

LVD Test Report

Application No. : HX210303012284

Applicant : Huizhou Kuming Technology Co., Ltd.

Equipment Under Test (EUT)

EUT Name : Ac fan

Model No. : KM(S)4028(X)(Y)(Z)

Serial No. : See Page 2

Brand Name : 
酷铭科技

Receipt Date : 2021-03-11

Test Date : 2021-03-11 to 2021-03-17

Issue Date : 2021-03-17

Standards : EN IEC 62368-1:2020

Conclusions : **PASS**

This report shows that the product technically complies with the Council LVD Directive 2014/35/EU requirements.

Test/Witness Engineer : *Tim Chen*

Approved & Authorized : *Andy Zhang*



This test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

TEST REPORT

IEC 62368-1

Audio/video, information and communication technology equipment

Part 1: Safety requirements

Applicant's name.....: Huizhou Kuming Technology Co., Ltd.

Address.....: Mingchao Science and Technology Creative Industry Park, Shiwan Town, Boluo County, Huizhou City, Guangdong Province

Test specification:

Standard.....: EN IEC 62368-1:2020
IEC/EN 60065: 2014 (Eighth Edition)
IEC/EN 60950-1: 2005 (Second Edition) + A1: 2009 + A2: 2013

Test procedure.....: IEC/EN Test Report

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

Test Report Form No......: IEC62368_1B & IEC/EN 60065 & IEC60950/EN_1A

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

Master TRF.....: 2015-06

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Test Item description.....: Ac fan

Trade Mark.....: 

Manufacturer.....: Huizhou Kuming Technology Co., Ltd.

Address.....: Mingchao Science and Technology Creative Industry Park, Shiwan Town, Boluo County, Huizhou City, Guangdong Province

Model/Type reference.....: KM(S)5025(X)(Y)(Z), KM(S)6025(X)(Y)(Z), KM(S)6030(X)(Y)(Z), KM(S)6038(X)(Y)(Z), KM(S)7025(X)(Y)(Z), KM(S)8025(X)(Y)(Z), KM(S)8038(X)(Y)(Z), KM(S)9225(X)(Y)(Z), KM(S)9232(X)(Y)(Z), KM(S)9238(X)(Y)(Z), KM(S)11025(X)(Y)(Z), KM(S)12025(X)(Y)(Z), KM(S)12032(X)(Y)(Z), KM(S)12038(X)(Y)(Z), KM(S)12738(X)(Y)(Z), KM(S)13538(X)(Y)(Z), KM(S)14045(X)(Y)(Z), KM(S)15050(X)(Y)(Z), KM(S)16062(X)(Y)(Z), KM(S)17238(X)(Y)(Z), KM(S)17250(X)(Y)(Z), KM(S)17255(X)(Y)(Z), KM(S)18060(X)(Y)(Z), KM(S)18065(X)(Y)(Z), KM(S)18090(X)(Y)(Z), KM(S)20053(X)(Y)(Z),

	KM(S)20060(X)(Y)(Z), KM(S)20572(X)(Y)(Z), KM(S)22060(X)(Y)(Z), KM(S)22080(X)(Y)(Z), KM(S)22580(X)(Y)(Z), KM(S)25489(X)(Y)(Z), KM(S)28080(X)(Y)(Z), KM(S)133(X)(Y)(Z), KM(S)175(X)(Y)(Z), KM(S)190(X)(Y)(Z), KM(S)220(X)(Y)(Z), KM(S)225(X)(Y)(Z), KM(S)250(X)(Y)(Z), KM(S)280(X)(Y)(Z), KM(S)310(X)(Y)(Z), KM(S)355(X)(Y)(Z), KM(S)400(X)(Y)(Z), KM(S)450(X)(Y)(Z), KM(S)500(X)(Y)(Z) The letters in () above include the following classifications that meet the relevant safety requirements: (KM) ---- Company Name (S) ---- L centrifugal fan G blower Z-axial fan H cross flow fan (*****)----specifications size (X) ---- L low M transfer H high turn V turn super (Y) ----A communication D dc E ac dc interchange (Z) ---- 1 100~130V/50~60HZ 2 220~240V/50~60HZ 3 380~420V/50~60HZ (Z) ---- 1 12V 2 24V 3 36V 4 48V 5 5V
Rating.....:	Input: AC 230V, 12A, 50/60Hz

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

- Attachment 1: EN IEC 62368-1:2020 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES
- Attachment 2: Photos

Summary of testing:

Tests performed (name of test and test clause):

See Report for details.

Testing location:

Shenzhen HX Detect Certification Co., Ltd.
2/F, bostai, building 22, Tangxi Yongli Industrial Zone,
guxing community, Xixiang street, Bao'an District,
Shenzhen

Summary of compliance with National Differences:**List of countries addressed****EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES**

☒ The product fulfils the requirements of EN IEC 62368-1:2020

Copy of marking plate:

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

Ac fan

Model:KM(S)4028(X)(Y)(Z)

Input: AC 230V, 12A, 50/60Hz

Huizhou Kuming Technology Co., Ltd.

**Note:**

All testing on model: KM(S)4028(X)(Y)(Z)

The above marking are the minimum requirements required by the safety standard. For the final production sample, the marking which do not give rise to misunderstanding may be add.

- The height dimension of CE mark should not less than 5mm, the height dimension of WEEE symbol should not less than 7mm.

- As declared by the applicant the authorized EEA representative or importer was not decided at the time of application, but will be marked on the products before placing them on the market.

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.....:	___3___ 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 III ☐ OVC IV ☐ other:_____
Class of equipment	☐ Class I ☒ Class II ☐ Class III
Access location	☐ restricted access location ☐ N/A
Pollution degree (PD)	☐ PD 1 ☒ PD 2 ☐ PD 3
Manufacturer's specified maximum operating ambient.....:	___45___ °C
IP protection class	☐ IPX0 ☒ IP_20_
Power Systems	☒ TN ☐ TT ☐ IT - ___ V _{L-L}
Altitude during operation (m)	☒ 2000 m or less ☐ ___5000___ m
Altitude of test laboratory (m)	☒ 2000 m or less ☐ _____ m
Mass of equipment (kg)	☒ ___451___ g
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)
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. This Test Report covers test results for EN IEC 62368-1:2020, and additional results for IEC 60065: 2014 (Eighth Edition) and/or IEC 60950-1: 2005 (Second Edition) + Am 1: 2009 + Am 2: 2013. Where a requirement in IEC 62368-1 addresses the same requirement/principle in IEC 60065 and/or IEC 60950-1, compliance with the IEC 62368-1 requirements covers compliance with the same requirement/principle in IEC 60065 and/or IEC 6095-1, as indicated. The complete background/rationale behind the considerations in this TRF is outlined in 108/575/INF, IEC TC 108 position related to TRFs associated with the transition of IEC 60065 and IEC 60950-1 to IEC 62368-1. Use of this TRF is intended to allow for a smooth transition from the legacy standards, IEC 60065 and IEC 60950-1, to the state-of-art requirements for safety of audio/video, information and communication technology equipment, IEC 62368-1.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60065:	
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).....:	Huizhou Kuming Technology Co., Ltd. Mingchao Science and Technology Creative Industry Park, Shiwan Town, Boluo County, Huizhou City, Guangdong Province
GENERAL PRODUCT INFORMATION:	
Product Description:	
1. The equipment under tests is Ac fan. 2. Circuit characteristics: primary and secondary (SELV) circuit and limited current circuit. 3. Maximum operation ambient temperature Tma: 40	
Model Differences – All models different output current. All models are identical, except for model No., secondary circuit and rated parameters. Unless otherwise specified, the model KM(S)4028(X)(Y)(Z) was chosen as representative model to perform all the tests.	
Additional application considerations – (Considerations used to test a component or sub-assembly) –	

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: +12 V dc input

ES1

Source of electrical energy	Corresponding classification (ES)
Primary circuit	ES3
Capacitor discharge	ES1
Secondary circuit	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)
Primary circuit	PS3
Secondary circuit	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
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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

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)
External enclosure	TS1

ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:**Radiation (Clause 10)**

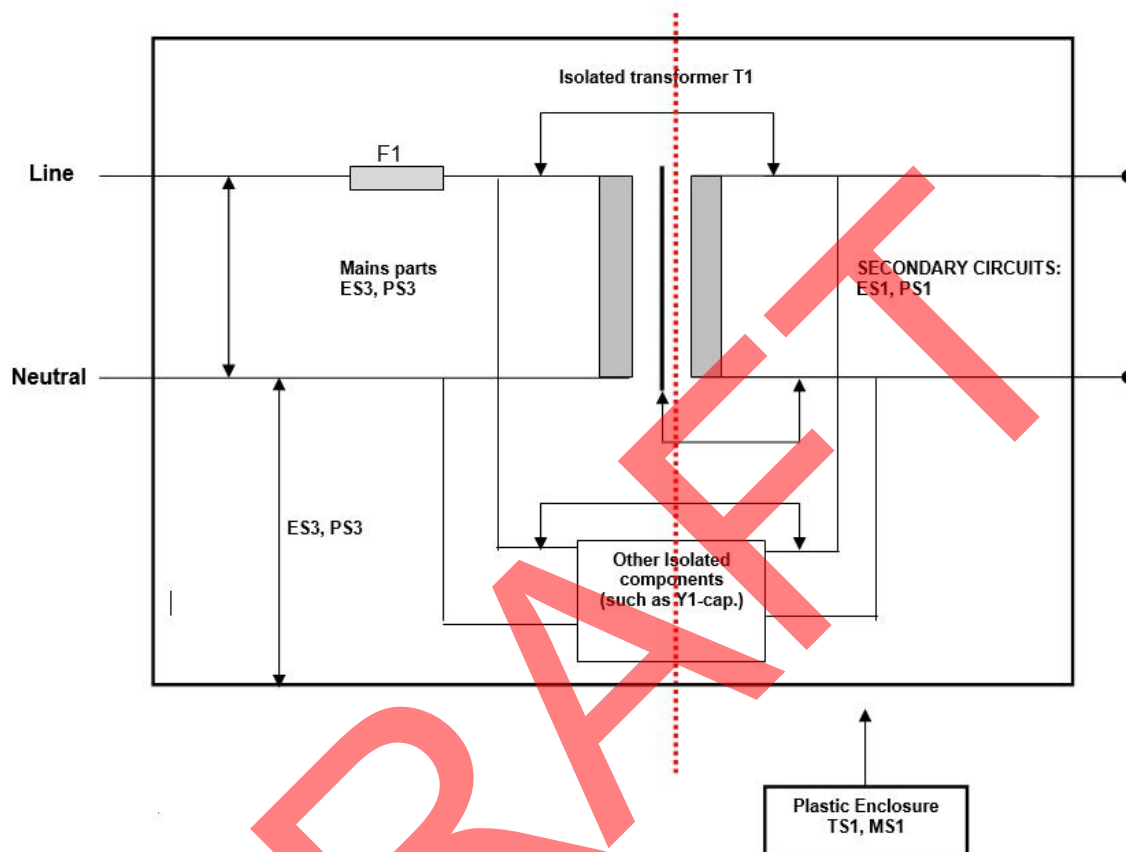
(Note: List the types of radiation present in the product and the corresponding energy source classification.)
Example: DVD – Class 1 Laser Product RS1

Type of radiation	Corresponding classification (RS)
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DRAFT

ENERGY SOURCE DIAGRAM

Indicate which energy sources are included in the energy source diagram. Insert diagram below



☒ ES ☒ PS ☒ MS ☒ TS ☐ RS

OVERVIEW OF EMPLOYED SAFEGUARDS				
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part (e.g. Ordinary)	Energy Source (ES3: Primary Filter circuit)	Safeguards		
		Basic	Supplementary	Reinforced (Enclosure)
Ordinary person	ES3: Primary circuit	N/A	N/A	Enclosure, Transformer, Y1- capacitor, optocoupler
Ordinary person	ES1: Capacitor discharge	N/A	N/A	N/A
Ordinary person	ES1: Secondary circuit	N/A	N/A	N/A
6.1	Electrically-caused fire			
Material part (e.g. mouse enclosure)	Energy Source (PS2: 100 Watt circuit)	Safeguards		
		Basic	Supplementary	Reinforced
Internal combustible material	PS3: Primary components/circuit;	1. No ignition occurred. 2. No parts exceeding 90% of its spontaneous ignition temperature.	1. PCB is complied with V- 1 material. 2. All other components: at least V-2 except for mounted on min. V-1 material or small parts of combustible material. 3. V-1 enclosure provided.	N/A
	PS2: Secondary components/circuit	1. No ignition occurred. 2. No parts exceeding 90% of its spontaneous ignition temperature.	1. PCB is complied with V- 1 material. 2. All other components: at least V-2 except for mounted on min. V-1 material or small parts of combustible material. 3. V-1 enclosure provided.	N/A
7.1	Injury caused by hazardous substances			
Body Part (e.g., skilled)	Energy Source (hazardous material)	Safeguards		
		Basic	Supplementary	Reinforced

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8.1	Mechanically-caused injury			
Body Part (e.g. Ordinary)	Energy Source (MS3:High Pressure Lamp)	Safeguards		
		Basic	Supplementary	Reinforced (Enclosure)
Ordinary person	MS1: Sharp edges and Corners	N/A	N/A	N/A
Ordinary person	MS1: Equipment mass	N/A	N/A	N/A
9.1	Thermal Burn			
Body Part (e.g., Ordinary)	Energy Source (TS2)	Safeguards		
		Basic	Supplementary	Reinforced
Ordinary person	TS1: External enclosure	N/A	N/A	N/A
10.1	Radiation			
Body Part (e.g., Ordinary)	Energy Source (Output from audio port)	Safeguards		
		Basic	Supplementary	Reinforced
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Supplementary Information:				
(1) See attached energy source diagram for additional details.				
(2) "N" – Normal Condition; "A" – Abnormal Condition; "S" Single Fault				

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies (IEC 60065, 3.4) & (IEC 60950-1, 1.5.1)		P
4.1.2	Use of components (IEC 60065, 3.4, 14.1) & (IEC 60950-1, 1.5.2)		P
4.1.3	Equipment design and construction (IEC 60065, 3.1) & (IEC 60950-1, 1.3.2)		P
4.1.15	Markings and instructions.....: (IEC 60065, 5.1) & (IEC 60950-1, 1.7)	(See Annex F)	—
4.4.4	Safeguard robustness		
4.4.4.2	Steady force tests..... : (IEC 60065, 9.1.1.7 c), 13.3.1) & (IEC 60950-1, 4.2.4)	(See Annex T.4, T.5)	—
4.4.4.3	Drop tests..... : (IEC 60065, 12.1.5) & (IEC 60950-1, 4.2.6)	(See Annex T.7)	—
4.4.4.4	Impact tests..... : (IEC 60065, 12.1.4) & (IEC 60950-1, 4.2.5)	(See Annex T.6)	—
4.4.4.5	Internal accessible safeguard enclosure and barrier tests.....: (IEC 60950-1, 4.2.3)	(See Annex T.3)	—
4.4.4.6	Glass Impact tests..... : (IEC 60065, 19.6) & (IEC 60950-1, 4.2.5)	(See Annex T.9, Annex U)	—
4.4.4.7	Thermoplastic material tests..... : (IEC 60065, 12.1.6) & (IEC 60950-1, 4.2.7)	(See Annex T.8)	—
4.4.4.8	Air comprising a safeguard.....: (IEC 60065, 9.1.7) & (IEC 60950-1, 4.2)	(See Annex T)	—
4.4.4.9	Accessibility and safeguard effectiveness (IEC 60065, 9.1.7) & (IEC 60950-1, 4.2.1)		P
4.5	Explosion		P
4.6	Fixing of conductors (IEC 60065, 8.14) & (IEC 60950-1, 3.1.9)		P
4.6.1	Fix conductors not to defeat a safeguard (IEC 60065, 8.14) & (IEC 60950-1, 3.1.9)		P
4.6.2	10 N force test applied to: (IEC 60065, 8.14) & (IEC 60950-1, 3.1.9)		—
4.7	Equipment for direct insertion into mains socket – outlets (IEC 60065, 15.4) & (IEC 60950-1, 4.3.6)		P

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
4.7.2	Mains plug part complies with the relevant standard (IEC 60065, 15.4.2) & (IEC 60950-1, 4.3.6)		—
4.7.3	Torque (Nm)..... : (IEC 60065, 15.4.1) & (IEC 60950-1, 4.3.6)	0.039Nm	—
4.8	Products containing coin/button cell batteries (IEC 60065, 12.7)		N/A
4.8.2	Instructional safeguard (IEC 60065, 5.4 c), 5.5.2 j))		N/A
4.8.3	Battery Compartment Construction (IEC 60065, 12.7.2)		N/A
	Means to reduce the possibility of children removing the battery..... :		—
4.8.4	Battery Compartment Mechanical Tests..... : (IEC 60065, 12.7.3)	(See Table 4.8.4)	—
4.8.5	Battery Accessibility (IEC 60065, 12.7.4)		N/A
4.9	Likelihood of fire or shock due to entry of conductive object..... : (IEC 60065, 9.1.3, 20.3.2) & (IEC 60950-1, 4.6.1)	(See Annex P)	—

5	ELECTRICALLY-CAUSED INJURY		P
5.2.1	Electrical energy source classifications..... :	(See appended table 5.2)	—
5.2.2	ES1, ES2 and ES3 limits	ES3	P
5.2.2.2	Steady-state voltage and current..... : (IEC 60065, 9.1.1.2) & (IEC 60950-1, 2.2, 2.3, 2.4)	See appended table 5.2)	—
5.2.2.3	Capacitance limits..... : (IEC 60065, 9.1.1.2) & (IEC 60950-1, 2.4)	(See appended table 5.2)	—
5.2.2.4	Single pulse limits..... : (IEC 60950-1, 2.2)	(See appended table 5.2)	—
5.2.2.5	Limits for repetitive pulses..... : (IEC 60950-1, 2.2)	(See appended table 5.2)	—
5.2.2.6	Ring signals : (IEC 60950-1, 2.3, Annex M)	(See Annex H)	—
5.2.2.7	Audio signals : (IEC 60065, 9.1.1.2) & (IEC 60950-1, 2.1.1.9)	(See Clause E.1)	—
5.3	Protection against electrical energy sources (IEC 60065, 9.1.1) & (IEC 60950-1, 2.1)		P

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons (IEC 60065, 9.1.1) & (IEC 60950-1, 2.1)		P
5.3.2.1	Accessibility to electrical energy sources and safeguards (IEC 60065, 9.1.1.3, 9.1.2, 9.1.3, 9.1.4, 9.1.5) & (IEC 60950-1, 2.1.1.1)		P
5.3.2.2	Contact requirements (IEC 60065, 9.1.1.1) & (IEC 60950-1, 2.1.1.1)		P
	a) Test with test probe from Annex V.....:		—
	b) Electric strength test potential (V).....:		—
	c) Air gap (mm)		—
5.3.2.4	Terminals for connecting stripped wire (IEC 60065, 9.1.1.4)		N/A
5.4	Insulation materials and requirements		P
5.4.1.2	Properties of insulating material (IEC 60065, 8.3) & (IEC 60950-1, 2.9.1)		P
5.4.1.3	Humidity conditioning..... (IEC 60065, 10.3) (IEC 60950-1, 2.9.1)	(See sub-clause 5.4.8)	—
5.4.1.4	Maximum operating temperature for insulating materials (IEC 60065, 7.1) & (IEC 60950-1, 4.5)	(See appended table 5.4.1.4)	—
5.4.1.5	Pollution degree..... (IEC 60065, 13.1) & (IEC 60950-1, 2.10.1.2)		—
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound (IEC 60065, 13.6, 13.7) & (IEC 60950-1, 2.10.10)		N/A
5.4.1.5.3	Thermal cycling (IEC 60065, 13.6) & (IEC 60950-1, 2.10.9)		N/A
5.4.1.6	Insulation in transformers with varying dimensions (IEC 60065, 13.2) & (IEC 60950-1, 2.10.1.5)		N/A
5.4.1.7	Insulation in circuits generating starting pulses (IEC 60950-1, 2.10.3.5)		N/A
5.4.1.8	Determination of working voltage (IEC 60065, 13.2) & (IEC 60950-1, 2.10.2)		P
5.4.1.9	Insulating surfaces (IEC 60065, 13.3.1) & (IEC 60950-1, 2.10.3.1)		P

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted (IEC 60065, 7.2) & (IEC 60950-1, 4.5.5)		P
5.4.1.10.2	Vicat softening temperature.....: (IEC 60065, 7.2)	(See appended table 5.4.1.10.2)	—
5.4.1.10.3	Ball pressure: (IEC 60950-1, 4.5.5)	(See appended table 5.4.1.10.3)	—
5.4.2	Clearances (IEC 60065, 13.3, Annex J) & (IEC 60950-1, 2.10.3, Annex G)		P
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	P
5.4.2.3	Determining clearance using required withstand voltage	(See appended table 5.4.2.3)	—
	a) a.c. mains transient voltage.....:		—
	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	(See appended table 5.4.2.4)	P
5.4.2.5	Multiplication factors for clearances and test voltages		—
5.4.3	Creepage distances.....: (IEC 60065, 13.4) & (IEC 60950-1, 2.10.4)	(See appended table 5.4.3)	—
5.4.3.1	General		P
5.4.3.3	Material Group: (IEC 60065, 13.4) & (IEC 60950-1, 2.10.4.2)		—
5.4.4	Solid insulation (IEC 60065, 8.8) & (IEC 60950-1, 2.10.5)		P
5.4.4.2	Minimum distance through insulation: (IEC 60065, 8.8) & (IEC 60950-1, 2.10.5.2)	(See appended table 5.4.4.2)	P
5.4.4.3	Insulation compound forming solid insulation (IEC 60065, 13.6, 13.7, 13.8) & (IEC 60950-1, 2.10.5.3)		N/A
5.4.4.4	Solid insulation in semiconductor devices (IEC 60065, 13.6, 13.8) & (IEC 60950-1, 2.10.5.4)		N/A
5.4.4.5	Cemented joints (IEC 60065, 13.6) & (IEC 60950-1, 2.10.5.5)		N/A
5.4.4.6	Thin sheet material (IEC 60065, 8.8) & (IEC 60950-1, 2.10.5.6)		P

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.6.1	General requirements (IEC 60065, 8.8)		P
5.4.4.6.2	Separable thin sheet material (IEC 60065, 8.8) & (IEC 60950-1, 2.10.5.7)		P
	Number of layers (pcs) :		—
5.4.4.6.3	Non-separable thin sheet material (IEC 60065, 8.21) & (IEC 60950-1, 2.10.5.8)		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material.....: (IEC 60950-1, 2.10.5.9)	(See appended Table 5.4.9)	—
5.4.4.6.5	Mandrel test (IEC 60065, 8.21) & (IEC 60950-1, Annex AA)		N/A
5.4.4.7	Solid insulation in wound components (IEC 60065, 8.16) & (IEC 60950-1, 2.10.5.11)		P
5.4.4.9	Solid insulation at frequencies >30 kHz.....:	(See appended Table 5.4.4.9)	—
5.4.5	Antenna terminal insulation (IEC 60065, 10.2) & (IEC 60950-1, 7.4)		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test (IEC 60065, 10.2) & (IEC 60950-1, 7.4.2)		N/A
	Insulation resistance (MΩ).....:		—
5.4.6	Insulation of internal wire as part of supplementary safeguard.....: (IEC 60065, 8.9) & (IEC 60950-1, 2.1.1.3)	(See appended table 5.4.4.2)	—
5.4.7	Tests for semiconductor components and for cemented joints (IEC 60065, 13.6, 13.7, 13.8) & (IEC 60950-1, 2.10.11)		N/A
5.4.8	Humidity conditioning (IEC 60065, 10.3) & (IEC 60950-1, 2.9.2)		P
	Relative humidity (%).....:	95%	—
	Temperature (°C):	40°C	—
	Duration (h):	120hrs	—
5.4.9	Electric strength test.....: (IEC 60065, 10.4) & (IEC 60950-1, 5.2)	(See appended table 5.4.9)	—
5.4.9.1	Test procedure for a solid insulation type test (IEC 60065, 10.4) & (IEC 60950-1, 5.2)		N/A
5.4.9.2	Test procedure for routine tests (IEC 60065, N.3.2) & (IEC 60950-1, 5.2.2)		N/A

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.10	Protection against transient voltages between external circuit (IEC 60065, Annex B) & (IEC 60950-1, 6.2)		N/A
5.4.10.1	Parts and circuits separated from external circuits (IEC 60950-1, 6.2.1)	(See appended table 5.4.9)	N/A
5.4.10.2	Test methods (IEC 60950-1, 6.2.2)		N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test..... : (IEC 60950-1, 6.2.2.1)	(See appended table 5.4.9)	—
5.4.10.2.3	Steady-state test..... : (IEC 60950-1, 6.2.2.2)	(See appended table 5.4.9)	—
5.4.11	Insulation between external circuits and earthed circuitry..... : (IEC 60065, Annex B) & (IEC 60950-1, 6.1)	(See appended table 5.4.9)	—
5.4.11.1	Exceptions to separation between external circuits and earth (IEC 60950-1, 6.1.2.2)		N/A
5.4.11.2	Requirements (IEC 60950-1, 6.1.2.1)		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 U_{sa} :		—
	$U_{op} = U_{peak} + U_{sp} + U_{sa}$:		—
5.5	Components as safeguards		P
5.5.1	General		P
5.5.2	Capacitors and RC units (IEC 60065, 14.3)		P
5.5.2.1	General requirement (IEC 60065, 14.3) & (IEC 60950-1, 1.5.6)		P
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector..... : (IEC 60065, 9.1.6) & (IEC 60950-1, 2.1.1.7)	(See appended table 5.5.2.2)	—
5.5.3	Transformers (IEC 60065, 14.4) & (IEC 60950-1, 1.5.4, Annex C)	(See Annex G.5.3)	P
5.5.4	Optocouplers (IEC 60065, 14.12) & (IEC 60950-1, 2.10.5.3, 2.10.5.4)	(See sub-clause 5.4 or Annex G.12)	P

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
5.5.5	Relays	(See Annex G.2)	N/A
5.5.6	Resistors (IEC 60065, 14.2) & (IEC 60950-1, 1.5.7)	(See Annex G.10)	N/A
5.5.7	SPD's (IEC 60065, 14.13) & (IEC 60950-1, 1.5.9)	(See Annex G.8)	N/A
5.5.7.1	Use of an SPD connected to reliable earthing (IEC 60065, 14.13) & (IEC 60950-1, 1.5.9.4)		N/A
5.5.7.2	Use of an SPD between mains and protective earth (IEC 60065, 14.13) & (IEC 60950-1, 1.5.9.4)		N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable..... : (IEC 60065, 10.2) & (IEC 60950-1, 1.5.7.3, 7.4)	(See Annex G.10.3)	—
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors (IEC 60065, 15.2) & (IEC 60950-1, 2.6.3, 2.6.5)		N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation (IEC 60065, 15.2) & (IEC 60950-1, 2.6.3.5)		N/A
5.6.3	Requirement for protective earthing conductors (IEC 60065, 15.2) & (IEC 60950-1, 2.6.3.2)		N/A
	Protective earthing conductor size (mm ²)		—
5.6.4	Requirement for protective bonding conductors		N/A
5.6.4.1	Protective bonding conductors (IEC 60950-1, 2.6.3.3)		N/A
	Protective bonding conductor size (mm ²)..... :		—
	Protective current rating (A)		—
5.6.4.3	Current limiting and overcurrent protective devices (IEC 60950-1, 2.6.5.2)		N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Requirement (IEC 60065, 15.2) & (IEC 60950-1, 2.6.4.2)		N/A
	Conductor size (mm ²), nominal thread diameter (mm)..... :		—
5.6.5.2	Corrosion (IEC 60065, 15.2) & (IEC 60950-1, 2.6.5.6)		N/A
5.6.6	Resistance of the protective system (IEC 60065, 15.2) & (IEC 60950-1, 2.6.3.4)		N/A

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
5.6.6.1	Requirements (IEC 60065, 15.2) & (IEC 60950-1, 2.6.3.4)		N/A
5.6.6.2	Test Method Resistance (Ω)..... : (IEC 60065, 15.2) & (IEC 60950-1, 2.6.3.4)	(See appended table 5.6.6.2)	—
5.6.7	Reliable earthing (IEC 60065, 14.13) & (IEC 60950-1, 1.5.9.4, 5.1.7.1)		N/A
5.7	Prospective touch voltage, touch current and protective conductor current		P
5.7.2	Measuring devices and networks		P
5.7.2.1	Measurement of touch current..... : (IEC 60065, 9.1.1.2) & (IEC 60950-1, 5.1.4)	(See appended table 5.7.4)	—
5.7.2.2	Measurement of prospective touch voltage (IEC 60065, 9.1.1.2) & (IEC 60950-1, 1.4.9)		P
5.7.3	Equipment set-up, supply connections and earth connections (IEC 60065, 9.1.1.2) & (IEC 60950-1, 5.1.3)		N/A
	System of interconnected equipment (separate connections/single connection)..... :		—
	Multiple connections to mains (one connection at a time/simultaneous connections)..... :		—
5.7.4	Earthed conductive accessible parts..... : (IEC 60065, 9.1.1.2) & (IEC 60950-1, 5.1.6)	(See appended Table 5.7.4)	N/A
5.7.5	Protective conductor current (IEC 60950-1, 5.1.7)		N/A
	Supply Voltage (V)..... :		—
	Measured current (mA)..... :		—
	Instructional Safeguard..... :	(See F.4 and F.5)	—
5.7.6	Prospective touch voltage and touch current due to external circuits (IEC 60950-1, 5.1.8)		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 (IEC 60950-1, 5.1.8.1)		N/A
5.7.7	Summation of touch currents from external circuits (IEC 60950-1, 5.1.8.2)		N/A
	a) Equipment with earthed external circuits Measured current (mA)..... :		—
	b) Equipment whose external circuits are not referenced to earth. Measured current (mA)..... :		—

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
6	ELECTRICALLY- CAUSED FIRE		P
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		P
6.2.2	Power source circuit classifications		P
6.2.2.1	General		P
6.2.2.2	Power measurement for worst-case load fault..... : (IEC 60065, 4.3.1) & (IEC 60950-1, 2.5)	(See appended table 6.2.2)	—
6.2.2.3	Power measurement for worst-case power source fault..... : (IEC 60065, 4.3.1) & (IEC 60950-1, 2.5)	(See appended table 6.2.2)	—
6.2.2.4	PS1	(See appended table 6.2.2)	—
6.2.2.5	PS2	(See appended table 6.2.2)	—
6.2.2.6	PS3	(See appended table 6.2.2)	—
6.2.3	Classification of potential ignition sources	PS2	P
6.2.3.1	Arcing PIS	(See appended table 6.2.3.1)	—
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	—
6.3	Safeguards against fire under normal operating and abnormal operating conditions		P
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials..... : (IEC 60065, 7.1) & (IEC 60950-1, 4.5.3)	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	—
6.3.1 (b)	Combustible materials outside fire enclosure (IEC 60950-1, 4.7.3.3)		P
6.4	Safeguards against fire under single fault conditions		P
6.4.1	Safeguard Method (IEC 60950-1, 4.7.1)		N/A
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits (IEC 60065, 11.2, 20.2)		N/A
6.4.3.1	General		P
6.4.3.2	Supplementary Safeguards (IEC 60065, 20.2)		N/A
	Special conditions if conductors on printed boards are opened or peeled		N/A
6.4.3.3	Single Fault Conditions..... : (IEC 60065, 11.2)	(See appended table 6.4.3)	—
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
6.4.5	Control of fire spread in PS2 circuits (IEC 60950-1, 4.7.3.4)		P
6.4.5.2	Supplementary safeguards : (IEC 60950-1, 4.7.3.4)	(See appended tables 4.1.2 and Annex G)	—
6.4.6	Control of fire spread in PS3 circuit (IEC 60950-1, 4.7.3.4)		N/A
6.4.7	Separation of combustible materials from a PIS (IEC 60065, 20.2.5) & (IEC 60950-1, 4.7.3.4)		N/A
6.4.7.1	General..... : (IEC 60065, 20.2.5) & (IEC 60950-1, 4.7.3.4)	(See tables 6.2.3.1 and 6.2.3.2)	—
6.4.7.2	Separation by distance (IEC 60065, 20.2.5) & (IEC 60950-1, 4.7.3.4)		N/A
6.4.7.3	Separation by a fire barrier (IEC 60065, 20.2.5) & (IEC 60950-1, 4.7.3.4)		N/A
6.4.8	Fire enclosures and fire barriers (IEC 60065, 20.2.5, 20.3) & (IEC 60950-1, 4.7.2, 4.7.3)		P
6.4.8.1	Fire enclosure and fire barrier material properties (IEC 60065, 20.2.5, 20.3) & (IEC 60950-1, 4.7.3.2, 4.7.3.4)		N/A
6.4.8.2.1	Requirements for a fire barrier (IEC 60065, 20.2.5) & (IEC 60950-1, 4.7.3.4)		N/A
6.4.8.2.2	Requirements for a fire enclosure (IEC 60065, 20.3) & (IEC 60950-1, 4.7.3.2)		P
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		P
6.4.8.3.1	Fire enclosure and fire barrier openings (IEC 60065, 20.3) & (IEC 60950-1, 4.6.1, 4.6.2)		P
6.4.8.3.2	Fire barrier dimensions (IEC 60065, 20.2.5) & (IEC 60950-1, 4.6.2)		N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm) : (IEC 60065, 20.3) & (IEC 60950-1, 4.6.1)		—
	Needle Flame test		N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm) : (IEC 60065, 20.3) & (IEC 60950-1, 4.6.2)		—
	Flammability tests for the bottom of a fire enclosure : (IEC 60065, 20.3) & (IEC 60950-1, 4.6.2)		—

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)..... : (IEC 60950-1, 4.6.3)		—
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating..... : (IEC 60065, 20.2.5) & (IEC 60950-1, 4.7.3.1, 4.7.3.2)		—
6.5	Internal and external wiring		P
6.5.1	Requirements (IEC 60065, 16.3, 20.2.3) & (IEC 60950-1, 4.7.3.3, 4.7.3.4)		P
6.5.2	Cross-sectional area (mm ²) :		—
6.5.3	Requirements for interconnection to building wiring : (IEC 60950-1, 2.5, 6.3)	(See Annex Q.)	—
6.6	Safeguards against fire due to connection to additional equipment (IEC 60950-1, 3.5.4)		P
	External port limited to PS2 or complies with Clause Q.1		P
7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		N/A
7.2	Reduction of exposure to hazardous substances		N/A
7.3	Ozone exposure (IEC 60950-1, 1.7.2.6)		N/A
7.4	Use of personal safeguards (PPE)		N/A
	Personal safeguards and instructions..... :		—
7.5	Use of instructional safeguards and instructions		P
	Instructional safeguard (ISO 7010)..... :		—
7.6	Batteries..... : (IEC 60065, 14.10) & (IEC 60950-1, 4.3.8)	(See Annex M)	—
8	MECHANICALLY-CAUSED INJURY		P
8.1	General		P
8.2	Mechanical energy source classifications	MS1	P
8.3	Safeguards against mechanical energy sources		N/A
8.4	Safeguards against parts with sharp edges and corners (IEC 60065, 19.5) & (IEC 60950-1, 4.3.1)		N/A

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
8.4.1	Safeguards (IEC 60950-1, 4.3.1)		N/A
8.5	Safeguards against moving parts		N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment (IEC 60065, 14.10.3) & (IEC 60950-1, 4.4)		N/A
8.5.2	Instructional Safeguard..... : (IEC 60950-1, 4.4.5.2)		—
8.5.4	Special categories of equipment comprising moving parts		N/A
8.5.4.1	Large data storage equipment (IEC 60950-23)		N/A
8.5.4.2	Equipment having electromechanical device for destruction of media (IEC 60950-1, Annex EE)		N/A
8.5.4.2.1	Safeguards and Safety Interlocks..... : (IEC 60950-1, EE.3)	(See Annex F.4 and Annex K)	—
8.5.4.2.2	Instructional safeguards against moving parts		N/A
	Instructional Safeguard..... : (IEC 60950-1, EE.2)		—
8.5.4.2.3	Disconnection from the supply (IEC 60950-1, EE.4)		N/A
8.5.4.2.4	Probe type and force (N)..... : (IEC 60950-1, EE.5)		—
8.5.5	High Pressure Lamps (IEC 60950-1, 4.2.9)		N/A
8.5.5.1	Energy Source Classification		N/A
8.5.5.2	High Pressure Lamp Explosion Test..... : (IEC 60950-1, 4.2.9.2)	(See appended table 8.5.5.2)	—
8.6	Stability (IEC 60065, 19) & (IEC 60950-1, 4.1)		N/A
8.6.1	Product classification		N/A
	Instructional Safeguard..... : (IEC 60065, 5.5.2)		—
8.6.2	Static stability (IEC 60065, 19.1) & (IEC 60950-1, 4.1)		N/A
8.6.2.2	Static stability test (IEC 60065, 19.2) & (IEC 60950-1, 4.1)		N/A
	Applied Force..... : (IEC 60065, 19.2.2)		—

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
8.6.2.3	Downward Force Test (IEC 60065, 19.3) & (IEC 60950-1, 4.1)		N/A
8.6.3	Relocation stability test (IEC 60065, 19.2)		N/A
	Unit configuration during 10° tilt..... :		—
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force)..... :		—
	Position of feet or movable parts..... :		—
8.7	Equipment mounted to wall or ceiling (IEC 60065, 19.7) & (IEC 60950-1, 4.2.10)		N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface) :		—
8.7.2	Direction and applied force..... :		—
8.8	Handles strength		N/A
8.8.1	Classification		N/A
8.8.2	Applied Force :		—
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)..... :		—
8.11	Mounting means for rack mounted equipment (IEC 60950-1, Annex DD)		N/A
8.11.1	General (IEC 60950-1, DD.1)		N/A
8.11.2	Product Classification		N/A

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
8.11.3	Mechanical strength test, variable N : (IEC 60950-1, DD.2)		—
8.11.4	Mechanical strength test 250N, including end stops (IEC 60950-1, DD.3)		N/A
8.12	Telescoping or rod antennas..... : (IEC 60065, 12.6)	(See Annex T)	—
	Button/Ball diameter (mm)..... : (IEC 60065, 12.6)		—

9	THERMAL BURN INJURY		P
9.2	Thermal energy source classifications (IEC 60065, 7.1, 11.2) & (IEC 60950-1, 4.5.4)	External enclosure: TS1	P
9.3	Safeguard against thermal energy sources (IEC 60065, 7.1, 11.2) & (IEC 60950-1, 4.5.4)		N/A
9.4	Requirements for safeguards		N/A
9.4.1	Equipment safeguard (IEC 60065, 7.1, 11.2) & (IEC 60950-1, 4.5.4)		N/A
9.4.2	Instructional safeguard : (IEC 60065, 7.1, 11.2) & (IEC 60950-1, 4.5.4)		—

10	RADIATION		N/A
10.2	Radiation energy source classification		N/A
10.2.1	General classification		N/A
10.3	Protection against laser radiation (IEC 60065, 6.2) & (IEC 60950-1, 4.3.13.5.1)		N/A
	Laser radiation that exists equipment..... : (IEC 60065, 6.2) & (IEC 60950-1, 4.3.13.5.1)		—
	Normal, abnormal, single-fault..... : (IEC 60065, 6.2) & (IEC 60950-1, 4.3.13.5.1)	(See attached laser test report)	—
	Instructional safeguard..... : (IEC 60065, 6.2) & (IEC 60950-1, 4.3.13.5.1)		—
	Tool..... : (IEC 60065, 6.2) & (IEC 60950-1, 4.3.13.5.1)		—
10.4	Protection against visible, infrared, and UV radiation (IEC 60065, 6.3) & (IEC 60950-1, 4.3.13.4, 4.3.13.5.2)		N/A
10.4.1	General		N/A
10.4.1.a)	RS3 for Ordinary and instructed persons..... : (IEC 60065, 6.3) & (IEC 60950-1, 4.3.13.4, 4.3.13.5.2)		—
10.4.1.b)	RS3 accessible to a skilled person..... : (IEC 60065, 6.3) & (IEC 60950-1, 4.3.13.4, 4.3.13.5.2)		—
	Personal safeguard (PPE) instructional safeguard... : (IEC 60065, 6.3) & (IEC 60950-1, 4.3.13.4, 4.3.13.5.2)		—
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1... : (IEC 60065, 6.3) & (IEC 60950-1, 4.3.13.4, 4.3.13.5.2)		—

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
10.4.1.d)	Normal, abnormal, single-fault conditions	(See appended table B.3 & B.4)	—
10.4.1.e)	Enclosure material employed as safeguard is opaque		—
10.4.1.f)	UV attenuation.....		—
10.4.1.g)	Materials resistant to degradation UV.....		—
10.4.1.h)	Enclosure containment of optical radiation.....		—
10.4.1.i)	Exempt Group under normal operating conditions.:		—
10.4.2	Instructional safeguard.....		—
10.5	Protection against x-radiation (IEC 60065, 6.1) & (IEC 60950-1, 4.3.13.2)		N/A
10.5.1	X- radiation energy source that exists equipment....	(See appended table B.3 & B.4)	—
	Normal, abnormal, single fault conditions		N/A
	Equipment safeguards.....		—
	Instructional safeguard for skilled person.....		—
10.5.3	Most unfavourable supply voltage to give maximum radiation..... (IEC 60950-1, Annex H)		—
	Abnormal and single-fault condition.....	(See appended table B.3 & B.4)	—
	Maximum radiation (pA/kg).....		—
10.6	Protection against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification		N/A
	Acoustic output, dB(A).....		—
	Output voltage, unweighted r.m.s.....		—
10.6.4	Protection of persons		N/A
	Instructional safeguards.....		—
	Equipment safeguard prevent ordinary person to RS2.....		—
	Means to actively inform user of increase sound pressure.....		—
	Equipment safeguard prevent ordinary person to RS2.....		—
10.6.5	Requirements for listening devices (headphones, earphones, etc.)		N/A
10.6.5.1	Corded passive listening devices with analogue input		N/A
	Input voltage with 94 dB(A) LAeq acoustic pressure output.....		—

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
10.6.5.2	Corded listening devices with digital input		
	Maximum dB(A)..... :		—
10.6.5.3	Cordless listening device		
	Maximum dB(A)..... :		—

B	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		P
B.2	Normal Operating Conditions		P
B.2.1	General requirements..... : (IEC 60065, 4.2.1) & (IEC 60950-1, 1.4.4)	(See Test Item Particulars and appended test tables)	—
	Audio Amplifiers and equipment with audio amplifiers..... : (IEC 60065, 4.2.5) & (IEC 60950-1, 4.4)	(See Annex E)	—
B.2.3	Supply voltage and tolerances (IEC 60065, 4.2.2) & (IEC 60950-1, 1.4.5)		P
B.2.5	Input test..... : (IEC 60065, 4.2, 5.2 g, h) & (IEC 60950-1, 1.6.2)	(See appended table B.2.5)	—
B.3	Simulated abnormal operating conditions		P
B.3.1	General requirements..... : (IEC 60065, 4.3) & (IEC 60950-1, 5.3.1)	(See appended table B.3)	—
B.3.2	Covering of ventilation openings (IEC 60065, 4.3.11) & (IEC 60950-1, 5.3.1)		N/A
B.3.3	D.C. mains polarity test (IEC 60065, 4.2.2) & (IEC 60950-1, 5.3.1)		N/A
B.3.4	Setting of voltage selector..... : (IEC 60065, 4.3.14) & (IEC 60950-1, 5.3.1)		—
B.3.5	Maximum load at output terminals..... : (IEC 60065, 4.3.10) & (IEC 60950-1, 5.3.7)		—
B.3.6	Reverse battery polarity (IEC 60065, 4.3.12) & (IEC 60950-1, 4.3.8)		N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2. (IEC 60065, 4.3.6) & (IEC 60950-1, 5.3.6)		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions (IEC 60065, 11) & (IEC 60950-1, 5.3.9)		N/A
B.4	Simulated single fault conditions 错误! 未指定书签。 (IEC 60065, 4.3) & (IEC 60950-1, 1.4.14)		P

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
B.4.2	Temperature controlling device open or short-circuited..... :	(See appended table B.4)	—
B.4.3	Motor tests (IEC 60065, 4.3.7) & (IEC 60950-1, 5.3.2)		N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature : (IEC 60065, 4.3.7) & (IEC 60950-1, 5.3.2)	(See Clause G.5)	—
B.4.4	Short circuit of functional insulation (IEC 60950-1, 5.3.4)		P
B.4.4.1	Short circuit of clearances for functional insulation		P
B.4.4.2	Short circuit of creepage distances for functional insulation		P
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 (IEC 60065, 4.3.4) & (IEC 60950-1, 5.3.7)		P
B.4.6	Short circuit or disconnect of passive components (IEC 60065, 4.3.5) & (IEC 60950-1, 5.3.7)		P
B.4.7	Continuous operation of components (IEC 60065, 4.3.8) & (IEC 60950-1, 5.3.5)		P
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions (IEC 60065, 11) & (IEC 60950-1, 5.3.9)		N/A
B.4.9	Battery charging under single fault conditions..... : (IEC 60065, 14.11.3) & (IEC 60950-1, 4.3.8)	(See Annex M)	—
C	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation (IEC 60950-1, 4.3.13.3)		N/A
C.1.2	Requirements		N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test (IEC 60950-1, Annex Y)		N/A
C.2.1	Test apparatus (IEC 60950-1, Y.1)		N/A
C.2.2	Mounting of test samples (IEC 60950-1, Y.2)		N/A

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
C.2.3	Carbon-arc light-exposure apparatus (IEC 60950-1, Y.3)		N/A
C.2.4	Xenon-arc light exposure apparatus (IEC 60950-1, Y.4)		N/A
D	TEST GENERATORS		N/A
D.1	Impulse test generators (IEC 60065, Annex K) & (IEC 60950-1, N.1)		N/A
D.2	Antenna interface test generator (IEC 60950-1, N.2)		N/A
D.3	Electronic pulse generator		N/A
E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		N/A
E.1	Audio amplifier normal operating conditions (IEC 60065, 4.2.5) & (IEC 60950-1, 4.5.1)		N/A
	Audio signal voltage (V)..... :		—
	Rated load impedance (Ω)		—
E.2	Audio amplifier abnormal operating conditions (IEC 60065, 4.3.6) & (IEC 60950-1, 5.3.6)		N/A
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		P
F.1	General requirements (IEC 60065, 5.1, 5.2, 5.3) & (IEC 60950-1, 1.7.2.1)		P
	Instructions – Language		—
F.2	Letter symbols and graphical symbols (IEC 60065, 5.1)		P
F.2.1	Letter symbols according to IEC60027-1 (IEC 60065, 5.1)		P
F.2.2	Graphic symbols IEC, ISO or manufacturer specific (IEC 60065, 5.1) & (IEC 60950-1, 1.7.1.1)		P
F.3	Equipment markings		
F.3.1	Equipment marking locations (IEC 60065, 5.1) & (IEC 60950-1, 1.7.1.2)		P
F.3.2	Equipment identification markings (IEC 60065, 5.2) & (IEC 60950-1, 1.7.1.2)		P
F.3.2.1	Manufacturer identification		—
	(IEC 60065, 5.2 a)) & (IEC 60950-1, 1.7.1.2)		

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
F.3.2.2	Model identification : (IEC 60065, 5.2 b)) & (IEC 60950-1, 1.7.1.2)		—
F.3.3	Equipment rating markings (IEC 60065, 5.2) & (IEC 60950-1, 1.7.1.1)		P
F.3.3.1	Equipment with direct connection to mains (IEC 60065, 5.2 e)) & (IEC 60950-1, 1.7.1.1)		P
F.3.3.2	Equipment without direct connection to mains (IEC 60065, 5.2 e)) & (IEC 60950-1, 1.7.1.1)		N/A
F.3.3.3	Nature of supply voltage..... : (IEC 60065, 5.2 d)) & (IEC 60950-1, 1.7.1.1)		—
F.3.3.4	Rated voltage..... : (IEC 60065, 5.2 e)) & (IEC 60950-1, 1.7.1.1)		—
F.3.3.4	Rated frequency..... : (IEC 60065, 5.2 f)) & (IEC 60950-1, 1.7.1.1)		—
F.3.3.6	Rated current or rated power..... : (IEC 60065, 5.2 g, h)) & (IEC 60950-1, 1.7.1.1)		—
F.3.3.7	Equipment with multiple supply connections (IEC 60950-1, 1.7.1.1)		N/A
F.3.4	Voltage setting device (IEC 60065, 5.2 e)) & (IEC 60950-1, 1.7.4)		N/A
F.3.5	Terminals and operating devices		N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings: (IEC 60065, 5.3 c)) & (IEC 60950-1, 1.7.5)		—
F.3.5.2	Switch position identification marking..... : (IEC 60065, 5.5.3) & (IEC 60950-1, 1.7.8.3)		—
F.3.5.3	Replacement fuse identification and rating markings : (IEC 60065, 14.6.3.2) & (IEC 60950-1, 1.7.6)		—
F.3.5.4	Replacement battery identification marking..... : (IEC 60065, 5.5.2 c)) & (IEC 60950-1, 1.7.13)		—
F.3.5.5	Terminal marking location (IEC 60950-1, 1.7.7.1)		N/A
F.3.6	Equipment markings related to equipment classification		P
F.3.6.1	Class I Equipment		N/A
F.3.6.1.1	Protective earthing conductor terminal (IEC 60065, 5.3 a)) & (IEC 60950-1, 1.7.7.1)		N/A
F.3.6.1.2	Neutral conductor terminal (IEC 60950-1, 1.7.7.2)		N/A

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
F.3.6.1.3	Protective bonding conductor terminals (IEC 60950-1, 1.7.7.1)		N/A
F.3.6.2	Class II equipment (IEC60417-5172)		P
F.3.6.2.1	Class II equipment with or without functional earth (IEC 60065, 5.2 c)) & (IEC 60950-1, 1.7.7.2)		N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking (IEC 60950-1, 2.6.2)	 used	P
F.3.7	Equipment IP rating marking: (IEC 60065, A.5)	IP20	—
F.3.8	External power supply output marking (IEC 60065, 5.3 c))		N/A
F.3.9	Durability, legibility and permanence of marking (IEC 60065, 5.1) & (IEC 60950-1, 1.7.11)		P
F.3.10	Test for permanence of markings (IEC 60065, 5.1) & (IEC 60950-1, 1.7.11)		P
F.4	Instructions (IEC 60065, 5.4, 5.5.2) & (IEC 60950-1, 1.7.2.1, 1.7.14, 5.1.7, 3,4,3)		P
	a) Equipment for use in locations where children not likely to be present – marking		P
	b) Instructions given for installation or initial use		P
	c) Equipment intended to be fastened in place		P
	d) Equipment intended for use only in restricted access area		P
	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		N/A
	g) Protective earthing conductor current exceeding ES 2 limits		N/A
	h) Symbols used on equipment		N/A
	i) Permanently connected equipment not provided with all-pole mains switch		N/A
	j) Replaceable components or modules providing safeguard function		N/A
F.5	Instructional safeguards (IEC 60065, 5.4, 5.5)		P
	Where “instructional safeguard” is referenced in the test report it specifies the required elements, location of marking and/or instruction		P

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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G	COMPONENTS	P
G.1	Switches (IEC 60950-1, 2.8.7)	N/A
G.1.1	General requirements (IEC 60065, 14.7)	N/A
G.1.2	Ratings, endurance, spacing, maximum load (IEC 60065, 14.7)	N/A
G.2	Relays (IEC 60065, 14.4.3) & (IEC 60950-1, 2.8.7)	N/A
G.2.1	General requirements	N/A
G.2.2	Overload test (IEC 60950-1, 2.8.7.2)	N/A
G.2.3	Relay controlling connectors supply power	N/A
G.2.4	Mains relay, modified as stated in G.2	N/A
G.3	Protection Devices	P
G.3.1	Thermal cut-offs (IEC 60065, 14.6.2.2)	N/A
G.3.1.1a) & b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b) (IEC 60065, 14.6.2.2 a))	N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c) (IEC 60065, 14.6.2.2 b))	N/A
G.3.1.2	Thermal cut-off connections maintained and secure	N/A
G.3.2	Thermal links (IEC 60065, 14.6.2.3)	N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691 (IEC 60065, 14.6.2.3 a))	N/A
G.3.2.1b)	Thermal links tested as part of the equipment (IEC 60065, 14.6.2.3 b))	N/A
	Aging hours (H)..... :	—
	Single Fault Condition..... :	—
	Test Voltage (V) and Insulation Resistance (Ω)..... :	—
G.3.3	PTC Thermistors (IEC 60065, 14.6.4) & (IEC 60950-1, 2.5)	N/A
G.3.4	Overcurrent protection devices (IEC 60065, 14.6.3) & (IEC 60950-1, 2.7)	P

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.5 (IEC 60065, 14.6.5)		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided (IEC 60065, 14.6.5)		P
G.3.5.2	Single faults conditions..... : (IEC 60065, 14.6.5)	(See appended Table B.4)	—
G.4	Connectors		N/A
G.4.1	Spacings (IEC 60950-1, 2.10.3.1, 2.10.4.3)		N/A
G.4.2	Mains connector configuration : (IEC 60065, 15.1) & (IEC 60950-1, 3.2.4)		—
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely (IEC 60065, 15.1.2) & (IEC 60950-1, 4.3.5)		N/A
G.5	Wound Components		P
G.5.1	Wire insulation in wound components..... : (See Annex J)		—
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90° (IEC 60065, 8.16) & (IEC 60950-1, 2.10.5.12)		P
G.5.1.2 b)	Construction subject to routine testing (IEC 60950-1, 2.10.5.11)		N/A
G.5.2	Endurance test on wound components (IEC 60065, 8.17)		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test (IEC 60065, 8.17 a))		N/A
	Time (s)..... :		—
	Temperature (°C)..... :		—
G.5.2.3	Wound Components supplied by mains (IEC 60065, 8.17 d))		N/A
G.5.3	Transformers (IEC 60950-1, 1.5.4)		P
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)..... : (IEC 60065, 14.4.3)		—
	Position..... :		—
	Method of protection :		—
G.5.3.2	Insulation		P

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
	Protection from displacement of windings.....: (IEC 60065, 14.4) & (IEC 60950-1, C.2)		—
G.5.3.3	Overload test.....:	(See appended table B.3)	—
G.5.3.3.1	Test conditions (IEC 60950-1, C.1)		P
G.5.3.3.2	Winding Temperatures testing in the unit (IEC 60065, 11.2) & (IEC 60950-1, C.1)		P
G.5.3.3.3	Winding Temperatures - Alternative test method		N/A
G.5.4	Motors		N/A
G.5.4.1	General requirements (IEC 60065, 4.3.7, 14.10) & (IEC 60950-1, B.1)		N/A
	Position		—
G.5.4.2	Test conditions (IEC 60065, 4.3.7, 14.10) & (IEC 60950-1, B.2)		N/A
G.5.4.3	Running overload test (IEC 60950-1, B.4)		N/A
G.5.4.4	Locked-rotor overload test (IEC 60065, 4.3.7) & (IEC 60950-1, B.5)		N/A
	Test duration (days)		—
G.5.4.5	Running overload test for d.c. motors in secondary circuits (IEC 60950-1, B.6)		N/A
G.5.4.5.2	Tested in the unit (IEC 60950-1, B.6.2)		N/A
	Electric strength test (V).....:		—
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)		—
	Electric strength test (V).....:		—
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits (IEC 60065, 4.3.7) & (IEC 60950-1, B.7)		N/A
G.5.4.6.2	Tested in the unit (IEC 60950-1, B.7.2)		N/A
	Maximum Temperature		—
	Electric strength test (V)		—
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h).....:		—
	(IEC 60950-1, B.7.3)		

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
	Electric strength test (V)..... :		—
G.5.4.7	Motors with capacitors (IEC 60950-1, B.8)		N/A
G.5.4.8	Three-phase motors (IEC 60950-1, B.9)		N/A
G.5.4.9	Series motors (IEC 60950-1, B.10)		N/A
	Operating voltage :		—
G.6	Wire Insulation		P
G.6.1	General (IEC 60065, 8.16) & (IEC 60950-1, 2.10.5.12)		P
G.6.2	Solvent-based enamel wiring insulation (IEC 60065, 8.1) & (IEC 60950-1, 2.10.5.13)		P
G.7	Mains supply cords		N/A
G.7.1	General requirements (IEC 60065, 16.1, 16.2) & (IEC 60950-1, 3.2.5.1)		N/A
	Type..... :		—
	Rated current (A)..... :		—
	Cross-sectional area (mm ²), (AWG)..... :		—
G.7.2	Compliance and test method (IEC 60065, 16.2) & (IEC 60950-1, 3.2.5.1)		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 (IEC 60065, 16.5) & (IEC 60950-1, 3.2.6)		N/A
	Strain relief test force (N)..... :		—
G.7.3.2.2	Strain relief mechanism failure (IEC 60950-1, 3.2.6)		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm)..... : (IEC 60065, 16.5) & (IEC 60950-1, 3.2.7)		—
G.7.3.2.4	Strain relief comprised of polymeric material (IEC 60065, 16.5) & (IEC 60950-1, 3.2.6, 3.2.7)		N/A
G.7.4	Cord Entry..... : (IEC 60950-1, 3.1.4, 3.2.7)	(See appended table 5.4.11.1)	—
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements (IEC 60950-1, 3.2.8)		N/A

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
G.7.5.2	Mass (g)		—
	Diameter (m).....		—
	Temperature (°C).....		—
G.7.6	Supply wiring space (IEC 60950-1, 3.2.9)		N/A
G.7.6.2	Stranded wire (IEC 60950-1, 3.3.8)		N/A
G.7.6.2.1	Test with 8 mm strand (IEC 60950-1, 3.3.8)		N/A
G.8	Varistors		P
G.8.1	General requirements	Approved varistors used	P
G.8.2	Safeguard against shock (IEC 60065, 14.13) & (IEC 60950-1, Annex Q)		P
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test..... (IEC 60065, 14.13)	(See appended table B.3)	—
G.8.3.3	Temporary overvoltage.....	(See appended table B.3)	—
G.9	Integrated Circuit (IC) Current Limiters (IEC 60950-1, Annex CC)		N/A
G.9.1 a)	Manufacturer defines limit at max. 5A. (IEC 60950-1, CC.1)		N/A
G.9.1 b)	Limiters do not have manual operator or reset (IEC 60950-1, CC.1)		N/A
G.9.1 c)	Supply source does not exceed 250 VA		—
G.9.1 d)	IC limiter output current (max. 5A)..... (IEC 60950-1, CC.1)		—
G.9.1 e)	Manufacturers' defined drift		—
G.9.2	Test Program 1 (IEC 60950-1, CC.2)		N/A
G.9.3	Test Program 2 (IEC 60950-1, CC.3)		N/A
G.9.4	Test Program 3 (IEC 60950-1, CC.4)		N/A
G.10	Resistors (IEC 60065, 14.2) & (IEC 60950-1, 1.5.7)		N/A

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
G.10.1	General requirements (IEC 60065, 14.2) & (IEC 60950-1, 1.5.7.1)		N/A
G.10.2	Resistor test (IEC 60065, 14.2) & (IEC 60950-1, 1.5.7.2)		N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable (IEC 60065, 14.2) & (IEC 60950-1, 1.5.7.3)		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 (IEC 60950-1, 1.5.7.3)		N/A
G.11	Capacitor and RC units (IEC 60065, 14.3) & (IEC 60950-1, 1.5.6)		P
G.11.1	General requirements (IEC 60065, 14.3.1) & (IEC 60950-1, 1.5.6)	Approved CX1 and CY1 used	P
G.11.2	Conditioning of capacitors and RC units (IEC 60065, 14.3.1) & (IEC 60950-1, 1.5.6)		P
G.11.3	Rules for selecting capacitors (IEC 60065, 14.3.2) & (IEC 60950-1, 1.5.6)		P
G.12	Optocouplers		P
	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)..... : (IEC 60065, 14.12) & (IEC 60950-1, 2.10.5.4)	Approved U2 used	P
	Type test voltage V _{ini}		—
	Routine test voltage, V _{ini,b}		—
G.13	Printed boards (IEC 60065, 13.5) & (IEC 60950-1, 2.10.6)		P
G.13.1	General requirements		P
G.13.2	Uncoated printed boards (IEC 60065, 13.5.1) & (IEC 60950-1, 2.10.6.1)		P
G.13.3	Coated printed boards (IEC 60065, 13.5.2) & (IEC 60950-1, 2.10.6.2)		N/A
G.13.4	Insulation between conductors on the same inner surface (IEC 60950-1, 2.10.6.3)		N/A

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
	Compliance with cemented joint requirements (Specify construction).....: (IEC 60065, 13.5.2, 13.6, 13.7) & (IEC 60950-1, 2.10.5.5)		—
G.13.5	Insulation between conductors on different surfaces (IEC 60065, 13.5.1) & (IEC 60950-1, 2.10.6.4)		N/A
	Distance through insulation.....: (See appended table 5.4.4.5)		—
	Number of insulation layers (pcs) :		—
G.13.6	Tests on coated printed boards (IEC 60065, 13.5.2) & (IEC 60950-1, 2.10.8)		N/A
G.13.6.1	Sample preparation and preliminary inspection (IEC 60950-1, 2.10.8.1)		N/A
G.13.6.2a)	Thermal conditioning (IEC 60950-1, 2.10.8.2)		N/A
G.13.6.2b)	Electric strength test (IEC 60950-1, 2.10.8.3)		N/A
G.13.6.2c)	Abrasion resistance test (IEC 60950-1, 2.10.8.4)		N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements: (IEC 60950-1, 2.10.7)	(See G.13)	—
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)		N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours		N/A
b)	Impulse test using circuit 2 with Uc = to transient voltage:		—

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes		N/A
C2)	Test voltage		—
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer		N/A
D2)	Capacitance		—
D3)	Resistance		—

H	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General (IEC 60950-1, M.1)		N/A
H.2	Method A (IEC 60950-1, M.2)		N/A
H.3	Method B (IEC 60950-1, M.3)		N/A
H.3.1	Ringling signal (IEC 60950-1, M.3.1)		N/A
H.3.1.1	Frequency (Hz) (IEC 60950-1, M.3.1.1)		—
H.3.1.2	Voltage (V) (IEC 60950-1, M.3.1.2)		—
H.3.1.3	Cadence, time (s) and voltage (V) (IEC 60950-1, M.3.1.3)		—
H.3.1.4	Single fault current (mA):..... (IEC 60950-1, M.3.1.4)		—
H.3.2	Tripping device and monitoring voltage..... (IEC 60950-1, M.3.2)		—
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with (IEC 60950-1, M.3.2.1)		N/A
H.3.2.2	Tripping device (IEC 60950-1, M.3.2.2)		N/A
H.3.2.3	Monitoring voltage (V)..... (IEC 60950-1, M.3.2.3)		—

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict

J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		P
	General requirements (IEC 60065, Annex H) & (IEC 60950-1, Annex U)	(See separate test report)	P

K	SAFETY INTERLOCKS		N/A
K.1	General requirements (IEC 60065, 14.8) & (IEC 60950-1, 2.8.1, 2.8.2)		N/A
K.2	Components of safety interlock safeguard mechanism (IEC 60950-1, 2.8.7)	(See Annex G)	—
K.3	Inadvertent change of operating mode (IEC 60950-1, 2.8.3)		N/A
K.4	Interlock safeguard override (IEC 60950-1, 2.8.6)		N/A
K.5	Fail-safe (IEC 60950-1, 2.8.4)		N/A
	Compliance.....	(See appended table B.4)	—
K.6	Mechanically operated safety interlocks (IEC 60950-1, 2.8.5)		N/A
K.6.1	Endurance requirement (IEC 60950-1, 2.8.5)		N/A
K.6.2	Compliance and Test method..... (IEC 60950-1, 2.8.5)		—
K.7	Interlock circuit isolation (IEC 60950-1, 2.8.7)		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location) (IEC 60950-1, 2.8.7.1, 2.8.7.3)		—
K.7.2	Overload test, Current (A)..... (IEC 60950-1, 2.8.7.2)		—
K.7.3	Endurance test (IEC 60950-1, 2.8.7.3)		N/A
K.7.4	Electric strength test (IEC 60950-1, 2.8.7.4)	(See appended table 5.4.11)	—

L	DISCONNECT DEVICES		P
L.1	General requirements (IEC 60065, 5.5.3) & (IEC 60950-1, 3.4.1, 3.4.2)	Integrated mains plug as disconnect device	P

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
L.2	Permanently connected equipment (IEC 60065, 5.5.3) & (IEC 60950-1, 3.4.3)		N/A
L.3	Parts that remain energized (IEC 60065, 5.5.3) & (IEC 60950-1, 3.4.4)		N/A
L.4	Single phase equipment (IEC 60065, 5.5.3) & (IEC 60950-1, 3.4.6)		P
L.5	Three-phase equipment (IEC 60065, 8.18) & (IEC 60950-1, 3.4.7)		N/A
L.6	Switches as disconnect devices (IEC 60065, 5.5.3) & (IEC 60950-1, 3.4.8)		N/A
L.7	Plugs as disconnect devices (IEC 60065, 5.5.3) & (IEC 60950-1, 3.4.9)		P
L.8	Multiple power sources (IEC 60950-1, 3.4.11)		N/A

M	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		N/A
M.1	General requirements (IEC 60065, 5.5.2 c)) & (IEC 60950-1, 1.7.13)		N/A
M.2	Safety of batteries and their cells (IEC 60065, 14.11.1) & (IEC 60950-1, 4.3.8)		N/A
M.2.1	Requirements (IEC 60950-1, 4.3.8)		N/A
M.2.2	Compliance and test method (identify method)..... : (IEC 60950-1, 4.3.8)		—
M.3	Protection circuits (IEC 60950-1, 4.3.8)		N/A
M.3.1	Requirements (IEC 60950-1, 4.3.8)		N/A
M.3.2	Tests (IEC 60950-1, 4.3.8)		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 : (IEC 60950-1, 4.3.8)	(See appended Tables and Annex M and M.4)	—

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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.....: (IEC 60065, 14.11.3)	(See Table M.4)	—
M.4.2.2 b)	Single faults in charging circuitry.....: (IEC 60065, 14.11.3)	(See Annex B.4)	—
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 (IEC 60065, 14.11.5)		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
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).....:		—
M.6.2	Leakage current (mA)		—
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

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume V_z (m ³ /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): (IEC 60065, 5.5.1)		—
N	ELECTROCHEMICAL POTENTIALS		P
	Metal(s) used.....: (IEC 60065, Annex F) & (IEC 60950-1, Annex J)	Pollution degree considered	—
O	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		P
	Figures O.1 to O.20 of this Annex applied.....: (IEC 60065, Annex E) & (IEC 60950-1, Annex F)		—
P	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF INTERNAL LIQUIDS		P
P.1	General requirements		P
P.2.2	Safeguards against entry of foreign object (IEC 60065, 9.1.3) & (IEC 60950-1, 4.6.1)		P
	Location and Dimensions (mm):	No opening	—
P.2.3	Safeguard against the consequences of entry of foreign object		P
P.2.3.1	Safeguards against the entry of a foreign object (IEC 60950-1, 4.6.1, 4.6.4.3)		P
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts.....:		—
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard): (IEC 60950-1, 4.6.4.2, 4.6.4.3)		—
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General requirements		N/A

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
P.4.2 a)	Conditioning testing (IEC 60950-1, 4.6.5)		N/A
	Tc (°C)..... :		—
	Tr (°C)..... :		—
	Ta (°C)..... :		—
P.4.2 b)	Abrasion testing	(See G.13.6.2)	—
P.4.2 c)	Mechanical strength testing.....	(See Annex T)	—

Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING		P
Q.1	Limited power sources (IEC 60950-1, 2.5)		P
Q.1.1 a)	Inherently limited output (IEC 60950-1, 2.5)		N/A
Q.1.1 b)	Impedance limited output (IEC 60950-1, 2.5)		P
	- Regulating network limited output under normal operating and simulated single fault condition		P
Q.1.1 c)	Overcurrent protective device limited output (IEC 60950-1, 2.5)		N/A
Q.1.1 d)	IC current limiter complying with G.9 (IEC 60950-1, 2.5)		N/A
Q.1.2	Compliance and test method (IEC 60950-1, 2.5)		P
Q.2	Test for external circuits – paired conductor cable (IEC 60950-1, 6.3)		N/A
	Maximum output current (A)		—
	Current limiting method..... :		—

R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General requirements		N/A
R.2	Determination of the overcurrent protective device and circuit		N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).		—

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material.....:		—
	Wall thickness (mm).....:		—
	Conditioning (°C).....:		—
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material.....:		—
	Wall thickness (mm).....:		—
	Conditioning (°C).....:		—
	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 (IEC 60950-1, A.3)		N/A
	Samples, material.....:		—
	Wall thickness (mm).....:		—
	Cheesecloth did not ignite		N/A
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power 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
	After fifth flame application, flame extinguished within 1 min		N/A

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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T	MECHANICAL STRENGTH TESTS		P
T.1	General requirements		P
T.2	Steady force test, 10 N : (IEC 60065, 13.3.1) & (IEC 60950-1, 4.2.2)	(See appended table T.2)	—
T.3	Steady force test, 30 N : (IEC 60065, 13.3.1) & (IEC 60950-1, 4.2.3)	(See appended table T3)	—
T.4	Steady force test, 100 N : (IEC 60065, 9.1.7)	(See appended table T4)	—
T.5	Steady force test, 250 N : (IEC 60065, 9.1.7) & (IEC 60950-1, 4.2.4)	(See appended table T5)	—
T.6	Enclosure impact test (IEC 60065, 12.1.4) & (IEC 60950-1, 4.2.5)	(See appended table T6)	N/A
	Fall test		N/A
	Swing test		N/A
T.7	Drop test : (IEC 60065, 12.1.5) & (IEC 60950-1, 4.2.6)	(See appended table T7)	—
T.8	Stress relief test..... : (IEC 60065, 12.1.6) & (IEC 60950-1, 4.2.7)	(See appended table T8)	—
T.9	Impact Test (glass) (IEC 60065, 19.6.1) & (IEC 60950-1, 4.2.5)		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..... : (IEC 60065, 19.6.2)	(See sub-clause 4.4.4.9)	—
T.11	Test for telescoping or rod antennas (IEC 60065, 12.6)		N/A
	Torque value (Nm) :		—

U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1	General requirements (IEC 60065, 18.1) & (IEC 60950-1, 4.2.8)		N/A
U.2	Compliance and test method for non-intrinsically protected CRTs (IEC 60065, 18.2)		N/A

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict

U.3	Protective Screen..... :	(See Annex T)	—
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V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)		P
V.1	Accessible parts of equipment (IEC 60065, 9.1.1.3, 9.1.3, 9.1.4) & (IEC 60950-1, 1.7.2.5, 2.1.1.1, EE.5)		P
V.2	Accessible part criterion		P

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IEC/EN 62368_1B – ATTACHMENT

Clause	Requirement + Test	Result - Remark	Verdict
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4.1.2	TABLE: List of critical components				
Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
Plastic Enclosure	COVESTRO DEUTSCHLAND AG [PC RESINS]	6485 + (z)(f1) 6485 + (z)(f2)	V-0, 115°C, min. thickness 2.0 mm.	UL 94	UL E41613
Plug Holder	COVESTRO DEUTSCHLAND AG [PC RESINS]	6485 + (z)(f1) 6485 + (z)(f2)	V-0, 115°C, min. thickness 2.0 mm.	--	UL E41613
PCB	DONGGUAN CITY TONSUN ELECTRONIC CO LTD	TS-03	V-0, 130°C	ZPMV2 UL 796	UL E315942
(Alternative)	NIPPON (BOLUO) ELECTRONICS CO LTD	S4	V-0, 130°C	ZPMV2 UL 796	UL E56327
(Alternative)	Countcash Ltd	C-29	V-0, 130°C	ZPMV2 UL 796	UL E123150
(Alternative)	Interchangeable	Interchangeable	V-0, 130°C	UL 796	UL E
F101	XC Electronics (Shen Zhen) Corp. Ltd.	5TE	T4AL, 250Vac	IEC/EN 60127-1, IEC/EN 60127-3	VDE 40029550 UL E249609
(Alternative)	King Wahoo Electronics Co Ltd	KET series	T4A, 250Vac	IEC/EN60127- 1, IEC/EN 60127-3	TUV R50152902 UL E302100
(Alternative)	Dongguan Better Electronics Technology Co., Ltd.	932	T4A, 250Vac	IEC/EN60127- 1, IEC/EN 60127-3	VDE 40033369 UL E300003
(Alternative)	Conquer Electronics Co., Ltd.	MST	T4A, 250Vac	IEC/EN60127- 1, IEC/EN 60127-3	VDE 40017118 UL E82636
(Alternative)	Hollyland Company Limited	5ET	T4A, 250Vac	IEC/EN60127- 1, IEC/EN 60127-3	VDE 40015669 E156471
Varistor (RV101)	Shantou High-New Technology Development Zone	STE-10D471K STE-10D561K	Minimum 300VAC, coating min. V-1, 6KV/3KA, minimum	IEC/EN 61051-1 IEC/EN	VDE 40023049 UL E330837

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test		Result - Remark		Verdict
(Optional)	Songtian Enterprise Co Ltd		105 °C	61051-2	
(Alternative)	Thinking Electronic Industrial Co., Ltd.	TVR10D471K TVR10D561K	Minimum 300VAC, coating min. V-1, 6KV/3KA, minimum 105 °C	IEC/EN 61051-1 IEC/EN 61051-2	VDE 005944 UL E314979
(Alternative)	Success Electronics Co., Ltd	SVR10D471K SVR10D561K	Minimum 300VAC, coating min. V-1, 6KV/3KA, minimum 105 °C	IEC/EN 61051-1 IEC/EN 61051-2	VDE 123677 UL E330256
(Alternative)	Cerglass Mfg Inc	10D471K 10D561K	Minimum 300VAC, coating min. V-1, 6KV/3KA, minimum 105 °C	IEC/EN 61051-1 IEC/EN 61051-2	VDE 40028836 UL E317616
(Alternative)	Brightking (Shenzhen) Co., Ltd	471K D10 561K D10	Minimum 300VAC, coating min. V-1, 6KV/3KA, minimum 105 °C	IEC/EN 61051-1 IEC/EN 61051-2	VDE 40027827 UL E327997
Bridge Diodes (BD101)	Interchangeable	Interchangeable	Min. 0.5A, min. 1000V	IEC/EN 62368	Tested with appliance
Electrolytic Capacitor (C101, C102)	Interchangeable	Interchangeable	6.8-10μF, min. 400V, min. 105°C	--	--
IC101	Interchangeable	Interchangeable	Min. 2A, min. 600V	--	--
Current sensre Resistor (R106 R107)	Interchangeable	Interchangeable	Each Min. 1.2ohm, 1/4W	--	--
Bridge-Capacitor (CY101)	Success Electronics Co., Ltd	SE	Min.500Vac, Max. 1000pF, 125°C	IEC/EN 60384-14	VDE 40020002 UL E114280
(Alternative)	Success Electronics Co., Ltd	SB	Min.500Vac, Max. 1000pF, 125°C	IEC/EN 60384-14	VDE 40020001 UL E114280
(Alternative)	Shantou High-New Technology Developmnt Zone Songtian Enterprise Co Ltd	CD-Series	Min.250Vac, Max. 1000pF, 125°C	IEC/EN 60384-14	VDE 40025754 UL E208107
(Alternative)	XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	YO-series	Min.400Vac, Max. 1000pF, 125°C	IEC/EN 60384-14	VDE 40036880 UL E319473

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark			Verdict
(Alternative)	Guangdong South Hongming Electronic Science and Technology Co., Ltd.	F	Min.250Vac, Max. 1000pF, 125°C	IEC/EN 60384-14	VDE 40036393 UL E154899
(Alternative)	Dongguan Easy-gather Electronic Co., Ltd	DCF	Min.250Vac, Max. 1000pF, 125°C	IEC/EN 60384-14	VDE 40022942 UL E252221
(Alternative)	YINAN DON'S ELECTRONIC COMPONENT CO LTD	CT81	Min.250Vac, Max. 1000pF, 125°C	IEC/EN 60384-14	VDE 135256 UL E145038
(Alternative)	Nanjing Yuyue Electronics Co., Ltd.	CT7	Min.400Vac, Max. 1000pF, 125°C	IEC/EN 60384-14	VDE 40008010 UL E237728
(Alternative)	Xiamen sino faith electronic technology co ltd	HCY	Max. 1000pF, Min. 400Vac, 125°C, Y1 type	IEC/EN/UL 60384-14	VDE 40034792 UL E328673
(Alternative)	Shenzhen Haotian Electronic Co., Ltd., HT		Min.400Vac, Max. 1000pF, 125°C, Y1 type	IEC/EN 60384-14 UL60384-14	VDE:40029300 UL E326483
Transformer (T101)	Airline Mechanical Company Limited	8916+CA328-1E16	Class B.	Applicable part of IEC/EN 60065 and according to IEC 60085	Tested with appliance
Component in the mains transformer T101					
- Bobbin	Chang Chun Plastics Co., Ltd.	T375J	Phenolic, V-0, 150°C, min. 0.71mm thickness.	--	UL E59481
(Alternative)	Sumitomo Bakelite Co Ltd	PM-9820	Phenolic, V-0, 150°C, min. 0.71mm thickness.	--	UL E41429
- Insulation tape	Jingjiang Yahua Pressure Sensitive Glue Co Ltd	PZ, CT	130°C	--	UL E165111
(Alternative)	P Leo & Co (B C) Ltd	1P801, 1P802	130°C	--	UL E126174
- Triple wire used in	Furukawa Electric Co Ltd	TEX-E	130°C	IEC/EN 60950-1	VDE 006735 UL E206440

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2					
Clause	Requirement + Test		Result - Remark		Verdict
secondary					
(Alternative)	Dah Jin Technology Co Ltd	TLW-B	130°C	IEC/EN 60950-1	VDE 40008834 UL E236542
- Primary magnet wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEW/U	130 °C	--	UL E201757
(Alternative)	Interchangeable	Interchangeable	130°C	--	UL
- Varnish	Elantas Electrical Insulation Elantas Pdg Inc	468-2(x),	130°C	--	UL E75225
(Alternative)	Hongdatong Industry (Dongguan) Co Ltd China	WE-386	155°C	--	UL E238459
Inductor LF101	Airline Mechanical Company Limited	2305-02030Y0000	EE8.3 20mH(min)	--	Tested with appliance
Output cord	Interchangeable	Interchangeable	VW-1, min. 80°C, min. 24AWG, min. 30Vac	--	UL
Note:					
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					

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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4.8.4, 4.8.5	TABLE: Lithium coin/button cell batteries mechanical tests			N/A
(The following mechanical tests are conducted in the sequence noted.)				
4.8.4.2	TABLE: Stress relief test			—
Part		Material	Oven Temperature (°C)	Comments
4.8.4.3	TABLE: Battery replacement test			—
Battery part no.....:				—
Battery Installation/withdrawal			Battery Installation/Removal Cycle	Comments
			1	
			2	
			3	
			4	
			5	
			6	
			8	
			9	
			10	
4.8.4.4	TABLE: Drop test			—
Impact Area		Drop Distance	Drop No.	Observations
			1	
			2	
			3	
4.8.4.5	TABLE: Impact			—
Impacts per surface		Surface tested	Impact energy (Nm)	Comments
4.8.4.6	TABLE: Crush test			—
Test position		Surface tested	Crushing Force (N)	Duration force applied (s)
Supplementary information:				

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2			
Clause	Requirement + Test	Result - Remark	Verdict

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

DRAFT

5.2	TABLE: Classification of electrical energy sources	P
5.2.2.2 – Steady State Voltage and Current conditions		

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters			ES Class
				U (Vrms or Vpk)	I (Apk or Arms)	Hz	
1	264Va.c. 60Hz	All primary circuits	Normal	--	--	--	ES3 (declared)
			Abnormal	--	--	--	
			Single fault – SC/OC	--	--	--	
2	264Va.c. 60Hz	Output of power supply unit (12V)	Normal	12.08Vd.c.	--	DC	ES1
			Abnormal	12.09Vd.c.	--	DC	
			Single fault – SC:D1	0	--	--	

5.2.2.3 - Capacitance Limits

No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters		ES Class
				Capacitance, nF	Upk (V)	
1			Normal	--	--	--
			Abnormal	--	--	
			Single fault	--	--	

5.2.2.4 - Single Pulses

No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters			ES Class
				Duration (ms)	Upk (V)	Ipk (mA)	
			Normal				
			Abnormal				
			Single fault – SC/OC				

5.2.2.5 - Repetitive Pulses

No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters			ES Class
				Off time (ms)	Upk (V)	Ipk (mA)	
			Normal				
			Abnormal				
			Single fault – SC/OC				

Test Conditions:

Normal –

Abnormal -

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

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurements					P		
	Supply voltage (V) :	90V/ 60Hz Horizontal	90V/ 60Hz Vertical	264V/ 50Hz Horizontal	264V/ 50Hz Vertical	—		
	Ambient T _{min} (°C) :	25.6	24.3	25.2	24.1	—		
	Ambient T _{max} (°C) :	25.7	25.6	24.0	25.1	—		
	T _{ma} (°C) :	25.0	25.0	25.0	25.0	—		
Maximum measured temperature T of part/at:		T (°C)				Allowed T _{max} (°C)		
RV101		71.2	64.4	46.5	43.7	105-20=85		
C102		82.0	77.0	61.9	59.9	105-20=85		
C101		79.5	73.2	50.6	48.0	105-20=85		
LF101 coil		80.6	77.6	51.5	50.8	130- 20=110		
LF101 core		79.3	75.8	54.2	53.4	130- 20=110		
T101 coil		88.0	81.2	75.5	71.4	110-20=90		
T101 core		81.9	74.3	70.6	65.5	110-20=90		
CY101		57.4	50.1	48.6	44.2	125- 20=105		
C201		51.3	44.9	45.6	41.1	105-20=85		
output wire		37.3	32.0	33.1	29.9	80-20=60		
D201		90.4	86.8	85.0	82.2	Ref.		
PCB near T101		73.7	66.8	59.2	56.1	130- 20=110		
Enclosure inside near T101		67.8	59.6	59.4	53.4	115-20=95		
Enclosure outside near T101		51.9	39.4	46.0	37.5	95-20=75		
Ambient		25.6	24.9	25.2	25.1	--		
Supplementary information: T _a : 45°C								
Temperature T of winding:		t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
--		--	--	--	--	--	--	--
--		--	--	--	--	--	--	--
Supplementary information:								
Note 1: T _{ma} should be considered as directed by applicable requirement								
Note 2: T _{ma} is not included in assessment of Touch Temperatures (Clause 9)								

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics			N
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			P
Allowed impression diameter (mm) :		≤ 2 mm		—
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression diameter (mm)	
Plug holder	COVESTRO DEUTSCHLAND AG [PC RESINS]	125	1.1	
Bobbin of T101	Chang Chun Plastics Co., Ltd.	125	1.0	
Supplementary information:				

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum Clearances/Creepage distance						P
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)
Between F101 pad 1 and 2	420	240	<30	2.3	3.4	2.5	3.4
Between L and N (before fuse)	420	240	<30	2.3	4.0	2.5	4.0
CY101 pri. To sec.	372	<240	*	4.0	7.2	5.0	7.2
Primary trace to secondary trace	580	<240	*	4.6	7.3	5.0	7.4
Transformer secondary winding to core	580	<240	*	4.6	6.2	5.0	>6.5
Transformer primary core to secondary components	580	<240	*	4.6	>7.8	5.0	>7.8
PCB under Transformer primary to secondary	580	<240	*	4.6	10.1	5.0	10.1
Supplementary information:							
Note 1: Only for frequency above 30 kHz							
Note 2: See table 5.4.2.4 if this is based on electric strength test							
Note 3: Provide Material Group							

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage		P
	Overvoltage Category (OV)..... :		
	Pollution Degree..... :		
Clearance distanced between:	Required withstand voltage	Required cl (mm)	Measured cl (mm)
Between F101 pad 1 and 2	2500Vpeak	2.3	3.4
Between L and N (before fuse)	2500Vpeak	3.0	4.0
CY101 pri. To sec.	2500Vpeak	4.0	7.3
Primary trace to secondary trace	2500Vpeak	4.6	>7.2
Transformer secondary winding to core	2500Vpeak	4.6	>6.8
Transformer primary core to secondary components	2500Vpeak	4.6	>7.8
PCB under Transformer primary to secondary	2500Vpeak	4.6	>8.0
Supplementary information:			

5.4.2.4	TABLE: Clearances based on electric strength test			N/A
Test voltage applied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakdown Yes / No	
Supplementary information:				

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Distance through insulation measurements					P
Distance through insulation di at/of:	Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)	
Plastic enclosure	580	62.7	3000	0.4	Min.:2.0	
Bobbin	580	62.7	3000	0.4	Min.:1.6	
Supplementary information:						

5.4.9	TABLE: Electric strength tests			P
Test voltage applied between:		Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Functional:				

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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5.4.9	TABLE: Electric strength tests			P
Test voltage applied between:		Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
--		--	--	--
Basic/supplementary:				
Between L and N (fuse F101 opened)		AC	1500	No
Reinforced:				
Between input and output terminal		DC	4242	No
Between input and plastic enclosure (with metal foil)		AC	3000	No
Transformer primary and secondary		AC	3000	No
Transformer secondary and core		AC	3000	No
1 layer insulation tape of transformer		AC	3000	No
Routine Tests:				
Supplementary information:				

5.5.2.2	TABLE: Stored discharge on capacitors					N/A
Supply Voltage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification	
264V, 60Hz	Phase to Neutral	--	-	--	--	
264V, 60Hz	Phase to Neutral	--	---	--	-	

Supplementary information:

☒ bleeding resistor rating:

☐ ICX:

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

5.6.6.2	TABLE: Resistance of protective conductors and terminations				N/A
Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)	

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2						
Clause	Requirement + Test			Result - Remark		Verdict
5.6.6.2	TABLE: Resistance of protective conductors and terminations					N/A
Accessible part		Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)	
Supplementary information:						

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IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive part		N/A
Supply voltage..... :			—
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	Touch current (mA)	
	1		
	2*		
	3		
	4		
	5		
	6		
	8		
Supplementary Information:			
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.			

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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6.2.2	TABLE: Electrical power sources (PS) measurements for classification				P
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s ^{*)}	PS Classification
A	DC Output	Power (W)..... :	13.95	13.95	PS2
		VA (V)..... :	11.89	11.89	
		IA (A)..... :	1.173	1.173	
B		Power (W)..... :			
		VA (V)..... :			
		IA (A)..... :			
C		Power (W)..... :			
		VA (V)..... :			
		IA (A)..... :			
D		Power (W)..... :			
		VA (V)..... :			
		IA (A)..... :			

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)				N/A
Location	Open circuit voltage After 3 s (V _p)	Measured r.m.s current (I _{rms})	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No	

Supplementary information:

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.

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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6.2.3.2	TABLE: Determination of Potential Ignition Sources (Resistive PIS)				N/A
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
Supplementary Information: 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. 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.					

8.5.5	TABLE: High Pressure Lamp		N/A
Description		Values	Energy Source Classification
Lamp type..... :			—
Manufacturer..... :			—
Cat no..... :			—
Pressure (cold) (MPa)..... :			MS_
Pressure (operating) (MPa)..... :			MS_
Operating time (minutes)..... :			—
Explosion method..... :			—
Max particle length escaping enclosure (mm)..... :			MS_
Max particle length beyond 1 m (mm)..... :			MS_
Overall result			
Supplementary information:			

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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B.2.5	TABLE: Input test							P
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status	
90V/50Hz	0.286	--	15.72	--	F101	0.286	Loading: 12V1A	
90V/60Hz	0.284	--	15.64	--	F101	0.284	Ditto	
100V/50Hz	0.253	0.5	15.44	--	F101	0.253	Ditto	
100V/60Hz	0.257	0.5	15.41	--	F101	0.257	Ditto	
240V/50Hz	0.131	0.5	14.85	--	F101	0.131	Ditto	
240V/60Hz	0.137	0.5	14.84	--	F101	0.137	Ditto	
264V/50Hz	0.125	--	14.90	--	F101	0.125	Ditto	
264V/60Hz	0.123	--	14.86	--	F101	0.123	Ditto	
Supplementary information: Equipment may be have rated current or rated power or both. Both should be measured								

B.3	TABLE: Abnormal operating condition tests							P
Ambient temperature (°C)					See blow			—
Power source for EUT: Manufacturer, model/type, output rating					See label			—
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation
DC output	O-L	240	5h 50mins	F1,	0.285 to 0.314 to 0.333 to 0.05		T1 coil: 112.6°C T1 core: 104.6°C Ambient: 25.7°C	The unit shutdown when the loading to 1.20A. No damaged, no hazards.
Supplementary information: 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.								

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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B.4		TABLE: Fault condition tests						P
Ambient temperature (°C)					See blow			—
Power source for EUT: Manufacturer, model/type, output rating					See label			—
Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation
RV101	S-C	240V/60Hz	1s	F101,	0.003	--	--	F101 opened immediately . No hazard.
R102	S-C	240V/60Hz	1s	F101	0.003	--	--	F101 opened immediately, No hazard.
C102	S-C	240V/60Hz	10mins	F101	0.003	--	--	Unit shutdown immediately, F101 opened, no hazard
C202	S-C	240V/60Hz	1s	F101	0.015	--	--	Unit shutdown immediately, recoverable when the fault removed, No damage, no hazard
R109	S-C	240V/60Hz	10mins	F101	0.010	--	--	Unit shutdown immediately, IC101 damage, no hazard
R111	S-C	240V/60Hz	1s	F101	0.006	--	--	Unit shutdown immediately, no hazard
T101 pin6-10	S-C	240V/60Hz	1s	F101	0.024	--	--	Unit shutdown immediately, F1 opened. Repeated, no hazard
D201	S-C	240V/60Hz	10mins	F101	0.016	--	--	Unit shutdown immediately, no hazard
BD101	S-C	240V/60Hz	1s	F101	0.002	--	--	F101 opened immediately, No hazard.

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test				Result - Remark			Verdict
IC101 pin 1-5	S-C	240V/60Hz	10mins	F101	0.105	--	--	Unit shutdown immediately, No damage, no hazard
DC output	S-C	240V/60Hz	10mins	F101	0.142	--	--	Unit shutdown immediately, recoverable when the fault removed, No damage, no hazard
Supplementary information: S-C=Short Circuit, O-C=Open Circuit, O-L=Over Load. The Electric strength tests were successfully conducted after the completion of fault tests, no breakdown. *) fuse current is more than 2.1 times fuse rating.								

Annex M	TABLE: Batteries									N/A
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						
	Discharging		Un-intentional charging	Charging		Discharging		Reversed charging		
	Meas. current	Manuf. Specs.		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 leaks										
- Explosion of the battery										
- Emission of flame or expulsion of molten metal										
- Electric strength tests of equipment after completion of tests										
Supplementary information:										

Annex M.4	TABLE: Additional safeguards for equipment containing secondary lithium batteries				N/A
Battery/Cell		Test conditions	Measurements		Observation

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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No.		U	I (A)	Temp (C)	
	Normal				
	Abnormal				
	Single fault –SC/OC				
	Normal				
	Abnormal				
	Single fault – SC/OC				

Supplementary Information:

Battery identification	Charging at T_{lowest} (°C)	Observation	Charging at $T_{highest}$ (°C)	Observation

Supplementary Information:

Annex Q.1 **TABLE: Circuits intended for interconnection with building wiring (LPS)**

P

Note: Measured UOC (V) with all load circuits disconnected:

Output Circuit	Components	U_{oc} (V)	I_{sc} (A)		S (VA)	
			Meas.	Limit	Meas.	Limit
12V output	Normal operation	12.13	4.08	8	39.93	100

Supplementary Information:

SC=Short circuit, OC=Open circuit

T.2, T.3, T.4, T.5 **TABLE: Steady force test**

P

Part/Location	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Internal component	--	--	10	5	No any hazards, no reducing the insulation distance.
External enclosure	PC	2.0	250	5	No any hazards, no any damages.

IEC/EN 62368-1 (ed.2) & IEC 60065 (ed.8) & IEC 60950-1 (ed.2), am1; am2

Clause	Requirement + Test	Result - Remark	Verdict
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Supplementary information:

T.6, T.9	TABLE: Impact tests				N/A
Part/Location	Material	Thickness (mm)	Vertical distance (mm)	Observation	
Supplementary information:					

T.7	TABLE: Drop tests				P
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation	
Top External enclosure	PC	2.32	1000	No any hazards, no any damages.	
Side External enclosure	PC	2.32	1000	No any hazards, no any damages.	
Bottom External enclosure	PC	2.32	1000	No any hazards, no any damages.	
Supplementary information:					

T.8	TABLE: Stress relief test					P
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation	
External enclosure	PC	2.32	88	7	No any hazards, no any damages.	
Supplementary information:						

IEC/EN 62368_1B – ATTACHMENT

Clause	Requirement + Test	Result - Remark	Verdict
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ATTACHMENT TO TEST REPORT IEC/EN 62368-1

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

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

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

Attachment Form No.....: EU_GD_IEC62368_1B

Attachment Originator.....: Intertek Semko AB

Master Attachment.....: Date (2015-08)

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	CENELEC COMMON MODIFICATIONS (EN)	P
1	NOTE Z1	P
4.Z1	Protective devices included as integral parts of the equipment or as parts of the building installation:	P
	a) Included as parts of the equipment	P
	b) For components in series with the mains; by devices in the building installation	P
	c) For pluggable type B or permanently connected; by devices in the building installation	N/A
5.4.2.3.2.4	Interconnection with external circuit	N/A
10.2.1	Additional requirements in 10.5.1	P
10.5.1	RS1 compliance measurement conditions	P
10.6.2.1	EN 71-1:2011, 4.20 and methods and distances	N/A
10.Z1	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	P
G.7.1	NOTE Z1	N/A

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	P
4.1.15	Denmark, Finland, Norway and Sweden: Class I pluggable equipment type A marking	N/A
4.7.3	United Kingdom: Torque test socket-outlet BS 1363, and the plug part BS 1363.	P
5.2.2.2	Denmark: Warning for high touchcurrent	N/A
5.4.11.1 and Annex G	Finland and Sweden: Separation of the telecommunication network from earth	N/A
5.5.2.1	Norway: Capacitors rated for the applicable line-to-line voltage (230 V).	N/A
5.5.6	Finland, Norway and Sweden: Resistors used as basic safeguard or bridging basic insulation comply with G.10.1 and G.10.2.	N/A

IEC/EN 62368_1B – ATTACHMENT 1

Clause	Requirement + Test	Result - Remark	Verdict
5.6.1	Denmark: Protection for pluggable equipment type A; integral part of the equipment		N/A
5.6.4.2.1	Ireland and United Kingdom: The protective current rating is taken to be 13 A		N/A
5.6.5.1	Ireland and United Kingdom: Conductor sizes of flexible cords to be accepted by terminals for equipment rated 10 A to 13 A		N/A
5.7.5	Denmark: The installation instruction affixed to the equipment if high protective conductor current		N/A
5.7.6.1	Norway and Sweden: Television distribution system isolation text in user manual		N/A
5.7.6.2	Denmark: Warning for high touch current		N/A
B.3.1 and B.4	Ireland and United Kingdom: Tests conducted using an external miniature circuit breaker or protective devices included as an integral part of the direct plug-in equipment		N/A
G.4.2	Denmark: Appliances rated ≤ 13 A provided with a plug according to DS 60884-2-D1:2011.		N/A
	Class I equipment provided with socket-outlets provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.		N/A
	If a single-phase equipment having rated >13 A or poly-phase equipment provided with a supply cord with a plug, plug in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.		N/A
	Mains socket outlets intended for providing power to Class II apparatus rated 2,5 A in accordance with DS 60884-2-D1:2011 standard sheet DKA 1-4a.		N/A
	Other current rating socket outlets in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.		N/A
	Mains socket-outlets with earth 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		N/A
G.4.2	United Kingdom: The plug part of direct plug-in equipment assessed to BS 1363		P
G.7.1	United Kingdom: Equipment fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument 1994 No. 1768		P

IEC/EN 62368_1B – ATTACHMENT 1

Clause	Requirement + Test	Result - Remark	Verdict
G.7.1	Ireland: Apparatus provided with a plug in accordance with Statutory Instrument 525: 1997, “13 A Plugs and Conversion Adapters for Domestic Use		N/A
G.7.2	Ireland and United Kingdom: A power supply cord for equipment which is rated over 10 A and up to and including 13 A.		N/A

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
10.5.2	Germany: Cathode ray tube intended for the display of visual images, authorization or application of type approval and marking.		N/A
F.1	Italy: The power consumption in Watts (W) indicated on TV receiver and in instruction for use		N/A
	TV receivers provided with an instruction for use, schematic diagrams and adjustments procedure in Italian language.		N/A
	Marking for controls and terminals in Italian language.		N/A
	Conformity declaration according to the above requirements in the instruction manual		N/A
	First importers of TV receivers manufactured outside EEC previous conformity certification to the Italian Post Ministry and Certification number on the backcover.		N/A

Attachment 2: Photos of the product:

Photo 1 Appearance of EUT

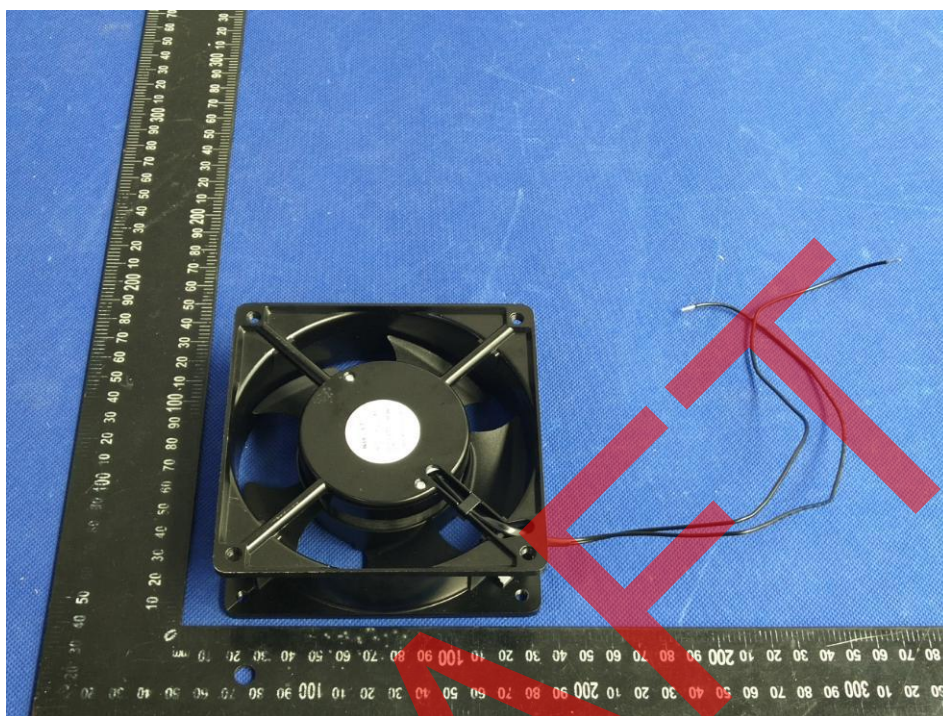
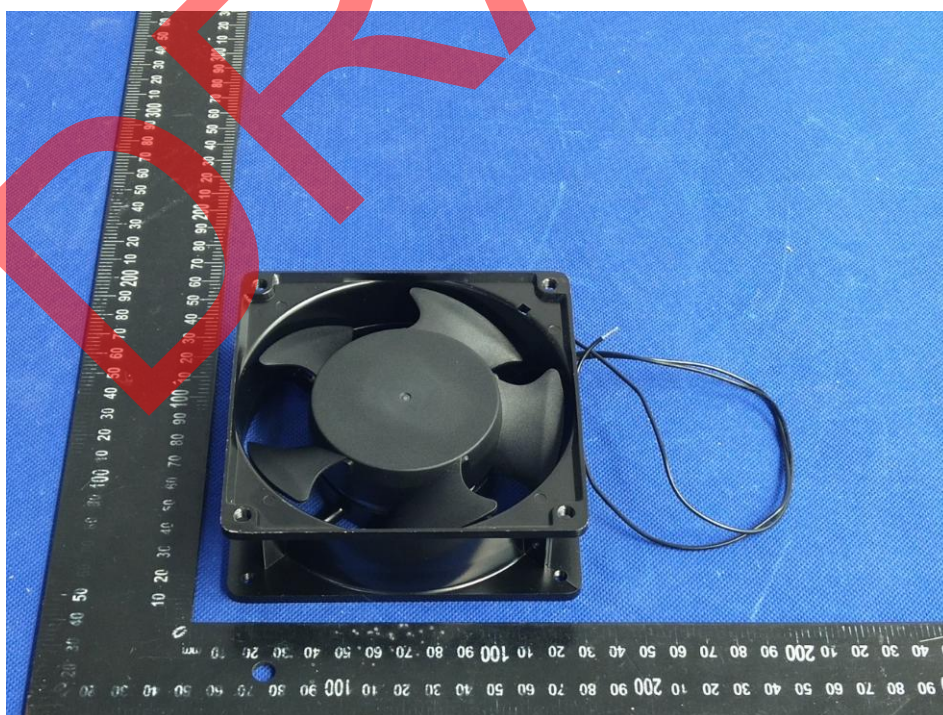
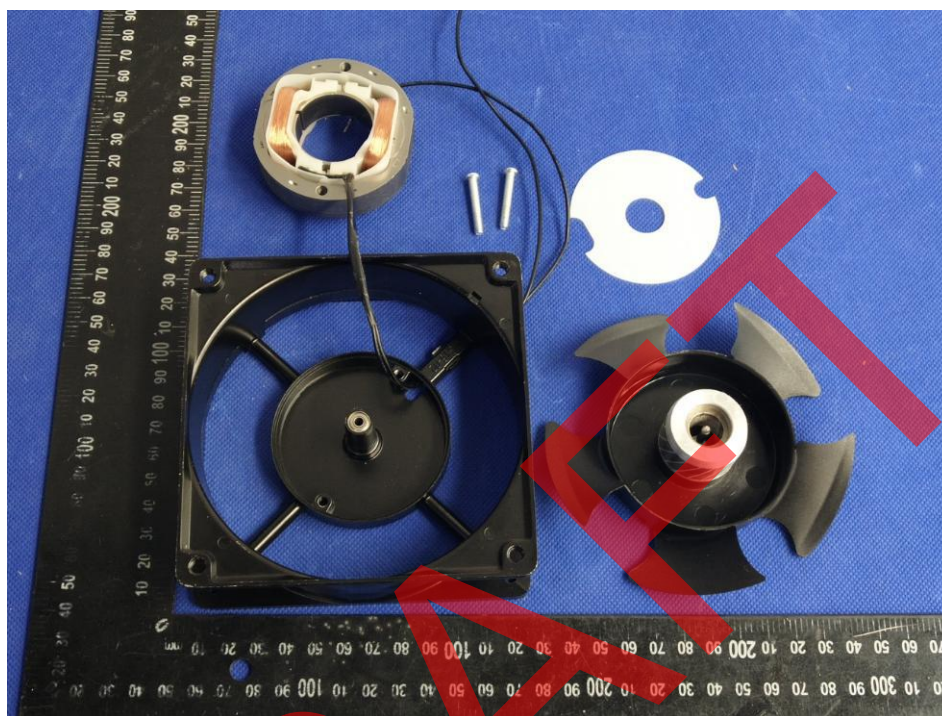


Photo 2 Appearance of EUT



Attachment 2: Photos of the product:

Photo 3 Appearance of EUT



---The End of Report---