5.4.2.4	The media destruction device is tested according to Clause V.1.2 with applicable jointed test probes to the opening. And then the wedge probe per Figure V.4 shall not contact any moving part.		N/A
8.5.4.2.5	The wedge probe of Figure V.4 and applicable jointed test probes specified in Clause V.1.2 shall not contact any moving part. Instructional safeguard shall not be used instead of equipment safeguard for preventing access to hazardous moving parts.		N/A
9.2.6, Table 38	Handles, Knobs, grips, etc. and external surfaces either held, touched or worn against the body in normal use (> 1 min) b,c	No such part.	N/A

IEC 62368_1B ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
F.3.5.1	Instructional safeguard of class 0I equipment in accordance with Clause F.5 when a mains socket-outlet as specified in JIS C 8282 series, JIS C 8303 or relevant regulation to which class I equipment can be connected is provided in accordance with Clause G.4.2A except for the cases where the socket-outlet is accessible only to skilled persons.		N/A
F.3.5.3	If the fuse is necessary for the safeguard function, the symbols indicating pre-arcing time-current characteristic.	No replaceable fuse.	N/A
F.3.6.1A	Marking for class 0I equipment The requirements of Clauses F.3.6.1.1 and F.3.6.1.3 shall be applied to class 0I equipment. For class 0I equipment, a marking of instructions and instructional safeguard shall be provided regarding the earthing connection.	Class I equipment considered.	N/A
F.3.6.2.1	Symbols, IEC 60417-5172 (2003-02) or IEC 60417-6092 (2011-10), shall not be used for class I equipment or class 0I equipment.		Р
F.4	Instruction for audio equipment with terminals classified as ES3 in accordance with Table E.1, and for other equipment with terminals marked in accordance with F.3.6.1 and F.3.6.1A. Installation instruction for the protective earthing connection for class 0I equipment provided with independent main protective earthing terminal, where the cord for the protective earthing connection is not provided within the package for the equipment.	Not audio equipment.	N/A
G.3.2.1	The thermal link when tested as a separate component, shall comply with the requirements of JIS C 6691 or have properties equivalent to or better than that.	No such component.	N/A
G.3.4	Except for devices covered by Clause G.3.5, overcurrent protective devices used as a safeguard shall comply with the relevant part of JIS C 6575 (corresponding to IEC60127) or shall have equivalent characteristics. If there are no applicable IEC standards, overcurrent protective devices used as a safeguard shall comply with their applicable IEC standards.	Approved fuse used.	Р
G.4.1	This requirement is not applicable to Clauses G.4.2 and G.4.2A.	Approved AC inlet used.	Р

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
G.4.2	Mains connector shall comply with JIS C 8282 series, JIS C 8283 series, JIS C 8285, JIS C 8303 or IEC 60309 series.		N/A	
	Mains plugs and socket-outlets shall comply with JIS C 8282 series, JIS C 8303, IEC 60309 series, or have equivalent or better performance.			
	A power supply cord set provided with appliance connector that can fit appliance inlet complying with JIS C 8283-1 shall comply with JIS C 8286.			
	Construction preventing mechanical stress not to transmit to the soldering part of inlet terminal. Consideration for an equipment rated not more than 125 V provided with Type C14 and C18 appliance coupler complying with JIS C 8283 series.			
G.4.2A	Mains socket-outlet and interconnection coupler provided with the class II, class I and class 0I equipment respectively.		N/A	
G.7.1	A mains supply cord need not include the protective earthing conductor for class 0I equipment provided with independent protective earthing conductor.	No power cord set provided.	N/A	
G.8.3.3	Withstand 1,71 × 1.1 × U_0 for 5 s.	No varistor.	N/A	

IEC 62368_1B ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	T		
Appendix	Appendix 12, J3000(H25) Special National conditions, National deviation and other information according to MITI Ordinance No. 85.		_
1	General requirement When equipment provides with appliance inlet complying with JIS C 8283-1(2008), soldered parts of appliance inlet is not applied by force during insert or removal of connector.	Inlet is fixed by adequate mechanical construction, not rely on soldering.	P
	This is not applied when inlet body is fixed itself and not fixed by solder.		
2	Requirement for equipment		
2.1	Heater Appliances When diode is used in parallel for adjustment of power, the equipment shall remain safe for operation under open condition of one diode.	Not electric stove.	N/A
	The current rating of one diode shall be more than main current. The diodes connected in parallel are same type.		N/A
	The heating test specified by clause 11 of JIS C 9335-2-30(2006) under open condition of one diode shall comply with the requirements.		N/A
2.2	Electric heater with glowing heating elements	Not electric stove.	N/A
	Surface treatment by paint or adhesive on protective frame or protective mesh shall not be used.		N/A
	Caution marking like below shall be on - easily visible place of the equipment or - Instruction manual 「注意 当該機器から、使用初期段階で揮発性有機化合物及びカルボニル化合物が最も放散するおそれがあるため、その際には十分換気を行うこと。」		N/A
3	Components used in equipment	No such equipment /components.	N/A
3.1	Motor capacitors used in ventilating fan, electric fan, air conditioner, electric washing machine, refrigerator or electric freezer shall be comply with		N/A
	- capacitors with protective elements or protective mechanism complying with JIS C 4908(2007)		
	- P2 capacitor complying with IEC 60252-1(2001)		
	Capacitor complying with below is acceptable		
	Enclosed by metal or ceramic		N/A
	No non-metallic materials within 50 mm from capacitor surface		N/A

IEC 62368_1B ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
	Non-metallic material within 50 mm from capacitor surface comply with needle frame test of JIS C 9335-1(2003), Annex E		N/A	
	Non-metallic material within 50 mm from capacitor surface comply with V-1 test of JIS C 60965-11-10(2006).		N/A	
3.2	Plug directly inserted to outlet used refrigerator or electric freezer. Shall comply with		N/A	
	 Face contact with outlet shall have CTI with more than 400 according to JIS C 2134(2007) or Supporting material of blades shall comply with glow wire test by temperature of 750°C according to JIS C 60695-2-11(2004) or JIS C 60695-2-12(2004). Materials having glow wire frame temperature of 775 °C are acceptable. 			

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LCD monitor (LED Backlight)

<u>Type Designation:</u> 27E2, 27E2********, 27P2, 27P2********, Q27P2, Q27P2*******, U27P2, U27P2*******

Unit with construction 1:

Product:



Figure 1. Overview



Figure 2. Overview

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Product: LCD monitor (LED Backlight)



Figure 3. Overview (vertical orientation)



Figure 4. Overview (vertical orientation)

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Product: LCD monitor (LED Backlight)



Figure 5. Rear view



Figure 6. Base stand type A

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Product: LCD monitor (LED Backlight)

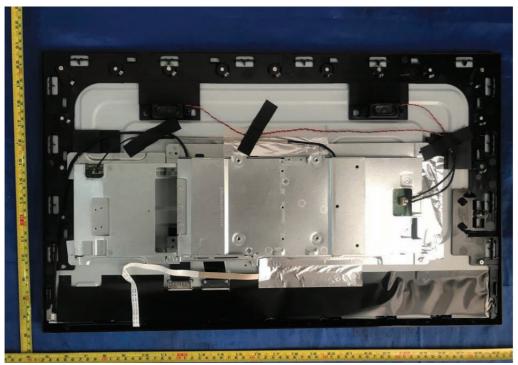


Figure 7. Metal enclosure type A

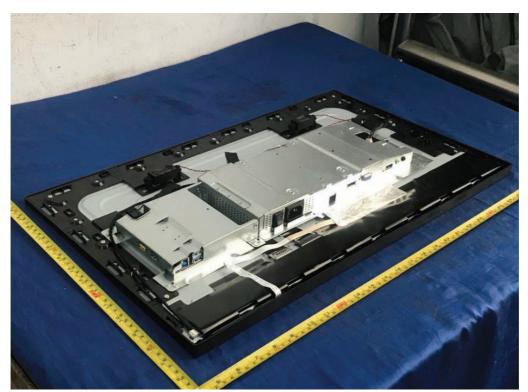


Figure 8. Metal enclosure type A

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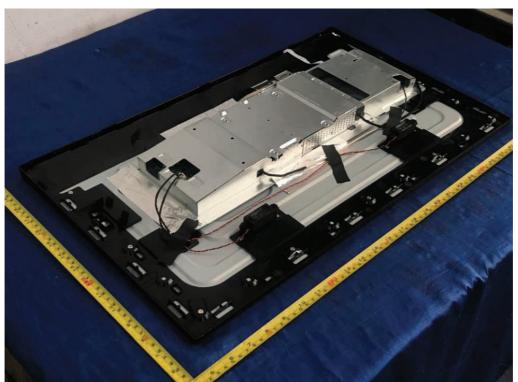


Figure 9. Metal enclosure type A

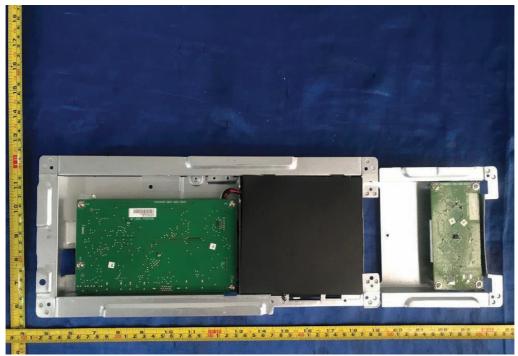


Figure 10. Internal view of metal enclosure

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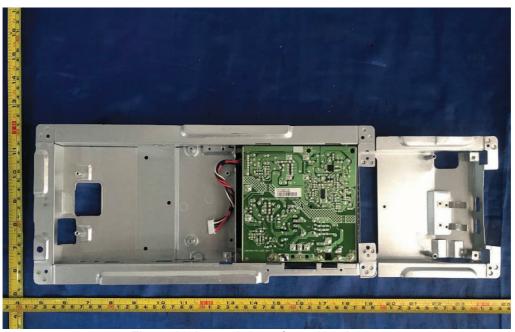


Figure 11. Internal view of metal enclosure

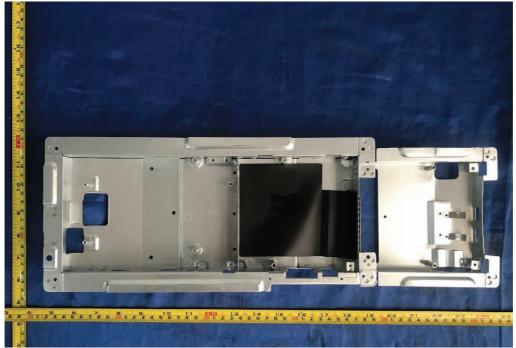


Figure 12. Internal view of metal enclosure

Product:

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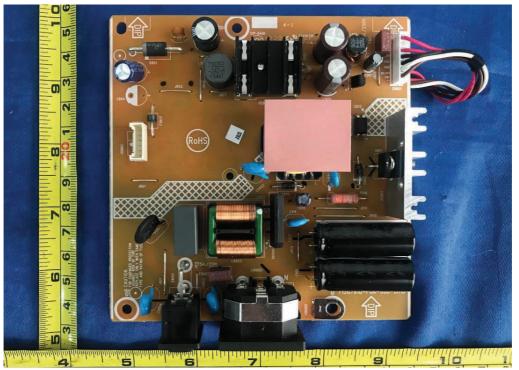


Figure 13. Power board 715G7610

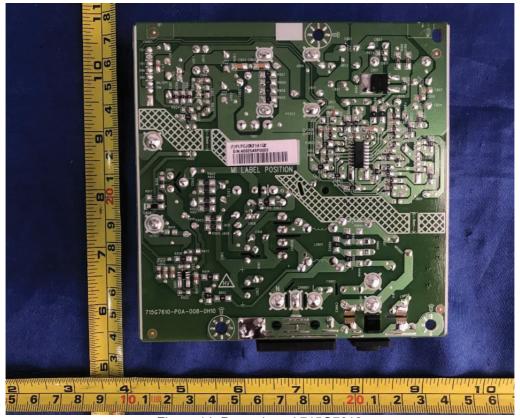


Figure 14. Power board 715G7610

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Product: LCD monitor (LED Backlight)



Figure 15. Main board 715G9485 type B



Figure 16. Main board 715G9485 type B

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Figure 17. Main board 715G9485 type A



Figure 18. Main board 715G9485 type A

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Figure 19. Main board 715G9496



Figure 20. Main board 715G9496

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Product: LCD monitor (LED Backlight)

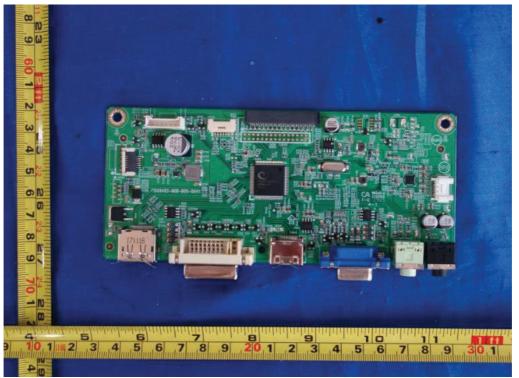


Figure 21. Main board 715G9483



Figure 22. Main board 715G9483

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Figure 23. USB board 715GB017

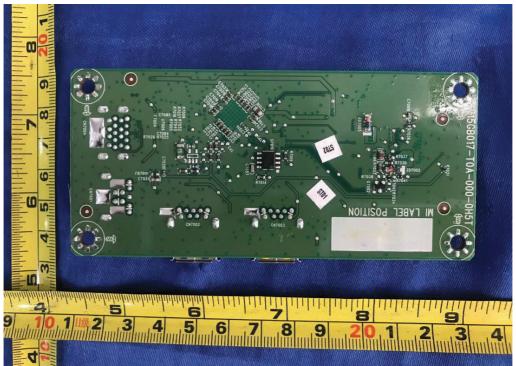


Figure 24. USB board 715GB017

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<u>Type Designation:</u> 27E2, 27E2*******, 27P2, 27P2*******, Q27P2, Q27P2*******, U27P2, U27P2*******

Unit with construction 2:

Product:

(Note: for main board 715G9496 view, refer to figures 19, 20)



Figure 25. Overview



Figure 26. Overview

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Figure 27. Rear view

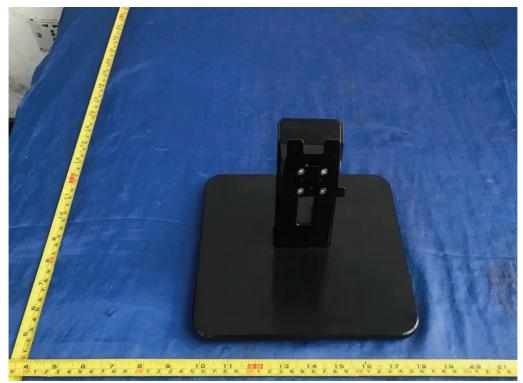


Figure 28. Base stand type B

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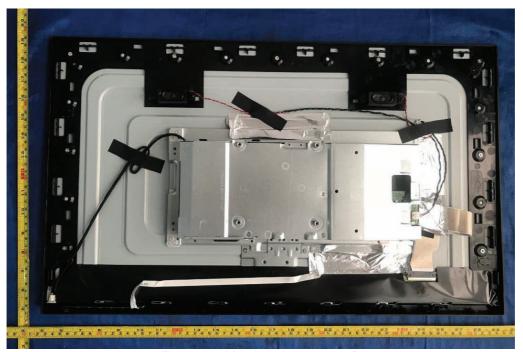


Figure 29. Metal enclosure type B

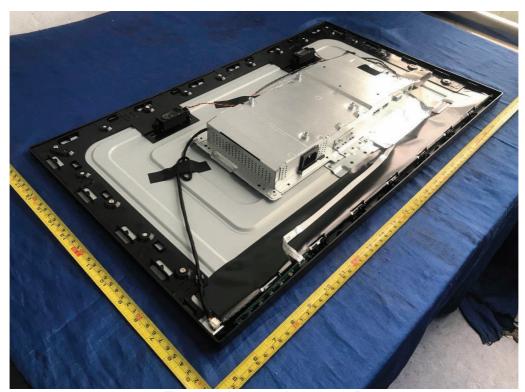


Figure 30. Metal enclosure type B

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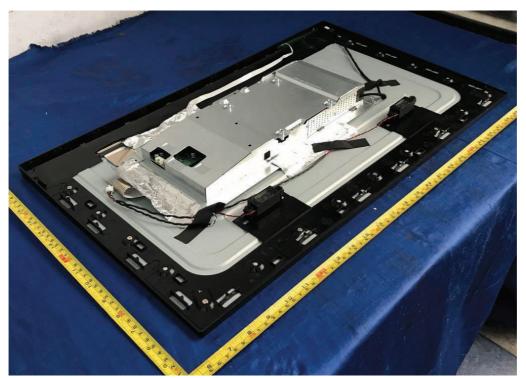


Figure 31. Metal enclosure type B

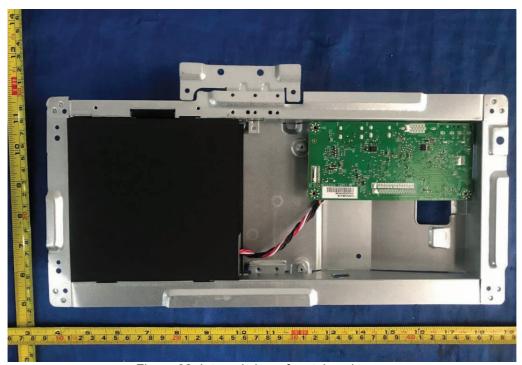


Figure 32. Internal view of metal enclosure

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Figure 33. Internal view of metal enclosure

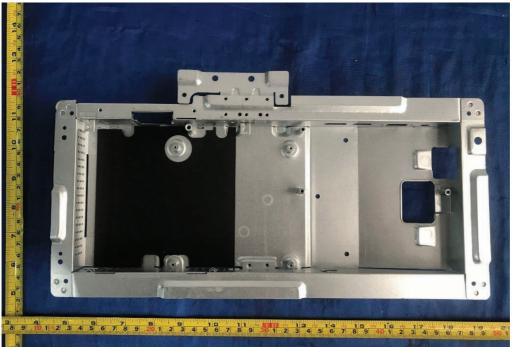


Figure 34. Internal view of metal enclosure

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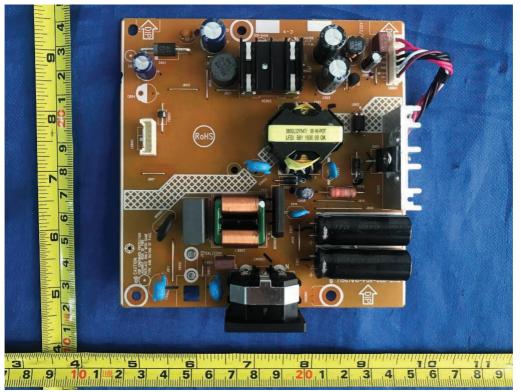


Figure 35. Power board 715G7610 (without AC switch)



Figure 36. Power board 715G7610 (without AC switch)

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LCD monitor (LED Backlight)

Type Designation: 27E2, 27E2*******, 27P2, 27P2*******, Q27P2, Q27P2*******, U27P2, U27P2*******

Unit with construction 3:

Product:

(Note: the overview, base stand and metal enclosure view of construction 3 are identical to construction 2



Figure 37. Internal view of metal enclosure

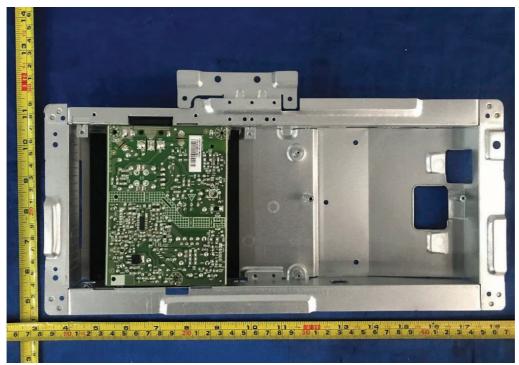


Figure 38. Internal view of metal enclosure

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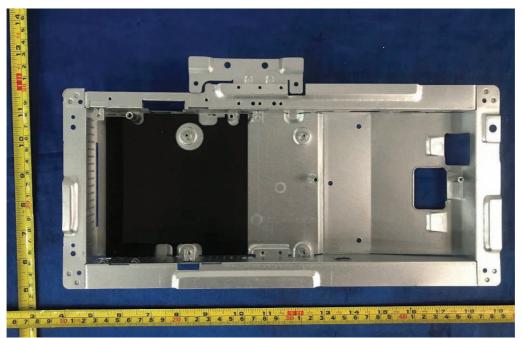


Figure 39. Internal view of metal enclosure

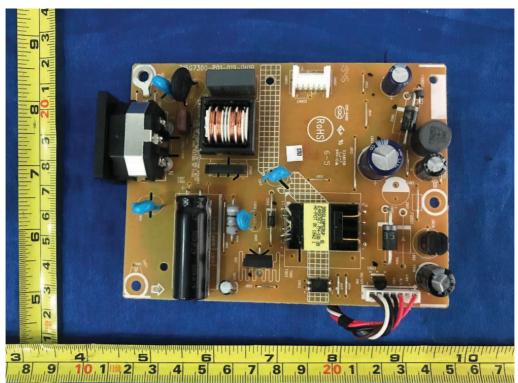


Figure 40. Power board 715G7300

Product:

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LCD monitor (LED Backlight)



Figure 41. Power board 715G7300



Figure 42. Main board 715G9494

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<u>Type Designation:</u> 27E2, 27E2*******, 27P2, 27P2*******, Q27P2, Q27P2*******, U27P2, U27P2*******

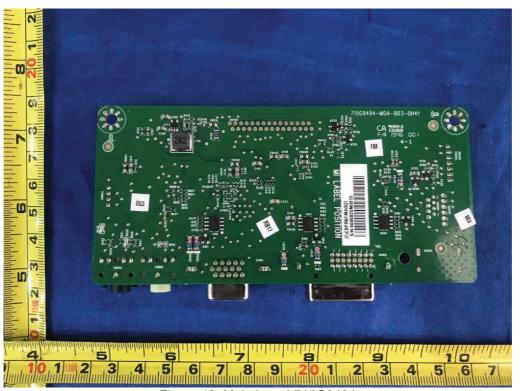


Figure 43. Main board 715G9494

Unit with construction 4:



Figure 44. Overview

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Figure 45. Overview



Figure 46. Overview (vertical orientation)

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Figure 47. Overview (vertical orientation)



Figure 48. Rear view

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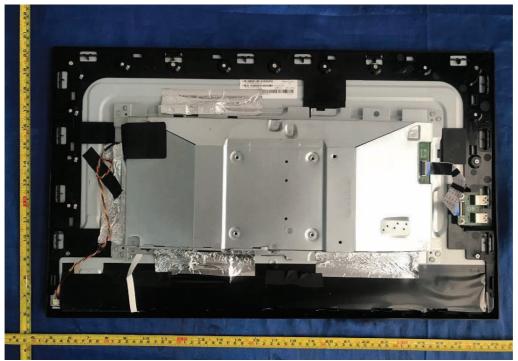


Figure 49. Metal enclosure type C



Figure 50. Metal enclosure type C

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Figure 51. Metal enclosure type C



Figure 52. Internal view of metal enclosure

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Figure 53. Internal view of metal enclosure

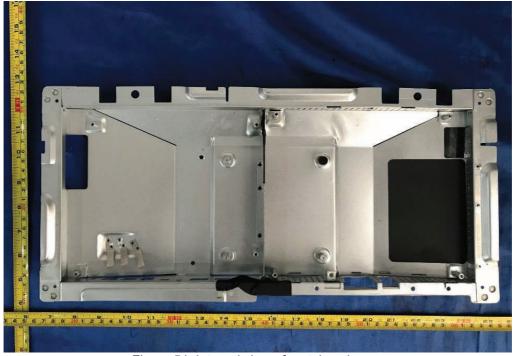


Figure 54. Internal view of metal enclosure

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Figure 55. Power board 715GB004

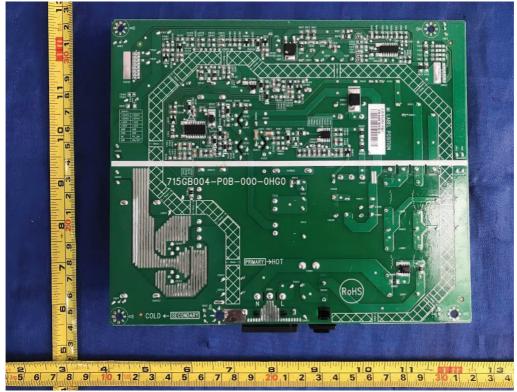


Figure 56. Power board 715GB004

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Figure 57. Main board 715GA987



Figure 58. Main board 715GA987

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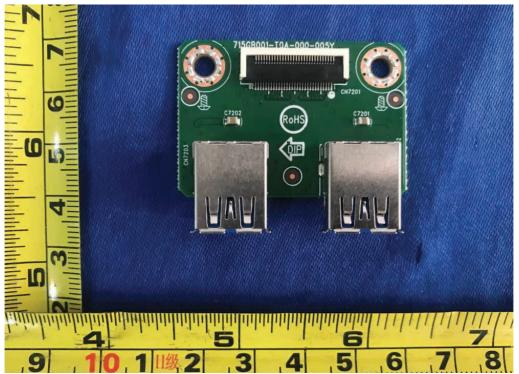


Figure 59. USB board 715GB001

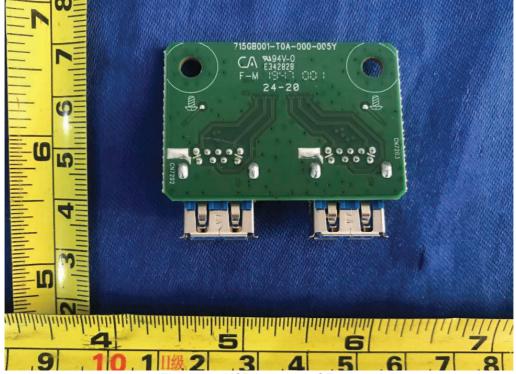


Figure 60. USB board 715GB001