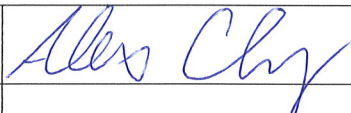
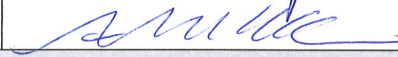




Test Report issued under the responsibility of:



TEST REPORT IEC 62368-1 Audio/video, information and communication technology equipment Part 1: Safety requirements	
Report Number	ATTCB106023
Date of issue	June 20, 2017
Total number of pages	65
Applicant's name	Compal Electronics , Inc.
Address	No.581, Ruiguang Rd., Neihu District, Taipei City 11492 Taiwan.
Test specification:	
Standard.....	IEC 62368-1:2014 (Second Edition)
Test procedure	CB Scheme
Non-standard test method	N/A
Test Report Form No.	IEC62368_1B
Test Report Form(s) Originator.....	UL(US)
Master TRF	2014-03
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General disclaimer: The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.	

Test Item description	LCD Monitor	
Trade Mark	NEC	
Manufacturer	NEC Display Solutions, Ltd. 4-28, Mita 1-chome, Minato-ku, Tokyo, Japan	
Model/Type reference	PA243W and PA243W-BK	
Ratings	100-240V~, 50/60Hz, 0.95-0.48A (for Mexico 1.3A)	
Testing procedure and testing location:		
☒ CB Testing Laboratory:	AUDIX TECHNOLOGY CORPORATION	
Testing location/ address	8TH FL., NO. 8, LANE 120, SEC. 1, NEI-HU ROAD, TAIPEI, CHINESE TAIPEI	
☐ Associated CB Testing Laboratory:		
Testing location/ address.....		
Tested by (name + signature).....	Alex Cheng/ Handler	
Approved by (name + signature)	Allen Kao/ reviewer	
☐ Testing procedure: TMP/CTF Stage 1		
Testing location/ address.....		
Tested by (name + signature).....		
Approved by (name + signature)		
☐ Testing procedure: WMT/CTF Stage 2		
Testing location/ address.....		
Tested by (name + signature).....		
Witnessed by (name + signature).....		
Approved by (name + signature)		
☐ Testing procedure: SMT/CTF Stage 3 or 4		
Testing location/ address.....		
Tested by (name + signature).....		
Approved by (name + signature)		
Supervised by (name + signature).....		

List of Attachments (including a total number of pages in each attachment):	
EU group differences and national differences (3 pages) US & CA national differences (5 pages) Enclosures (19 pages)	
Summary of testing:	
Tests performed (name of test and test clause): Classification and limits of electrical energy sources (5.2) Protection against electrical energy sources (5.3) Insulation materials and requirements (5.4) Components as safeguards (5.5) Protective conductor (5.6) Prospective touch voltage, touch current and protective conductor current (5.7) Classification of power sources (PS) and potential ignition sources (PIS) (6.2) Safeguards against fire under normal operating conditions and abnormal operating conditions (6.3) Safeguards against fire under single fault conditions (6.4) Stability of equipment (8.6) Equipment mounted to a wall or ceiling (8.7) Thermal burn injury (9) Normal operating condition tests, abnormal operating condition tests and single fault condition tests. (Annex B) Equipment markings, instructions, and instructional safeguards (Annex F) Wound components (G.5) Metalized coatings and adhesives securing parts (P.4) For metalized coatings, clearances and creepage distance for pollution degree 3 shall be maintained instead of the tests of P.4.2 (P.5) Circuits intended for interconnection with building wiring (Annex Q) Mechanical strength tests (Annex T)	Testing location: All tests as described in Test Case and Measurement Sections were performed at the laboratory described on page 2.

Summary of compliance with National Differences:**List of countries addressed**

EU group differences, Canada and United States.

CENELEC member countries (EU group differences): Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

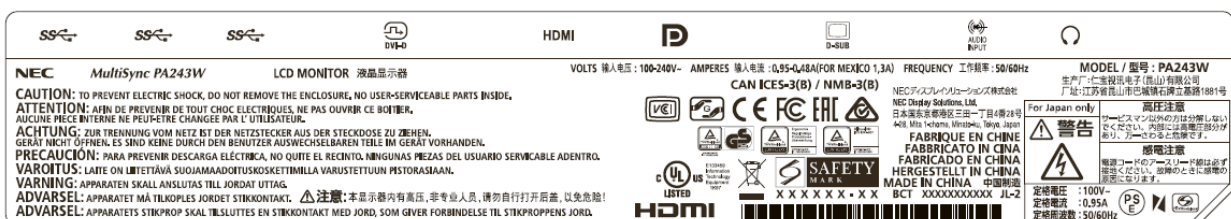
☒ **The product fulfils the requirements of EN 62368-1: 2014.**

The product fulfils the requirements of UL 62368-1, Second Edition.

The product fulfils the requirements of CAN/CSA C22.2 No. 62368-1-14.

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.



Notes:

The above labels are draft of an artwork for marking plate pending approval by National Certification Bodies and it shall not be affixed to products prior to such an approval.

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	16A or 20A for building; 3.15A (for equipment) 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:	40 °C
IP protection class	☒ IPX0 ☐ IP____
Power Systems	☒ TN ☐ TT ☐ IT - ____ V _{L-L}
Altitude during operation (m)	☐ 2000 m or less ☒ Up to 5000 m
Altitude of test laboratory (m)	☒ 2000 m or less ☐ 200 m
Mass of equipment (kg)	☒ approx. 7.87 kg (include Stand base : Approx. 2.82 kg)

POSSIBLE TEST CASE VERDICTS:	
- test case does not apply to the test object.....:	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
TESTING:	
Date of receipt of test item	2017-04-17
Date (s) of performance of tests	2017-04-17 to 2017-04-28
GENERAL REMARKS:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☐ comma / ☒ point is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC60068-2-1:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided :	☐ Yes ☒ Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies)	1) COMPAL DISPLAY ELECTRONICS (KUNSHAN) CO., LTD. No. 1881 Liji Road Shipai Bacheng Town, Kunshan, Jiangsu, P.R.China

GENERAL PRODUCT INFORMATION:**Product Description –**

The equipment models which see cover page is LCD Monitor intended for information technology equipment scope of this standard use.

The equipment consists of the following critical components:

- LCD panel (LED backlight type)
- Building-in type switching power supply (incorporated with LED driver circuit, evaluated within the equipment, refer to appended table 1.5.1 for the source details).
- SELV boards (Main board)
- Metal enclosure
- Plastic enclosure
- Internal speaker

Maximum Normal load condition for this equipment is to operate at maximum backlight, brightness and contrast of LED backlight, and adjust to max. volume of speakers with 1KHz sine waveform, 5V/0.9A for USB3.0 port.

The Clearances and Creepage Distances have additionally been assessed for suitability up to 5,000 m elevation. The required clearance is multiplied by the altitude correction factor (1.48) as specified in Table A.2 of IEC 60664-1

The product was submitted and evaluated for use at the maximum ambient temperature (T_{ma}) permitted by the manufacturer's specification of: 40 °C

The LCD Monitor can be adjustment monitor's height and operated in landscape (0 °) to portrait mode (90 °) when main board downward.

Additional Information

The Label in Copy of marking plate is a draft of an artwork pending approval by National Certification Bodies and it shall not be affixed to products prior to such an approval.

Technical Considerations and Engineering Conditions of Acceptability -

- The following magnetic devices (e.g. transformers or inductor) are provided with an OBJ2 insulation system with the indicated rating greater than Class B (130 °C): ST801 (Class B).
- The equipment is suitable for direct connection to: AC mains supply.
- Unless otherwise specified, all tests are performed on the equipment with installed fuse (SF801, SF802), rated 250V, 3.15A (Fuse manufacturer and type see table 4.1.2 for detail)

Model Differences –

Models PA243W and PA243W-BK are identical except for model designation.

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

Some components are pre-certified, which have been evaluated according to the relevant requirements of IEC 62368-1, are employed in this product. Their suitability of use has been checked according to clauses 4.1.1 and 4.1.

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.

ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:	
Electrically-caused injury (Clause 5): (Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification) Example: +5 V dc input	
ES1	
Source of electrical energy	Corresponding classification (ES)
Internal and power board circuit	ES3
X capacitor contacted between L and N	ES3
All outputs of power board	ES1
All output connectors	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)
All circuits of power board for output.	PS3
All output connectors	PS2
Output of power board	PS2
Injury caused by hazardous substances (Clause 7) (Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.) Example: Liquid in filled component	
Glycol	
Source of hazardous substances	Corresponding chemical
N/A	N/A
Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.) Example: Wall mount unit	
MS2	
Source of kinetic/mechanical energy	Corresponding classification (MS)
Equipment mass	MS2
Sharp edge and corners	MS1
Wall mount	MS3
Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.) Example: Hand-held scanner – thermoplastic enclosure	
TS1	
Source of thermal energy	Corresponding classification (TS)
All accessible parts	TS1
Radiation (Clause 10) (Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product	
RS1	
Type of radiation	Corresponding classification (RS)
LCD Panel	RS1
LED indicator	RS1

ENERGY SOURCE DIAGRAM

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

See next page

☐ **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	ES3: Internal and power board circuit	N/A	N/A	Enclosure, see 5.4.2, 5.4.3, 5.5.3 and 5.5.4
Ordinary	ES3: CX1	N/A	N/A	See 5.5.2.2
6.1	Electrically-caused fire			
Material part (e.g. mouse enclosure)	Energy Source (PS2: 100 Watt circuit)	Safeguards		
		Basic	Supplementary	Reinforced
PCB	PS3	See 6.3	Min. V-1	N/A
Metal enclosure	PS3	See 6.3	See 6.4.8	N/A
Internal Wiring	PS3	N/A	N/A	See 6.5
External Wiring	PS2	N/A	N/A	See 6.5
Other combustible components / material on power board	PS3	See 6.3	See 6.4.5, 6.4.6	N/A
Other combustible components / material on main board	PS2	See 6.3	See 6.4.5	N/A
7.1	Injury caused by hazardous substances			
Body Part (e.g., skilled)	Energy Source (hazardous material)	Safeguards		
		Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
8.1	Mechanically-caused injury			
Body Part (e.g. Ordinary)	Energy Source (MS3:High Pressure Lamp)	Safeguards		
		Basic	Supplementary	Reinforced (Enclosure)
Ordinary	MS2: Mass	--	--	See 8.6
Ordinary	MS3: Wall mount	--	--	See 8.7
9.1	Thermal Burn			
Body Part (e.g., Ordinary)	Energy Source (TS2)	Safeguards		
		Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
10.1	Radiation			
Body Part (e.g., Ordinary)	Energy Source (Output from audio port)	Safeguards		
		Basic	Supplementary	Reinforced
N/A	N/A	N/A	N/A	N/A
Supplementary Information:				
(1) See attached energy source diagram for additional details.				

(2) "N" – Normal Condition; "A" – Abnormal Condition; "S" Single Fault
--

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies	See appended Table 4.1.2.	P
4.1.2	Use of components	Safeguard components are certified to IEC and/or national standards and are used correctly within their ratings.	P
4.1.3	Equipment design and construction		P
4.1.15	Markings and instructions	See Annex F.	P
4.4.4	Safeguard robustness		P
4.4.4.2	Steady force tests	(See Annex T.2, T.3, T.4, T.5)	P
4.4.4.3	Drop tests		N/A
4.4.4.4	Impact tests	(See Annex T.6)	P
4.4.4.5	Internal accessible safeguard enclosure and barrier tests		N/A
4.4.4.6	Glass Impact tests		N/A
4.4.4.7	Thermoplastic material tests	(See Annex T.8)	P
4.4.4.8	Air comprising a safeguard	(See Annex T)	P
4.4.4.9	Accessibility and safeguard effectiveness	All safeguards remain effective.	P
4.5	Explosion	No explosion observed during normal/ abnormal/ single fault conditions.	P
4.6	Fixing of conductors		P
4.6.1	Fix conductors not to defeat a safeguard		P
4.6.2	10 N force test applied to	10N pull test performed for all relevant conductors.	P
4.7	Equipment for direct insertion into mains socket - outlets		N/A
4.7.2	Mains plug part complies with the relevant standard		N/A
4.7.3	Torque (Nm)		N/A
4.8	Products containing coin/button cell batteries	No such coin/button cell batteries provided.	N/A
4.8.2	Instructional safeguard		N/A
4.8.3	Battery Compartment Construction		N/A
	Means to reduce the possibility of children removing the battery		—
4.8.4	Battery Compartment Mechanical Tests		N/A
4.8.5	Battery Accessibility		N/A
4.9	Likelihood of fire or shock due to entry of conductive object	(See Annex P)	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5	ELECTRICALLY-CAUSED INJURY		P
5.2.1	Electrical energy source classifications	See table 5.2	P
5.2.2	ES1, ES2 and ES3 limits	See table 5.2	P
5.2.2.2	Steady-state voltage and current	See table 5.2	P
5.2.2.3	Capacitance limits.....	See table 5.2	P
5.2.2.4	Single pulse limits		N/A
5.2.2.5	Limits for repetitive pulses		N/A
5.2.2.6	Ringing signals		N/A
5.2.2.7	Audio signals		N/A
5.3	Protection against electrical energy sources		P
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons		P
5.3.2.1	Accessibility to electrical energy sources and safeguards		P
5.3.2.2	Contact requirements		P
	a) Test with test probe from Annex V.....	Figure V.1, V.2 can't contact any bare internal conductive part.	P
	b) Electric strength test potential (V)		N/A
	c) Air gap (mm)		N/A
5.3.2.4	Terminals for connecting stripped wire		N/A
5.4	Insulation materials and requirements		P
5.4.1.2	Properties of insulating material		P
5.4.1.3	Humidity conditioning	See 5.4.8.	P
5.4.1.4	Maximum operating temperature for insulating materials	See appended Table 5.4.1.4, 6.3.2, 9.0, B.2.6.	P
5.4.1.5	Pollution degree	PD2.	—
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		N/A
5.4.1.5.3	Thermal cycling		N/A
5.4.1.6	Insulation in transformers with varying dimensions		N/A
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage		P
5.4.1.9	Insulating surfaces		N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		P
5.4.1.10.2	Vicat softening temperature		N/A
5.4.1.10.3	Ball pressure	See table 5.4.1.10.3	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.2	Clearances	Procedure 2 is higher. Hence the determination of clearance is by procedure 2. (See table 5.4.2.3.)	P
5.4.2.2	Determining clearance using peak working voltage	Procedure 1: - Higher than 30kHz: Working voltage: 584Vp, CI: 0.14 mm for Reinforced - Up to 30kHz: a) Steady state voltage: 584Vp b) 1.1 times mains voltage: 373.3Vp c) Temporary overvoltage: 2000V CI: 2.54mm for Reinforced	P
5.4.2.3	Determining clearance using required withstand voltage	Procedure 2: - Required withstand voltage: 2500V, CI: 3.0mm for Reinforced	P
	a) a.c. mains transient voltage.....	2500Vpeak.	—
	b) d.c. mains transient voltage	N/A	—
	c) external circuit transient voltage.....	N/A	—
	d) transient voltage determined by measurement	N/A	—
5.4.2.4	Determining the adequacy of a clearance using an electric strength test		N/A
5.4.2.5	Multiplication factors for clearances and test voltages.....	Specified the equipment op be operated up to 5000m above sea level the required clearance is multiplied by the altitude correction factor 1.48 according to table 17. (See table 5.4.4.2, 5.4.2.4 and 5.4.3)	P
5.4.3	Creepage distances.....	See table 5.4.3	P
5.4.3.1	General		P
5.4.3.3	Material Group	CTI rating for all material of min. 100.	—
5.4.4	Solid insulation		P
5.4.4.2	Minimum distance through insulation	See table 5.4.4.2, 5.4.4.5 c), 5.4.4.9.	P
5.4.4.3	Insulation compound forming solid insulation	Certified source of photo couplers used. (See table 4.1.2)	P
5.4.4.4	Solid insulation in semiconductor devices	See 5.4.4.3	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.4.5	Cemented joints	Certified source of photo couplers used. (See table 4.1.2)	P
5.4.4.6	Thin sheet material		P
5.4.4.6.1	General requirements		P
5.4.4.6.2	Separable thin sheet material	Reinforced insulation consisting of two layers of tape, however each layer pass the electric strength test. (See table 5.4.9)	P
	Number of layers (pcs) :	2	P
5.4.4.6.3	Non-separable thin sheet material		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material..... :		N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components	See clause G.5 and G.6.	P
5.4.4.9	Solid insulation at frequencies >30 kHz..... :	See appended Table 5.4.4.9.	P
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
	Insulation resistance (MΩ) :		—
5.4.6	Insulation of internal wire as part of supplementary safeguard..... :		N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning	Humidity treatment performed to 120hrs in condition: 93% humidity, 40 °C. Electric strength test conducted after humidity treatment.	P
	Relative humidity (%) :	93	—
	Temperature (°C) :	40	—
	Duration (h) :	120	—
5.4.9	Electric strength test..... :	See table 5.4.9	P
5.4.9.1	Test procedure for a solid insulation type test	Method 1 is used.	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.9.2	Test procedure for routine tests	- Method 1: required withstand voltage: 2.5kV; test voltage for reinforced insulation according to table 26: 4kV_{peak} or d.c. - Method 2: peak working voltage: 0.55kV; test voltage for reinforced insulation according to table 27: 1.28kV_{peak} or d.c - Method 3: nominal mains voltage: <250V_{rms}; test voltage for reinforced insulation according to table 28: 4kV_{peak} or d.c	P
5.4.10	Protection against transient voltages between external circuit		N/A
5.4.10.1	Parts and circuits separated from external circuits		N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test..... :		N/A
5.4.10.2.3	Steady-state test :		N/A
5.4.11	Insulation between external circuits and earthed circuitry..... :		N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A
	Rated operating voltage U_{op} (V) :		—
	Nominal voltage U_{peak} (V) :		—
	Max increase due to variation U_{sp} :		—
	Max increase due to ageing ΔU_{sa} :		—
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$:		—
5.5	Components as safeguards		
5.5.1	General	See below.	P
5.5.2	Capacitors and RC units	Approved X and Y capacitors provided. (See table 4.1.2)	P
5.5.2.1	General requirement		P
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector :	See table 5.5.2.2	P
5.5.3	Transformers	See Annex G.5.3	P
5.5.4	Optocouplers	See 5.4	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.5.5	Relays		N/A
5.5.6	Resistors		N/A
5.5.7	SPD's		N/A
5.5.7.1	Use of an SPD connected to reliable earthing		N/A
5.5.7.2	Use of an SPD between mains and protective earth		N/A
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable		N/A
5.6	Protective conductor		P
5.6.2	Requirement for protective conductors		P
5.6.2.1	General requirements		P
5.6.2.2	Colour of insulation	The insulation is Green-and-yellow colour.	P
5.6.3	Requirement for protective earthing conductors		P
	Protective earthing conductor size (mm ²)	3.5 mm ²	—
5.6.4	Requirement for protective bonding conductors		P
5.6.4.1	Protective bonding conductors		P
	Protective bonding conductor size (mm ²).....	18AWG, 0.75mm ²	—
	Protective current rating (A)	3.15A	—
5.6.4.3	Current limiting and overcurrent protective devices	No such components on the earthing / bonding path.	P
5.6.5	Terminals for protective conductors		P
5.6.5.1	Requirement		P
	Conductor size (mm ²), nominal thread diameter (mm).....	3.5mm min.	P
5.6.5.2	Corrosion		P
5.6.6	Resistance of the protective system		P
5.6.6.1	Requirements		P
5.6.6.2	Test Method Resistance (Ω)	See table 5.6.6.2	P
5.6.7	Reliable earthing		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	Peak voltage used.	P
5.7.2.2	Measurement of prospective touch voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections		P
	System of interconnected equipment (separate connections/single connection)	Single connection.	—

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Multiple connections to mains (one connection at a time/simultaneous connections)..... :	Single connection to mains.	—
5.7.4	Earthed conductive accessible parts	Touch current at earthed accessible conductive parts is not exceeding ES2 limits.	P
5.7.5	Protective conductor current		P
	Supply Voltage (V)	240Vac.	—
	Measured current (mA)	1.0mA	—
	Instructional Safeguard		N/A
5.7.6	Prospective touch voltage and touch current due to external circuits		N/A
5.7.6.1	Touch current from coaxial cables		N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits		N/A
5.7.7	Summation of touch currents from external circuits		N/A
	a) Equipment with earthed external circuits Measured current (mA)		N/A
	b) Equipment whose external circuits are not referenced to earth. Measured current (mA)		N/A

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	See Energy source identification and classification table.	P
6.2.2.1	General		P
6.2.2.2	Power measurement for worst-case load fault ... :		N/A
6.2.2.3	Power measurement for worst-case power source fault		N/A
6.2.2.4	PS1		N/A
6.2.2.5	PS2	See 6.2.2.	P
6.2.2.6	PS3	See 6.2.2.	P
6.2.3	Classification of potential ignition sources	All conductors and devices are considered as PIS.	P
6.2.3.1	Arcing PIS	See above.	P
6.2.3.2	Resistive PIS	See above.	P
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	See appended Table 5.4.1.4, 6.3.2, 9.0, B.2.6.	P
6.3.1 (b)	Combustible materials outside fire enclosure		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
6.4	Safeguards against fire under single fault conditions		P
6.4.1	Safeguard Method	Method of Control fire spread used.	P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		N/A
6.4.3.1	General		N/A
6.4.3.2	Supplementary Safeguards		N/A
	Special conditions if conductors on printed boards are opened or peeled		N/A
6.4.3.3	Single Fault Conditions..... :		N/A
	Special conditions for temperature limited by fuse		N/A
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits		P
6.4.5.2	Supplementary safeguards :	See appended tables 4.1.2 and Annex G.	P
6.4.6	Control of fire spread in PS3 circuit		P
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.1	General..... :		N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier		N/A
6.4.8	Fire enclosures and fire barriers		P
6.4.8.1	Fire enclosure and fire barrier material properties	Equipment enclosure was evaluated as a fire enclosure.	P
6.4.8.2.1	Requirements for a fire barrier		N/A
6.4.8.2.2	Requirements for a fire enclosure	Material for fire enclosure was made of metal and plastic. Material for components that fill an opening in a fire enclosure is made of V-1 class material. (See table 4.1.2)	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		P
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm) :	Openings didn't exceed 5 mm in any dimension.	P
	Needle Flame test	See above.	N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm) :	Openings didn't exceed 3 mm in any dimension.	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Flammability tests for the bottom of a fire enclosure		N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)		N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating		N/A
6.5	Internal and external wiring		P
6.5.1	Requirements		P
6.5.2	Cross-sectional area (mm ²)	See table 4.1.2	—
6.5.3	Requirements for interconnection to building wiring		N/A
6.6	Safeguards against fire due to connection to additional equipment	See Annex Q.	P
	External port limited to PS2 or complies with Clause Q.1	See Annex Q.	P

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		N/A
7.2	Reduction of exposure to hazardous substances	No hazardous chemicals within the equipment.	N/A
7.3	Ozone exposure	No ozone produces within this equipment.	N/A
7.4	Use of personal safeguards (PPE)	No such consideration.	N/A
	Personal safeguards and instructions	See above.	—
7.5	Use of instructional safeguards and instructions	No such consideration.	N/A
	Instructional safeguard (ISO 7010)	See above.	—
7.6	Batteries.....	No batteries provided.	N/A

8	MECHANICALLY-CAUSED INJURY		P
8.1	General		P
8.2	Mechanical energy source classifications		P
8.3	Safeguards against mechanical energy sources		P
8.4	Safeguards against parts with sharp edges and corners		N/A
8.4.1	Safeguards		N/A
8.5	Safeguards against moving parts	No moving parts.	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
8.5.2	Instructional Safeguard.....		—
8.5.4	Special categories of equipment comprising moving parts		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
8.5.4.1	Large data storage equipment		N/A
8.5.4.2	Equipment having electromechanical device for destruction of media		N/A
8.5.4.2.1	Safeguards and Safety Interlocks		N/A
8.5.4.2.2	Instructional safeguards against moving parts		N/A
	Instructional Safeguard		—
8.5.4.2.3	Disconnection from the supply		N/A
8.5.4.2.4	Probe type and force (N)		N/A
8.5.5	High Pressure Lamps		N/A
8.5.5.1	Energy Source Classification		N/A
8.5.5.2	High Pressure Lamp Explosion Test		N/A
8.6	Stability		P
8.6.1	Product classification	Equipment mass 7.87 kg, classified as MS2.	P
	Instructional Safeguard		—
8.6.2	Static stability		P
8.6.2.2	Static stability test		P
	Applied Force	The equipment is tipped at any angle up to and including 10° from the vertical.	—
8.6.2.3	Downward Force Test		N/A
8.6.3	Relocation stability test		N/A
	Unit configuration during 10° tilt		—
8.6.4	Glass slide test		P
8.6.5	Horizontal force test (Applied Force)	10.1N	P
	Position of feet or movable parts		—
8.7	Equipment mounted to wall or ceiling		P
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)	Length 10mm of screws, Wall	P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
8.7.2	Direction and applied force	Test 1 : N/A Test 2 : applied 49.5N (4 times the weight of equipment) (Each point in the mounting system shall be subjected to a shear force perpendicular to its centre axis for 1 min. The force shall be applied in four directions, one direction at a time, separated by 90°. Each point in the mounting system, one at a time, shall be subjected to an inward directed push force parallel to its centre axis for 1 min. Each point in the mounting system, one at a time, shall be subjected to an outward directed pull force parallel to its centre axis for 1 min.) Test 3: Metal screw (Ø3.8mm) for attachment of the mounting means. Each threaded part subjected to 1.2 N.m. The each threaded part not become dislodged and remain mechanically intact and secure during the test.	P
8.8	Handles strength		N/A
8.8.1	Classification		N/A
8.8.2	Applied Force		N/A
8.9	Wheels or casters attachment requirements		N/A
8.9.1	Classification		N/A
8.9.2	Applied force		—
8.10	Carts, stands and similar carriers		N/A
8.10.1	General		N/A
8.10.2	Marking and instructions		N/A
	Instructional Safeguard		—
8.10.3	Cart, stand or carrier loading test and compliance		N/A
	Applied force		—
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability		N/A
	Applied horizontal force (N)		—
8.10.6	Thermoplastic temperature stability (°C)		N/A
8.11	Mounting means for rack mounted equipment		N/A
8.11.1	General		N/A
8.11.2	Product Classification		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
8.11.3	Mechanical strength test, variable <i>N</i>		N/A
8.11.4	Mechanical strength test 250N, including end stops		N/A
8.12	Telescoping or rod antennas	No such.	N/A
	Button/Ball diameter (mm)		—

9	THERMAL BURN INJURY		P
9.2	Thermal energy source classifications		P
9.3	Safeguard against thermal energy sources		P
9.4	Requirements for safeguards		P
9.4.1	Equipment safeguard		P
9.4.2	Instructional safeguard		N/A

10	RADIATION		P
10.2	Radiation energy source classification		P
10.2.1	General classification		P
10.3	Protection against laser radiation		N/A
	Laser radiation that exists equipment:		—
	Normal, abnormal, single-fault..... :		N/A
	Instructional safeguard		—
	Tool..... :		—
10.4	Protection against visible, infrared, and UV radiation		N/A
10.4.1	General		N/A
10.4.1.a)	RS3 for Ordinary and instructed persons		N/A
10.4.1.b)	RS3 accessible to a skilled person..... :		N/A
	Personal safeguard (PPE) instructional safeguard..... :		—
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1 . :		N/A
10.4.1.d)	Normal, abnormal, single-fault conditions		N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque..... :		N/A
10.4.1.f)	UV attenuation		N/A
10.4.1.g)	Materials resistant to degradation UV		N/A
10.4.1.h)	Enclosure containment of optical radiation..... :		N/A
10.4.1.i)	Exempt Group under normal operating conditions..... :		N/A
10.4.2	Instructional safeguard		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
10.5	Protection against x-radiation		N/A
10.5.1	X- radiation energy source that exists equipment :		N/A
	Normal, abnormal, single fault conditions		N/A
	Equipment safeguards..... :		N/A
	Instructional safeguard for skilled person..... :		N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation :		—
	Abnormal and single-fault condition :		N/A
	Maximum radiation (pA/kg)..... :		N/A
10.6	Protection against acoustic energy sources		N/A
10.6.1	General		N/A
10.6.2	Classification		N/A
	Acoustic output, dB(A) :		N/A
	Output voltage, unweighted r.m.s..... :		N/A
10.6.4	Protection of persons		N/A
	Instructional safeguards :		N/A
	Equipment safeguard prevent ordinary person to RS2..... :		—
	Means to actively inform user of increase sound pressure..... :		—
	Equipment safeguard prevent ordinary person to RS2..... :		—
10.6.5	Requirements for listening devices (headphones, earphones, etc.)		N/A
10.6.5.1	Corded passive listening devices with analog input		N/A
	Input voltage with 94 dB(A) L_{Aeq} acoustic pressure output..... :		—
10.6.5.2	Corded listening devices with digital input		N/A
	Maximum dB(A) :		—
10.6.5.3	Cordless listening device		N/A
	Maximum dB(A) :		—

B	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		P
B.2	Normal Operating Conditions	See below	P
B.2.1	General requirements..... :	See Test Item Particulars and appended test tables.	P
	Audio Amplifiers and equipment with audio amplifiers :		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
B.2.3	Supply voltage and tolerances	+10% and -10% for a.c. mains.	P
B.2.5	Input test..... :	See Table B.2.5.	P
B.3	Simulated abnormal operating conditions		P
B.3.1	General requirements..... :	See table B.3.	P
B.3.2	Covering of ventilation openings	See table B.3.	P
B.3.3	D.C. mains polarity test		N/A
B.3.4	Setting of voltage selector :		N/A
B.3.5	Maximum load at output terminals :	See table B.3.	P
B.3.6	Reverse battery polarity		N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions		P
B.4	Simulated single fault conditions		P
B.4.2	Temperature controlling device open or short-circuited :		N/A
B.4.3	Motor tests		N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature :		N/A
B.4.4	Short circuit of functional insulation		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	See table B.4	P
B.4.6	Short circuit or disconnect of passive components	See table B.4	P
B.4.7	Continuous operation of components		N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	See table B.4	P
B.4.9	Battery charging under single fault conditions ... :		N/A

C	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation		N/A
C.1.2	Requirements		N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure apparatus		N/A
C.2.4	Xenon-arc light exposure apparatus		N/A

D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A

E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		N/A
E.1	Audio amplifier normal operating conditions	No such amplifier provided with the equipment.	N/A
	Audio signal voltage (V)		—
	Rated load impedance (Ω)		
E.2	Audio amplifier abnormal operating conditions		N/A

F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		P
F.1	General requirements		P
	Instructions – Language	English.	—
F.2	Letter symbols and graphical symbols		P
F.2.1	Letter symbols according to IEC60027-1	Letter symbols and units are complied with IEC 60027-1	P
F.2.2	Graphic symbols IEC, ISO or manufacturer specific		P
F.3	Equipment markings		P
F.3.1	Equipment marking locations	The equipment marking is located on the surface and is easily visible.	P
F.3.2	Equipment identification markings		P
F.3.2.1	Manufacturer identification	See copy of marking plate.	—
F.3.2.2	Model identification	See copy of marking plate.	—
F.3.3	Equipment rating markings		P
F.3.3.1	Equipment with direct connection to mains		P
F.3.3.2	Equipment without direct connection to mains		N/A
F.3.3.3	Nature of supply voltage.....	See copy of marking plate.	—
F.3.3.4	Rated voltage	See copy of marking plate.	—
F.3.3.4	Rated frequency	See copy of marking plate.	—

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
F.3.3.6	Rated current or rated power	See copy of marking plate.	—
F.3.3.7	Equipment with multiple supply connections		N/A
F.3.4	Voltage setting device		N/A
F.3.5	Terminals and operating devices		P
F.3.5.1	Mains appliance outlet and socket-outlet markings		N/A
F.3.5.2	Switch position identification marking		N/A
F.3.5.3	Replacement fuse identification and rating markings	Fuse marking on PCB near fuse (SF801, SF802): T3.15AH/250V.	P
F.3.5.4	Replacement battery identification marking		N/A
F.3.5.5	Terminal marking location		N/A
F.3.6	Equipment markings related to equipment classification		P
F.3.6.1	Class I Equipment		P
F.3.6.1.1	Protective earthing conductor terminal		P
F.3.6.1.2	Neutral conductor terminal		N/A
F.3.6.1.3	Protective bonding conductor terminals		P
F.3.6.2	Class II equipment (IEC60417-5172)		N/A
F.3.6.2.1	Class II equipment with or without functional earth		N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking		N/A
F.3.7	Equipment IP rating marking	IPX0	—
F.3.8	External power supply output marking		N/A
F.3.9	Durability, legibility and permanence of marking		P
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test, 15 sec. for water and 15 sec. for petroleum spirit. After each test, the marking remained legible.	P
F.4	Instructions		P
	a) Equipment for use in locations where children not likely to be present – marking		N/A
	b) Instructions given for installation or initial use	Relevant safety caution texts and installation instruction are available.	P
	c) Equipment intended to be fastened in place		N/A
	d) Equipment intended for use only in restricted access area	The equipment not intended for installation in a restricted access area.	N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	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		P
	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		P
	Where “instructional safeguard” is referenced in the test report it specifies the required elements, location of marking and/or instruction		P

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

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.3.4	Overcurrent protection devices		P
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.5		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions.....:		N/A
G.4	Connectors		P
G.4.1	Spacings		P
G.4.2	Mains connector configuration		P
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely		P
G.5	Wound Components		P
G.5.1	Wire insulation in wound components.....	Considered.	P
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	Mechanical stress relief achieved by tube and insulation tape.	P
G.5.1.2 b)	Construction subject to routine testing		N/A
G.5.2	Endurance test on wound components		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Time (s)		—
	Temperature (°C)		—
G.5.2.3	Wound Components supplied by mains		N/A
G.5.3	Transformers		P
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1).....	The transformer meets the requirements given in G.5.3.2 and G.5.3.3	P
	Position.....	ST801	—
	Method of protection	By protection circuit.	—
G.5.3.2	Insulation	See table G.5.3.2 in attached test table.	P
	Protection from displacement of windings.....	Insulation tape and tubing used.	—
G.5.3.3	Overload test	See table B.3	P
G.5.3.3.1	Test conditions	Tested in the complete equipment.	P
G.5.3.3.2	Winding Temperatures testing in the unit	See table B.3	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		N/A
	Position		—
G.5.4.2	Test conditions		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.5.4.3	Running overload test		N/A
G.5.4.4	Locked-rotor overload test		N/A
	Test duration (days)		—
G.5.4.5	Running overload test for d.c. motors in secondary circuits		N/A
G.5.4.5.2	Tested in the unit		N/A
	Electric strength test (V)		—
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h)		N/A
	Electric strength test (V)		—
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits		N/A
G.5.4.6.2	Tested in the unit		N/A
	Maximum Temperature		N/A
	Electric strength test (V)		N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)		N/A
	Electric strength test (V)		N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
	Operating voltage		—
G.6	Wire Insulation		P
G.6.1	General		P
G.6.2	Solvent-based enamel wiring insulation		N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements	No such components provided.	N/A
	Type.....		—
	Rated current (A)		—
	Cross-sectional area (mm ²), (AWG).....		—
G.7.2	Compliance and test method		N/A
G.7.3	Cord anchorages and strain relief for non-detachable power supply cords		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N)		—
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm)....		—

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.7.3.2.4	Strain relief comprised of polymeric material		N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Mass (g)		—
	Diameter (m)		—
	Temperature (°C)		—
G.7.6	Supply wiring space		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Test with 8 mm strand		N/A
G.8	Varistors		P
G.8.1	General requirements	Certified source used. See table 4.1.2.	P
G.8.2	Safeguard against shock		P
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test		N/A
G.8.3.3	Temporary overvoltage		N/A
G.9	Integrated Circuit (IC) Current Limiters		N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.		N/A
G.9.1 b)	Limiters do not have manual operator or reset		N/A
G.9.1 c)	Supply source does not exceed 250 VA		—
G.9.1 d)	IC limiter output current (max. 5A)		—
G.9.1 e)	Manufacturers' defined drift		—
G.9.2	Test Program 1		N/A
G.9.3	Test Program 2		N/A
G.9.4	Test Program 3		N/A
G.10	Resistors		N/A
G.10.1	General requirements		N/A
G.10.2	Resistor test		N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable		N/A
G.10.3.1	General requirements		N/A
G.10.3.2	Voltage surge test		N/A
G.10.3.3	Impulse test		N/A
G.11	Capacitor and RC units		P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.11.1	General requirements	X and Y-Capacitor used as safeguard and complied with IEC/EN 60384-14 (See table 4.1.2)	P
G.11.2	Conditioning of capacitors and RC units		P
G.11.3	Rules for selecting capacitors		P
G.12	Optocouplers		P
	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	Certified source used. See table 4.1.2	P
	Type test voltage Vini		—
	Routine test voltage, Vini,b		—
G.13	Printed boards		P
G.13.1	General requirements		P
G.13.2	Uncoated printed boards		P
G.13.3	Coated printed boards		N/A
G.13.4	Insulation between conductors on the same inner surface		N/A
	Compliance with cemented joint requirements (Specify construction)		—
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation		N/A
	Number of insulation layers (pcs)		—
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2a)	Thermal conditioning		N/A
G.13.6.2b)	Electric strength test		N/A
G.13.6.2c)	Abrasion resistance test		N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements		N/A
G.15	Liquid filled components		N/A
G.15.1	General requirements		N/A
G.15.2	Requirements		N/A
G.15.3	Compliance and test methods		N/A
G.15.3.1	Hydrostatic pressure test		N/A
G.15.3.2	Creep resistance test		N/A
G.15.3.3	Tubing and fittings compatibility test		N/A
G.15.3.4	Vibration test		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
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 $U_c =$ to transient voltage		N/A
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	No telephone ringing signal.	N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz)		—
H.3.1.2	Voltage (V)		—
H.3.1.3	Cadence; time (s) and voltage (V)		—
H.3.1.4	Single fault current (mA):.....		—
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)		—

J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		P
	General requirements	Approved triple insulated wire used. (See appended table 4.1.2.)	P

K	SAFETY INTERLOCKS		N/A
K.1	General requirements	No such components used.	N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
K.2	Components of safety interlock safeguard mechanism		N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location)		N/A
K.7.2	Overload test, Current (A)		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A

L	DISCONNECT DEVICES		P
L.1	General requirements		P
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single phase equipment	The disconnect device disconnect both poles simultaneously.	P
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A

M	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Requirements		N/A
M.2.2	Compliance and test method (identify method) .. :		N/A
M.3	Protection circuits		N/A
M.3.1	Requirements		N/A
M.3.2	Tests		N/A
	- Overcharging of a rechargeable battery		N/A
	- Unintentional charging of a non-rechargeable battery		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		N/A
M.3.3	Compliance		N/A
M.4	Additional safeguards for equipment containing secondary lithium battery		N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Charging operating limits		N/A
M.4.2.2 a)	Charging voltage, current and temperature		—
M.4.2.2 b)	Single faults in charging circuitry		—
M.4.3	Fire Enclosure		N/A
M.4.4	Endurance of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation		N/A
M.4.4.3	Drop and charge/discharge function tests		N/A
	Drop		N/A
	Charge		N/A
	Discharge		N/A
M.4.4.4	Charge-discharge cycle test		N/A
M.4.4.5	Result of charge-discharge cycle test		N/A
M.5	Risk of burn due to short circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A
M.6	Prevention of short circuits and protection from other effects of electric current		N/A
M.6.1	Short circuits		N/A
M.6.1.1	General requirements		N/A
M.6.1.2	Test method to simulate an internal fault		N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)		N/A
M.6.2	Leakage current (mA)		N/A
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
M.8.2	Test method		N/A
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) :		N/A

N	ELECTROCHEMICAL POTENTIALS		P
	Metal(s) used :	Suitable materials used.	—

O	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		P
	Figures O.1 to O.20 of this Annex applied..... :	Complied.	—

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		P
	Location and Dimensions (mm) :	For rear enclosure opening, the dimensions are less than 5.0 mm.	—
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		P
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts :		N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard) :		N/A
P.3	Safeguards against spillage of internal liquids		N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness		N/A
P.4	Metallized coatings and adhesive securing parts		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
P.4.2 a)	Conditioning testing		N/A
	Tc (°C)..... :		—
	Tr (°C) :		—
	Ta (°C)..... :		—
P.4.2 b)	Abrasion testing :		N/A
P.4.2 c)	Mechanical strength testing :		N/A

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

S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material :		—
	Wall thickness (mm)..... :		—
	Conditioning (°C)..... :		—
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material		—
	Wall thickness (mm)		—
	Conditioning (°C)		—
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material		—
	Wall thickness (mm)		—
	Cheesecloth did not ignite		N/A
S.4	Flammability classification of materials		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

T	MECHANICAL STRENGTH TESTS		P
T.1	General requirements		P
T.2	Steady force test, 10 N	See table T.2.	P
T.3	Steady force test, 30 N		N/A
T.4	Steady force test, 100 N		N/A
T.5	Steady force test, 250 N	See table T.5.	P
T.6	Enclosure impact test		P
	Fall test	See table T.6.	P
	Swing test		N/A
T.7	Drop test		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
T.8	Stress relief test	See table T.8.	P
T.9	Impact Test (glass)		N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A
	Impact energy (J)		—
	Height (m)		—
T.10	Glass fragmentation test		N/A
T.11	Test for telescoping or rod antennas		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		N/A
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A
U.3	Protective Screen.....		N/A

V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)		P
V.1	Accessible parts of equipment	Following the probes test specified in this annex Figure V.1, V.2 are suitable.	P
V.2	Accessible part criterion	No live parts can be accessible.	P

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

4.1.2	TABLE: List of critical components					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹	
LCD Panel	LG Display	LM240WU9	24.1" TFT-LCD	--	--	
PCB	--	--	V-1 min., 105°C min.	UL 796	UL	
Plastic enclosure	Teijin Chemicals Plastic Compunds Shanghai Ltd.	TN-7500(c)	V-1 min., thick: 1.2mm min	UL 94	UL	
	Teijin Limited Resin And Pastic	TN-7500(c)	V-1 min., thick: 1.2mm min	UL 94	UL	
USB port plastic cover	Teijin Chemicals Plastic Compunds Shanghai Ltd.	TN-7500(c)	V-1 min., thick: 1.2mm min	UL 94	UL	
	Teijin Limited Resin And Pastic	TN-7500(c)	V-1 min., thick: 1.2mm min	UL 94	UL	
Metal enclosure	--	--	Metal, 0.81 mm thickness min	--	--	
Stand base	Interchangeable	Interchangeable	HB min., cover with metal. Weight approx 2.82kg.	--	--	
Speaker (two provided)	--	--	4ohm min. 3W max.	--	--	
AC Inlet	Zhangjigang Huajie Electronic Co., Ltd.	SA-4S	10A, 250V	IEC/EN 60320-1, UL 498	VDE, CSA, UL	
Power board : Compal Electronics Inc., P/N: VP-2327						
Primary connector (SP801)	Jowle Technology Co., Ltd.	A3963 series	7A, 250Vac	IEN 61984: 2001, UL 1977	TUV, UL, CSA	
Fuse (SF801, SF802)	Conquer	UDA-P series	T3.15AH, 250Vac	IEC/EN 60127-2	VDE, S, UL, CSA	
Y-Cap (SC805, SC808) (Y1 type)	TDK Corporation	CD	470pF max., 250V min., 85°C min.	IEC/EN 60384- 14: 2014, UL 1414	VDE, UL	
	Capatronics Electronics (Kunshan) Co., Ltd.	Y5P, Y5V, Y5U (B Series, E Series, F Series for UL)	470pF max., 250V min., 85°C min.	IEC/EN 60384- 14: 2014, UL 1414	VDE, UL, S, FI, N, D	

IEC 62368-1					
Clause	Requirement + Test			Result - Remark	Verdict
	Murata Mfg Co., Ltd.	KX	470pF max., 250V min., 85°C min.	IEC/EN 60384-14: 2014, UL 1414	VDE, UL
Y-Cap (SC801, SC802, SC807) (Y1 type)	TDK Corporation	CD	100pF max., 250V min., 85°C min.	IEC/EN 60384-14: 2014, UL 1414	VDE, UL
	Capatronics Electronics (Kunshan) Co., Ltd.	Y5P, Y5V, Y5U (B Series, E Series, F Series for UL)	100pF max., 250V min., 85°C min.	IEC/EN 60384-14: 2014, UL 1414	VDE, UL, S, FI, N, D
	Murata Mfg Co., Ltd.	KX	100pF max., 250V min., 85°C min.	IEC/EN 60384-14: 2014, UL 1414	VDE, UL
Bridging-Cap (SC800, SC809) (Y1 type)	TDK Corporation	CD	2200pF max., 250V min., 85°C min.	IEC/EN 60384-14: 2014, UL 1414	VDE, UL
	Capatronics Electronics (Kunshan) Co., Ltd.	Y5P, Y5V, Y5U (B Series, E Series, F Series for UL)	2200pF max., 250V min., 85°C min.	IEC/EN 60384-14: 2014, UL 1414	VDE, UL, S, FI, N, D
	Murata Mfg Co., Ltd.	KX	2200pF max., 250V min., 85°C min.	IEC/EN 60384-14: 2014, UL 1414	VDE, UL
Varistor (SVA801)	Thinking Electronics Industrial Co., Ltd.	TVR10681	350 Vac, 385 Vdc, 40/85/56, 6KV/5KA, pluse test passed (Flame class of body coating complied with V-0)	IEC/EN 61051-1 IEC/EN 61051-2 IEC/EN 61051-2-2 ANSI/UL 1449: SPD type 3 approved	VDE, UL
X-Capacitor (SC803) (optional)	Joey Electronics (Dong Guan) Co., Ltd.	MPX	0.33μF max., 275V min., 85°C min.	IEC/EN 60384-14: 2005, UL 1414	VDE, UL
	Iskra, D D	KNB1560	0.33μF max., 275V min., 85°C min.	IEC/EN 60384-14: 2005, UL 1414	VDE, UL
Bleeder Resistors (SR801, SR802, SR803, SR804)	--	--	1.5MΩ, 1/4 W	--	--
Thermistor (SRT801, SRT802) (optional)	--	--	1Ω at 25°C, max. 5A.	--	--

IEC 62368-1					
Clause	Requirement + Test		Result - Remark		Verdict
Bridge diode (SBD801)	--	--	800V min., 2A min.	--	--
Storage Capacitor (SC806)	--	--	150µF, 400V min., 105 °C	--	--
Transistors (SQ801)	--	--	700V min, 8A	--	--
Current Sense Resister (SR805)	interchangeable	interchangeable	0.39Ω, 2W min.	--	--
Photo Coupler (SU800)	Lite-On Technology Corporation	LTV-817 series	Dti= 0.4mm, distance between input/output: 7.0mm, Transient overvoltage: 3000V min., 100°C	IEC 60950-1 EN 60747-5-2	VDE, UL
Choke (SL802, SL803)	Zhong Rui Electronic Co., Ltd.	FT19-Z91704	105 °C min.	--	--
Transformer (ST801)	Zhong Rui Electronic Co., Ltd.	PQ32-Z91712	Class 130 material (B)	Applicable parts of IEC 60950-1 and according to IEC 60085	--
-Triple Insulation wire for ST801	Cosmolink Co., Ltd.	TIW-M Series	130 °C	IEC 60950-1	VDE
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.					

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		

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

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:			

5.2	Table: Classification of electrical energy sources						P
5.2.2.2 – Steady State Voltage and Current conditions							
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters			ES Class
				U (Vrms or Vpk)	I (Apk or Arms)	Hz	
For power board							

IEC 62368-1							
Clause	Requirement + Test			Result - Remark			Verdict
1	264Vac	P802 pin 1, 2, 3 - Earth	Normal	16.40	--	--	ES1
			Abnormal – see table B.3 for detail	16.40	--	--	
			Single fault – see table B.4 for detail	0	--	--	
2	264Vac	P804 pin 3, 4 - Earth	Normal	53.12	--	--	ES1
			Abnormal – see table B.3 for detail	53.12	--	--	
			Single fault – see table B.4 for detail	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	264Vac	SC803	Normal	330 (±20%)	375.0	ES3
			Abnormal	--	--	
			Single fault – SC/OC	--	--	

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 - Max. normal load.

Abnormal - Output short

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

IEC 62368-1					
Clause	Requirement + Test			Result - Remark	Verdict
5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurements				P
	Supply voltage (V)	90V/60Hz	90V/60Hz	264V/60Hz	—
	Ambient T_{min} (°C)	--	--	--	—
	Ambient T_{max} (°C)	--	--	--	—
	Tma (°C)	--	--	--	—
Maximum measured temperature T of part/at:		T (°C)			Allowed T_{max} (°C)
Test location		Horizontal	Vertical	Vertical	--
AC inlet near L pin		45.9	54.3	52.9	70
L wire body		48.4	61.9	59.7	70
Primary connector (SP801) body		51.2	65.4	62.8	70
Varistor (SVA801) body		53.8	67.5	64.1	85
SL802 coil		67.2	78.3	68.5	105
SC803 body		61.6	74.2	68.1	85
SL803 coil		75.3	82.0	69.3	105
PCB near RT802		79.9	80.9	70.4	105
PCB near SBD801		71.2	77.8	70.6	105
PCB near SQ801		71.7	75.2	72.9	105
SC806 body		56.9	67.2	65.2	85
SC809 body		52.3	58.3	58.3	85
Transformer (ST801) coil		72.3	73.8	74.1	110
Transformer (ST801) core		69.5	73.6	74.0	110
SU800 body		68.4	71.9	71.5	100
PCB near D851		83.7	80.9	82.2	105
L851 coil		78.4	61.7	61.7	105
L901 coil		85.6	75.2	75.2	105
PCB near D901		81.2	73.5	73.5	105
PCB near U13 (Main board)		77.2	72.1	71.9	105
Plastic enclosure inside near ST801		46.0	46.4	46.0	60
Ambient (actual temp.)		40.0 (20.6)	40.0 (20.7)	40.0 (20.9)	--
Plastic enclosure outside near ST801		30.5	31.4	30.2	48
Panel body		33.5	33.3	33.0	48
Button body		32.5	31.0	30.8	48

IEC 62368-1							
Clause	Requirement + Test			Result - Remark			Verdict
Ambient (actual temp.)	25.0 (20.6)			25.0 (20.7)	25.0 (20.9)	--	
Abnormal condition	Openings blocked			--	--	--	
AC inlet near L pin	56.3			--	--	300	
L wire body	63.4			--	--	300	
Primary connector (SP801) body	67.8			--	--	300	
Varistor (SVA801) body	70.7			--	--	300	
SL802 coil	74.8			--	--	300	
SC803 body	74.3			--	--	300	
SL803 coil	75.7			--	--	300	
PCB near RT802	77.3			--	--	300	
PCB near SBD801	78.0			--	--	300	
PCB near SQ801	80.1			--	--	300	
SC806 body	71.3			--	--	300	
SC809 body	66.8			--	--	300	
Transformer (ST801) coil	83.7			--	--	300	
Transformer (ST801) core	82.8			--	--	300	
SU800 body	80.1			--	--	300	
PCB near D851	89.7			--	--	300	
L851 coil	69.9			--	--	300	
L901 coil	83.3			--	--	300	
PCB near D901	83.1			--	--	300	
PCB near U13(Main board)	75.8			--	--	300	
Plastic enclosure inside near ST801	47.0			--	--	300	
Ambient (actual temp.)	40.0 (20.6)			--	--	--	
Plastic enclosure outside near ST801	32.7			--	--	48	
Panel body	34.4			--	--	48	
Button body	31.2			--	--	48	
Ambient (actual temp.)	25.0 (20.6)			--	--	--	
Supplementary information:							
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class

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

Supplementary information:

Note 1: Tma should be considered as directed by applicable requirement

Note 2: Tma is not included in assessment of Touch Temperatures (Clause 9)

Note 3: The temperatures were measured under the worse case normal mode defined in the table B.2.5.

5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics		N/A
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)	
Primary connector / SP801/ Plastic	Jowle Technology Co., Ltd. / A3963 series	125	1.2	
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)
Functional							
Line trace to Neutral trace before fuse	420	250	--	2.3 ¹	4.8	2.5	4.8
Under Fuse (SF801)			--		21.4		21.4
Under Fuse (SF802)			--		11.0		11.0
Basic/supplementary							
Primary component (with 10N) or trace to earthed component (with 10N) or trace	420	250	--	2.3 ¹	See below	2.5	See below
Under SC802 + SC807			48		13.3		13.3
Under SC801 + SC807			48		13.3		13.3
Under SC808			48		6.4		6.4
Under SC805			48		3.7		3.7
Under SVA801 primary trace to earthed trace			--		6.5		6.5

IEC 62368-1							
Clause	Requirement + Test			Result - Remark			Verdict
SHS802 to metal chassis			--		5.0		5.0
Primary trace to earthed panel metal part			--		3.3		3.3
Primary trace or component (with 10N) to floating component	420	250	--	2.3 ¹	See below	2.5	See below
Under SC801			48		6.6		6.6
Under SC807			48		6.7		6.7
Under SC802			48		6.6		6.6
Under SC800			48		7.0		7.0
Under SC809			48		6.7		6.7
Reinforced:							
Primary trace to secondary component or trace	420	250	--	4.5 ¹	See below	5.0	See below
Under SC809 + SC800			48		13.7		13.7
Under SU800			48		7.6		7.6
Under ST801	584	279	48	4.5 ¹	10.3	5.6	10.3
Primary conductor of power switch to user accessible area (evaluated for all source of power switch)			--		More than 10		More than 10
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							
1. The required clearances multiplied by 1.48 considering that EUT operates up to 5000 m.							
2. For clearance and creepage did not describe above are far larger than limit above.							
3. All internal wires are located by mechanical fixings to keep distance.							
4. Glued component: SC806.							

5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage				P
	Overvoltage Category (OV):				II
	Pollution Degree:				2
Clearance distanced between:		Required withstand voltage	Required cl (mm)	Measured cl (mm)	
1)		2500	4.5 (3.0*1.48)	1)	
Supplementary information:					
1) See table 5.4.2.2, 5.4.2.4 and 5.4.3 for measurements.					

5.4.2.4	TABLE: Clearances based on electric strength test	N/A
----------------	--	-----

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
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)	
Optocouplers (SU800) (reinforced insulation)	420	48	--	0.4	1)	
Insulation tape (For Transformer) (reinforced insulation)	584	48	--	1 layer	1)	
Supplementary information:						
1) See table 4.1.2						
2) According to clause 5.4.4.9:						
For <u>Insulation tape</u> (type: Jingjiang Yahua / CT) , alternate method is used:						
Kr=0.46, Vpw=584Vp. Required electric strength test voltage: $1.2 \times 2 \times 584 / 0.46 = 3047 \text{Vpeak}$						
For <u>Photo coupler</u> , alternate method is used:						
Kr=0.35, Vpw=420Vp. Required electric strength test voltage: $1.2 \times 2 \times 420 / 0.35 = 2880 \text{Vpeak}$						

5.4.9	TABLE: Electric strength tests			P
Test voltage applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No	
Functional:				
--	--	--	--	
Basic/supplementary:				
Unit: primary and earth (Metal enclosure)	DC	2500	No	
Reinforced:				
Unit: primary and secondary	AC	4000	No	
Transformer (ST801): primary and secondary	AC	4000	No	
Transformer (ST801): secondary and core	AC	4000	No	
Transformer (ST801): one layer of insulation tape	AC	4000	No	
Photo coupler	AC	4000	No	
Routine Tests:				
--	--	--	--	

IEC 62368-1				
Clause	Requirement + Test		Result - Remark	Verdict
5.4.9	TABLE: Electric strength tests			P
Test voltage applied between:		Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Supplementary information: 1. By applying an d.c. voltage in one polarity and then repeat it in reverse polarity. 2. Triple insulated wire used in secondary side, core of transformer (ST801) considered as primary. 3. See supplementary information of appended table 5.4.4.9. 4. All testing including after Humidity required of clause 5.4.8, there are including unit, transformer and material of transformer, see appended table 4.1.2.				

5.5.2.2	TABLE: Stored discharge on capacitors					P
Supply Voltage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification	
264, 60	Phase to Neutral	N	--	8.33	ES1	
264, 60	Phase to Neutral	S (SR801 open)	--	29.17	ES1	
264, 60	Phase to Neutral	S (SR803 open)	--	25.0	ES1	

Supplementary information:

X-capacitors installed for testing are: SC803 = 0.33μF

☒ bleeding resistor rating: 1) SR801=SR802=SR803=SR804=1MΩ

☐ 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				P
Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)	
AC inlet earth pin to Metal enclosure	32	2	0.120	0.003	
AC inlet earth pin to Metal enclosure	40	2	0.128	0.004	
Trace (earth screw) to SC808 / SC807 earth	32	2	0.128	0.004	

IEC 62368-1				
Clause	Requirement + Test		Result - Remark	Verdict
5.6.6.2	TABLE: Resistance of protective conductors and terminations			P
Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (Ω)
Trace (earth screw) to SC808 / SC807 earth	40	2	0.20	0.005
Supplementary information:				

5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive part		P
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)
Line to earth, Neutral to earth		1	Max. 0.14
		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.			

6.2.2	Table: Electrical power sources (PS) measurements for classification				N/A
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s ^{*)}	PS Classification
A		Power (W) :			
		V _A (V) :			
		I _A (A) :			
B		Power (W) :			
		V _A (V) :			
		I _A (A) :			
C		Power (W) :			

IEC 62368-1					
Clause	Requirement + Test		Result - Remark		Verdict
D		V _A (V) :			
		I _A (A) :			
		Power (W) :			
		V _A (V) :			
		I _A (A) :			
Supplementary Information: (*) Measurement taken only when limits at 3 seconds exceed PS1 limits All circuits within the equipment are considered as PS3. For all output of power board see appended table Q.1.					

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 × 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. All components in the equipment are considered as arcing PIS.					

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 × IA) is used to determine Resistive PIS classification. A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, <u>or</u> (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_	

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

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	
HDMI Mode								
90/50	1.09	--	58.8	--	SF801, SF802	1.09	Maximum Normal Load.	
90/60	1.07	--	58.6	--	SF801, SF802	1.07	Maximum Normal Load.	
100/50	1.00	0.95	58.0	--	SF801, SF802	1.00	Maximum Normal Load.	
100/60	0.97	0.95	57.9	--	SF801, SF802	0.97	Maximum Normal Load.	
240/50	0.49	0.48	55.7	--	SF801, SF802	0.49	Maximum Normal Load.	
240/60	0.48	0.48	55.5	--	SF801, SF802	0.48	Maximum Normal Load.	
264/50	0.45	--	55.6	--	SF801, SF802	0.45	Maximum Normal Load.	
264/60	0.44	--	55.5	--	SF801, SF802	0.44	Maximum Normal Load.	
Display Mode								

IEC 62368-1							
Clause	Requirement + Test			Result - Remark			Verdict
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
90/50	1.09	--	58.8	--	SF801, SF802	1.09	Maximum Normal Load.
90/60	1.07	--	58.5	--	SF801, SF802	1.07	Maximum Normal Load.
100/50	0.99	0.95	58.0	--	SF801, SF802	0.99	Maximum Normal Load.
100/60	0.98	0.95	57.6	--	SF801, SF802	0.98	Maximum Normal Load.
240/50	0.48	0.48	55.6	--	SF801, SF802	0.48	Maximum Normal Load.
240/60	0.48	0.48	55.3	--	SF801, SF802	0.48	Maximum Normal Load.
264/50	0.45	--	55.5	--	SF801, SF802	0.45	Maximum Normal Load.
264/60	0.44	--	55.2	--	SF801, SF802	0.44	Maximum Normal Load.
VGA Mode							
90/50	1.09	--	58.4	--	SF801, SF802	1.09	Maximum Normal Load.
90/60	1.07	--	58.2	--	SF801, SF802	1.07	Maximum Normal Load.
100/50	0.99	0.95	57.7	--	SF801, SF802	0.99	Maximum Normal Load.
100/60	0.97	0.95	57.4	--	SF801, SF802	0.97	Maximum Normal Load.
240/50	0.48	0.48	55.4	--	SF801, SF802	0.48	Maximum Normal Load.
240/60	0.48	0.48	55.2	--	SF801, SF802	0.48	Maximum Normal Load.
264/50	0.45	--	55.3	--	SF801, SF802	0.45	Maximum Normal Load.
264/60	0.44	--	55.2	--	SF801, SF802	0.44	Maximum Normal Load.
DVI Mode							

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

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	
90/50	1.09	--	58.8	--	SF801, SF802	1.09	Maximum Normal Load.	
90/60	1.07	--	58.6	--	SF801, SF802	1.07	Maximum Normal Load.	
100/50	1.00	0.95	57.9	--	SF801, SF802	1.00	Maximum Normal Load.	
100/60	0.97	0.95	57.8	--	SF801, SF802	0.97	Maximum Normal Load.	
240/50	0.49	0.48	55.4	--	SF801, SF802	0.49	Maximum Normal Load.	
240/60	0.48	0.48	55.3	--	SF801, SF802	0.48	Maximum Normal Load.	
264/50	0.45	--	55.5	--	SF801, SF802	0.45	Maximum Normal Load.	
264/60	0.44	--	55.3	--	SF801, SF802	0.44	Maximum Normal Load.	

Supplementary information:

Maximum Normal load condition for this equipment is to operate at maximum backlight, brightness and contrast of LED backlight, and adjust to max. volume of speakers with 1KHz sine waveform, 5V/0.9A for USB3.0 port.

B.3	TABLE: Abnormal operating condition tests							P
Ambient temperature (°C)					40 °C, Max. operated temp.			—
Power source for EUT: Manufacturer, model/type, output rating ..					--			—
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation
ST801 Pin 7,8 (after D851, D852)	Overload	240	2.95hrs	SF801, SF802	0.58	--	ST801 coil=57.4 °C Ambient= 20.7°C	Temperature is stabled at output overload condition 0.6 A, then unit shutdown when increase to 1.0 A. No damage, NB, NC, NT, ASRE. TV: 0Vdc

IEC 62368-1								
Clause	Requirement + Test				Result - Remark			Verdict
B.3	TABLE: Abnormal operating condition tests							P
Ambient temperature (°C)					40 °C, Max. operated temp.			—
Power source for EUT: Manufacturer, model/type, output rating ..					--			—
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation
Openings	Blocked	240	1.24hrs	SF801, SF802	0.49	--	See appended table 5.4.1.4, 6.3.2, 9.0, B.2.6 for temperature measurements.	Unit normal operation, NB, NC, NT, ASRE. TV: +16V:16.4Vdc, +54V: 53.14Vdc
16V1 output	short	240	10 min	SF801, SF802	0.03	--	--	Unit shutdown, no damage, NB, NC, NT, TV: 0Vdc ASRE.
Vled output	short	240	10 min	SF801, SF802	0.03	--	--	Unit shutdown, no damage, NB, NC, NT, TV: 0Vdc ASRE.
USB port (CN7005)	overload	240	1.5hr	SF801, SF802	0.53	--	PCB near U7744 =52.6 °C, Ambient= 40.0 °C	Temperature is stabled at USB output overload condition 1.3 A, then USB no output when increase to 1.4 A. No damage, NB, NC, NT, ASRE.
USB port (CN7004)	overload	240	3.5hr	SF801, SF802	0.53	--	PCB near U704 =52.3 °C, Ambient= 40.0 °C	Temperature is stabled at USB output overload condition 1.3 A, then USB no output when increase to 1.4 A. No damage, NB, NC, NT, ASRE.

IEC 62368-1								
Clause	Requirement + Test				Result - Remark			Verdict
B.3	TABLE: Abnormal operating condition tests							P
Ambient temperature (°C)					40 °C, Max. operated temp.			—
Power source for EUT: Manufacturer, model/type, output rating ..					--			—
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation
Supplementary information: 1) 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. 2) Results Key: IP = Internal protection operated (Component indicated); CT = Constant temperatures were obtained; TW = Transformer winding opened; CD = Components damaged (damaged components indicated); NB = No indication of dielectric breakdown; YB = Dielectric breakdown (time and location indicated); NC = Cheesecloth remained intact; YC = Cheesecloth charred or flamed; NT = Tissue paper remained intact; YT = Tissue paper charred or flamed. TV = Touch voltage measured; ASRE = All safeguards remained effectively.								

B.4	TABLE: Fault condition tests							P
Ambient temperature (°C)					25 °C, if nothing else specified.			—
Power source for EUT: Manufacturer, model/type, output rating ..					--			—
Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation
SBD801 Pin 1-4	Short	240Vac	1Sec	SF801, SF802	--	--	--	SF801, SF802 opened immediately, no other components damaged, NB, NC, NT, ASRE.
U801 Pin 2-8	Short	240Vac	10mins	SF801, SF802	0.03	--	--	Unit shutdown, U801, R806 damage, NB, NC, NT, ASRE.
SC806	Short	240Vac	1Sec	SF801, SF802	--	--	--	SF801, SF802 opened immediately, no other components damaged, NB, NC, NT, ASRE.
SQ801 Pin G-S	Short	240Vac	10mins	SF801, SF802	0.03	--	--	Unit shutdown, no damage, NB, NC, NT, ASRE.

IEC 62368-1								
Clause	Requirement + Test				Result - Remark			Verdict
SQ801 Pin D-S	Short	240Vac	1Sec	SF801, SF802	--	--	--	SF801, SF802 opened immediately, no other components damaged, NB, NC, NT, ASRE.
SQ801 Pin G-D	Short	240Vac	1Sec	SF801, SF802	--	--	--	SF801, SF802 opened immediately, no other components damaged, NB, NC, NT, ASRE.
ST801 Pin 4-6	Short	240Vac	10mins	SF801, SF802	0.03	--	--	Unit shutdown, no damage, NB, NC, NT, ASRE.
ST801 Pin 1-3	Short	240Vac	10mins	SF801, SF802	0.07	--	--	Unit shutdown, no damage, NB, NC, NT, ASRE.
ST801 Pin 7,8- 11,12	Short	240Vac	10mins	SF801, SF802	0.03	--	--	Unit shutdown, no damage, NB, NC, NT, ASRE.
D851	Short	240Vac	10mins	SF801, SF802	0.03	--	--	Unit shutdown, no damage, NB, NC, NT, ASRE.
SU800 Pin 1-2	Short	240Vac	10mins	SF801, SF802	0.03	--	--	Unit shutdown, no damage, NB, NC, NT, ASRE.
SU800 Pin 3-4	Short	240Vac	10mins	SF801, SF802	0.03	--	--	Unit shutdown, no damage, NB, NC, NT, ASRE.
SU800 Pin1	Open	240Vac	10mins	SF801, SF802	0.03	--	--	Unit shutdown, no damage, NB, NC, NT, ASRE.
SR801	Short	240Vac	10mins	SF801, SF802	0.49	--	--	Unit normal operation, NB, NC, NT, ASRE. TV: +16V:16.4Vdc, +54V: 53.14Vdc
SR802	Short	240Vac	10mins	SF801, SF802	0.49	--	--	Unit normal operation, NB, NC, NT, ASRE. TV: +16V:16.4Vdc, +54V: 53.14Vdc

IEC 62368-1								
Clause	Requirement + Test				Result - Remark			Verdict
SR803	Short	240Vac	10mins	SF801, SF802	0.49	--	--	Unit normal operation, NB, NC, NT, ASRE. TV: +16V:16.4Vdc, +54V: 53.14Vdc
SR804	Short	240Vac	10mins	SF801, SF802	0.49	--	--	Unit normal operation, NB, NC, NT, ASRE. TV: +16V:16.4Vdc, +54V: 53.14Vdc
R911	Short	240Vac	10mins	SF801, SF802	0.49	--	--	Unit normal operation, NB, NC, NT, ASRE. TV: +16V:16.4Vdc, +54V: 53.14Vdc
R912	Short	240Vac	10mins	SF801, SF802	0.49	--	--	Unit normal operation, NB, NC, NT, ASRE. TV: +16V:16.4Vdc, +54V: 53.14Vdc
C911	Short	240Vac	10mins	SF801, SF802	0.49	--	--	Unit normal operation, NB, NC, NT, ASRE. TV: +16V:16.4Vdc, +54V: 53.14Vdc
C912	Short	240Vac	10mins	SF801, SF802	0.49	--	--	Unit normal operation, NB, NC, NT, ASRE. TV: +16V:16.4Vdc, +54V: 53.14Vdc
Supplementary information:								
1) Results Key: IP = Internal protection operated (Component indicated); CT = Constant temperatures were obtained; TW = Transformer winding opened; CD = Components damaged (damaged components indicated); NB = No indication of dielectric breakdown; YB = Dielectric breakdown (time and location indicated); NC = Cheesecloth remained intact; YC = Cheesecloth charred or flamed; NT = Tissue paper remained intact; YT = Tissue paper charred or flamed. TV = Touch voltage measured; ASRE = All safeguards remained effectively.								

IEC 62368-1										
Clause	Requirement + Test			Result - Remark				Verdict		
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:										
- Chemical leaks								Verdict		
- 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 No.	Test conditions	Measurements			Observation		
		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

IEC 62368-1						
Clause	Requirement + Test			Result - Remark		Verdict
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
According to table Q.1, for power board output (P802)						
Pin 1, 2, 3	Normal	16.40	2.0	8.0	31.94	100
SR854	Sc	0	--	8.0	--	100
DR805	Sc	0	--	8.0	--	100
Other pins	Normal	0	--	8.0	--	100
According to table Q.1, for USB connector (CN7004)						
Pin 1	Normal	5.09	1.3	8.0	6.04	100
U704 pin 1-5	Sc	5.09	5.5	8.0	19.69	100
Other pins	Normal	0	--	8.0	--	100
According to table Q.1, for USB connector (CN7005)						
Pin 1	Normal	5.09	1.3	8.0	6.02	100
U7744 pin 1-5	Sc	5.09	5.5	8.0	19.36	100
Pin 10	Normal	5.09	1.4	8.0	6.39	100
U7743 pin 1-5	Sc	5.09	5.5	8.0	19.75	100
Other pins	Normal	0	--	8.0	--	100
According to table Q.1, for USB connector (CN7701)						
Pin 1	Normal	1.20	0	8.0	0	100
Pin 3	Normal	1.17	0	8.0	0	100
Other pins	Normal	0	--	8.0	--	100
According to table Q.1, for USB connector (CN7702)						
Pin 1	Normal	1.20	0	8.0	0	100
Pin 3	Normal	1.17	0	8.0	0	100
Other pins	Normal	0	--	8.0	--	100
According to table Q.1, for DVI connector (CN105)						
Pin 2, 3	Normal	4.71	0	8.0	5.6	100
Pin 7, 8, 15, 16, 17, 18, 23, 24	Normal	3.32	0	8.0	6.83	100
Pin 9	Normal	3.44	0	8.0	6.83	100

IEC 62368-1						
Clause	Requirement + Test			Result - Remark		Verdict
Pin 10	Normal	3.13	0	8.0	6.83	100
Other pins	Normal	0	--	8.0	--	100
According to table Q.1, for VGA connector (CN102)						
Pin 5	Normal	2.70	0	8.0	0	100
Pin 12, 15	Normal	4.73	0	8.0	0	100
Other pins	Normal	0	--	8.0	--	100
According to table Q.1, for micro HDMI connector (CN501)						
Pin 1, 3, 4, 6, 9, 10, 12	Normal	3.32	0	8.0	0	100
Pin 11	Normal	2.23	0	8.0	0	100
Other pins	Normal	0	--	8.0	--	100
According to table Q.1, for Display connector (CN108)						
Pin 15	Normal	1.24	0	8.0	0	100
Pin 17	Normal	3.30	0	8.0	0	100
Other pins	Normal	0	--	8.0	--	100
According to table Q.1, for Line in connector (CN602)						
All pins	Normal	0	--	8.0	--	100
According to table Q.1, for Headphone connector (CN603)						
All pins	Normal	0	--	8.0	--	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	
All components	--	--	10 N	5	All safeguards remain effective.	
Enclosure / Top	Plastic	See appended table 4.1.2	250N	5	No cracking. All safeguards remain effective.	
Enclosure / Side	Plastic	See appended table 4.1.2	250N	5	No cracking. All safeguards remain effective.	
Enclosure / Bottom	Plastic	See appended table 4.1.2	250N	5	No cracking. All safeguards remain effective.	
Supplementary information:						

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

T.6, T.9	TABLE: Impact tests			P
Part/Location	Material	Thickness (mm)	Vertical distance (mm)	Observation
Enclosure / Rear	Plastic	See appended table 4.1.2	1300	No cracking. All safeguards remain effective.
Supplementary information:				

T.7	TABLE: Drop tests			N/A
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation
Supplementary information:				

T.8	TABLE: Stress relief test				P
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
unit	See appended table 4.1.2	See appended table 4.1.2	70	7	No cracking. All safeguards remain effective.
Supplementary information:					

List of test equipment used:

A completed list of used test equipment shall be provided in the Test Reports when a Manufacturer Testing Laboratory according to TMP/CTF stage 1 or WMT/CTF stage 2 procedure has been used.

Clause	Measurement / testing	Testing / measuring equipment / material used	Range used	Calibration date

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 62368-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES (Audio/video, information and communication technology equipment Part 1: Safety requirements)			
Differences according to: EN 62368-1:2014			
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)		N/A
1	NOTE Z1		N/A
4.Z1	Protective devices included as integral parts of the equipment or as parts of the building installation:	The equipment if for building-in and shall be evaluated for the final system.	N/A
	a) Included as parts of the equipment		N/A
	b) For components in series with the mains; by devices in the building installation		N/A
	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	No external circuit.	N/A
10.2.1	Additional requirements in 10.5.1	No such radiation provided.	N/A
10.5.1	RS1 compliance measurement conditions	See above.	N/A
10.6.2.1	EN 71-1:2011, 4.20 and methods and distances	See above.	N/A
10.Z1	Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz		N/A
G.7.1	NOTE Z1	No power supply cord provided.	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	The equipment if for building-in and shall be evaluated for the final system.	N/A
4.7.3	United Kingdom: Torque test socket-outlet BS 1363, and the plug part BS 1363.	Not intended to plug directly into a wall socket-outlet.	N/A
5.2.2.2	Denmark: Warning for high touchcurrent	The touch current not exceeds the limits of 3.5mA a.c. or 10mA d.c..	N/A
5.4.11.1 and Annex G	Finland and Sweden: Separation of the telecommunication network from earth	No telephone ringing signal.	N/A

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
5.5.2.1	Norway: Capacitors rated for the applicable line-to-line voltage (230 V).	Class III equipment.	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.		P
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	No such external circuit provided.	N/A
5.7.6.2	Denmark: Warning for high touch current	No such external circuit provided.	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

IEC62368_1B - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
G.4.2	United Kingdom: The plug part of direct plug-in equipment assessed to BS 1363		N/A
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	No power supply cord provided.	N/A
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	No power supply cord provided.	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.	No power supply cord provided.	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.	No cathode ray tube.	N/A
F.1	Italy: The power consumption in Watts (W) indicated on TV receiver and in instruction for use	No such equipment.	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 TO TEST REPORT IEC 62368-1 2th Ed. U.S.A. NATIONAL DIFFERENCES Audio/video, information and communication technology equipment – Part 1: Safety requirements	
Differences according to.....:	CSA/UL 62368-1:2014
Attachment Form No.....:	US&CA_ND_IEC623681B
Attachment Originator	UL(US)
Master Attachment	Date 2015-06
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Clause	Requirement + Test	Result - Remark	Verdict
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IEC 62368-1 - US and Canadian National Differences Special National Conditions based on Regulations and Other National Differences			
1.1	All equipment is to be designed to allow installation according to the National Electrical Code (NEC), ANSI/NFPA 70, the Canadian Electrical Code (CEC), Part I, CAN/CSA C22.1, and when applicable, the National Electrical Safety Code, IEEE C2. Also, for such equipment marked or otherwise identified, installation is allowed per the Standard for the Protection of Information Technology Equipment, ANSI/NFPA 75.	Considered.	P
1.4	Additional requirements apply to some forms of power distribution equipment, including sub-assemblies.	Considered.	P
4.1.17	For lengths exceeding 3.05 m, external interconnecting flexible cord and cable assemblies are required to be a suitable cable type (e.g., DP, CL2) specified in the NEC.		N/A
	For lengths 3.05 m or less, external interconnecting flexible cord and cable assemblies that are not types specified in the NEC generally are required to have special construction features and identification markings.		P
4.8	Lithium coin / button cell batteries have modified special construction and performance requirements.		N/A
5.6.3	Protective earthing conductors comply with the minimum conductor sizes in Table G.5, except as required by Table G.7ADV.1 for cord connected equipment, or Annex DVH for permanently connected equipment		N/A
5.7.7	Equipment intended to receive telecommunication ringing signals complies with a special touch current measurement tests.		N/A
6.5.1	PS3 wiring outside a fire enclosure complies with single fault testing in B.4, or be current limited per one of the permitted methods.		N/A

Clause	Requirement + Test	Result - Remark	Verdict
Annex F (F.3.3.8)	Output terminals provided for supply of other equipment, except mains, supply are marked with a maximum rating or references to which equipment it is permitted to be connected.		N/A
Annex G (G.7.1)	Permanent connection of equipment to the mains supply by a power supply cord is not permitted, except for certain equipment, such as ATMs.		N/A
Annex G (G.7.3)	Power supply cords are required to have attachment plugs rated not less than 125 percent of the rated current of the equipment.	No power supply cord provided.	N/A
	Flexible power supply cords are required to be compatible with Article 400 of the NEC, and Tables 11 and 12 of the CEC.		N/A
Annex G (G.7.5)	Minimum cord length is required to be 1.5 m, with certain constructions such as external power supplies allowed to consider both input and output cord lengths into the requirement. Power supply cords are required to be no longer than 4.5 m in length if used in ITE Rooms.	No power supply cord provided.	N/A
Annex H.2	Continuous ringing signals under normal operating conditions up to 16 mA only are permitted if the equipment is subjected to special installation and performance restrictions.	No telephone ringing signal.	N/A
Annex H.4	For circuits with other than ringing signals and with voltages exceeding 42.4 V _{peak} or 60 V d.c., the maximum acceptable current through a 2000 ohm resistor (or greater) connected across the voltage source with other loads disconnected is 7.1 mA peak or 30 mA d.c. under normal operating conditions.	No telephone ringing signal.	N/A
Annex M	Battery packs for stationary applications comply with special component requirements.	No such parts.	N/A
Annex DVA (1)	Equipment intended for use in spaces used for environmental air are subjected to special flammability requirements for heat and visible smoke release.	No such equipment.	N/A
	For ITE room applications, automated information storage systems with combustible media greater than 0.76 m ³ (27 cu ft) have a provision for connection of either automatic sprinklers or a gaseous agent extinguishing system with an extended discharge.		N/A
	Consumer products designed or intended primarily for children 12 years of age or younger are subject to additional requirements in accordance with U.S. & Canadian Regulations.		N/A
	Baby monitors additionally comply with ASTM F2951, Consumer Safety Specification for Baby Monitors.		N/A
Annex DVA (5.6.3)	For Pluggable Equipment Type A, the protection in the installation is assumed to be 20A.		P

Clause	Requirement + Test	Result - Remark	Verdict
Annex DVA (6.3)	The maximum quantity of flammable liquid stored in equipment complies with NFPA 30.	No flammable liquid.	N/A
Annex DVA (6.4.8)	For ITE room applications, enclosures with combustible material measuring greater than 0.9 m ² (10 sq ft) or a single dimension greater than 1.8 m (6 ft) have a flame spread rating of 50 or less. For equipment with the same dimensions for other applications, an external surface that is not a fire enclosure requires a min. flammability classification of V-1.	The equipment has no combustible material greater than 0.9 m ² or single dimension greater than 1.8 m.	N/A
Annex DVA (10.3.1)	Equipment with lasers meets the U.S. Code of Federal Regulations 21 CFR 1040 (and the Canadian Radiation Emitting Devices Act, REDR C1370).	No lasers.	N/A
Annex DVA (10.5.1)	Equipment that produces ionizing radiation complies with the U.S. Code of Federal Regulations, 21 CFR 1020 (and the Canadian Radiation Emitting Devices Act, REDR C1370).	No x-radiation.	N/A
Annex DVA (F.3.3.3)	Equipment for use on a.c. mains supply systems with a neutral and more than one phase conductor (e.g. 120/240 V, 3-wire) require a special marking format for electrical ratings. Additional considerations apply for voltage ratings that exceed the attachment cap rating or are lower than the "Normal Operating Condition" in Table 2 of CAN/CSA C22.2 No. 235."		N/A
Annex DVA (F.3.3.5)	Equipment identified for ITE (computer) room installation is marked with the rated current		N/A
Annex DVA (G.1)	Vertically-mounted disconnect switches and circuit breakers have the "on" position indicated by the handle in the up position	No switch.	N/A
Annex DVA (G.3.4)	Suitable NEC/CEC branch circuit protection rated at the maximum circuit rating is required for all standard supply outlets and receptacles (such as supplied in power distribution units) if the supply branch circuit protection is not suitable.	No such components used.	N/A
Annex DVA (G.4.2)	Equipment with isolated ground (earthing) receptacles complies with NEC 250.146(D) and CEC 10-112 and 10-906(8).		N/A
Annex DVA (G.4.3)	Where a fuse is used to provide Class 2 or Class 3 current limiting, it is not operator-accessible unless it is non- interchangeable.		N/A
Annex DVA (G.5.3)	Power distribution transformers distributing power at 100 volts or more, and rated 10 kVA or more, require special transformer overcurrent protection.		N/A
Annex DVA (G.5.4)	Motor control devices are required for cord-connected equipment with a mains-connected motor if the equipment is rated more than 12 A, or if the equipment has a nominal voltage rating greater than 120 V, or if the motor is rated more than 1/3 hp (locked rotor current over 43 A).		N/A

Clause	Requirement + Test	Result - Remark	Verdict
Annex DVA (Annex M)	For ITE room applications, equipment with battery systems capable of supplying 750 VA for five minutes have a battery disconnect means that may be connected to the ITE room remote power-off circuit.	No such battery system used.	N/A
Annex DVA (Q)	Wiring terminals intended to supply Class 2 outputs according to the NEC or CEC Part 1 are marked with the voltage rating and "Class 2" or equivalent; marking is located adjacent to the terminals and visible during wiring.		N/A
Annex DVB (1)	Additional requirements apply for equipment used for entertainment purposes intended for installation in general patient care areas of health care facilities.	No such equipment.	N/A
Annex DVC (1)	Additional requirements apply for equipment intended for mounting under kitchen cabinets.	No such equipment.	N/A
Annex DVE (4.1.1)	Some equipment, components, sub-assemblies and materials associated with the risk of fire, electric shock, or personal injury have component or material ratings in accordance with the applicable national (U.S. and Canadian) component or material requirements. Components required to comply include: appliance couplers, attachment plugs, battery back-up systems, battery packs, circuit breakers, communication circuit accessories, connectors (used for current interruption of non-LPS circuits), power supply cords, direct plug-in equipment, electrochemical capacitor modules (energy storage modules with ultra-capacitors), enclosures (outdoor), flexible cords and cables, fuses (branch circuit), ground-fault current interrupters, interconnecting cables, data storage equipment, printed wiring, protectors for communications circuits, receptacles, surge protective devices, vehicle battery adapters, wire connectors, and wire and cables.	All components identified are either comply with IEC standards or relevant requirements of CSA and UL component standards.	P
Annex DVH	Equipment for permanent connection to the mains supply is subjected to additional requirements.		N/A
Annex DVH (DVH.1)	Wiring methods (terminals, leads, etc.) used for the connection of the equipment to the mains are in accordance with the NEC/CEC.		N/A
Annex DVH (DVH.3.2)	Terminals for permanent wiring, including protective earthing terminals, are suitable for U.S./Canadian wire gauge sizes, rated 125 percent of the equipment rating, and are specially marked when specified.	No such terminals.	N/A
Annex DVH (DVH.3.2)	Wire binding screws are not permitted to attach conductors larger than 10 AWG (5.3 mm ²).	No wire binding screws.	N/A
Annex DVH (DVH.4)	Permanently connected equipment is required to have a suitable wiring compartment and wire bending space.	Not permanently connected equipment.	N/A

Clause	Requirement + Test	Result - Remark	Verdict
Annex DVH (DVH 5.5)	Equipment connected to a centralized d.c. power system, and having one pole of the DC mains input terminal connected to the main protective earthing terminal in the equipment, complies with special earthing, wiring, marking and installation instruction requirements.	Not for connection to a DC mains supply.	N/A
Annex DVI (6.7)	Equipment intended for connection to telecommunication network outside plant cable is required to be protected against overvoltage from power line crosses.	No telephone ringing signal.	N/A
Annex DVJ (10.6.1)	Equipment connected to a telecommunication and cable distribution networks and supplied with an earphone intended to be held against, or in the ear is required to comply with special acoustic pressure requirements.	No telephone ringing signal.	N/A

Enclosure

Type	Supplement ID	Description
Photographs	3-01	Overall front view
Photographs	3-02	Overall rear view
Photographs	3-03	Connector side view-1
Photographs	3-04	Connector side view-2
Photographs	3-05	Internal view -1
Photographs	3-06	Internal view -2
Photographs	3-07	Top view of power board
Photographs	3-08	Bottom view of power board
Photographs	3-09	Top view of main board
Photographs	3-10	Bottom view of main board
Photographs	3-11	Metal enclosure view -1
Photographs	3-12	Metal enclosure view -2
Photographs	3-13	stand base
Diagrams	4-01	Front bezel dimension
Diagrams	4-02	Rear enclosure dimension
Diagrams	4-03	Metal enclosure dimension
Miscellaneous	6-01	Additional Table

Photographs 3-01



Photographs 3-02



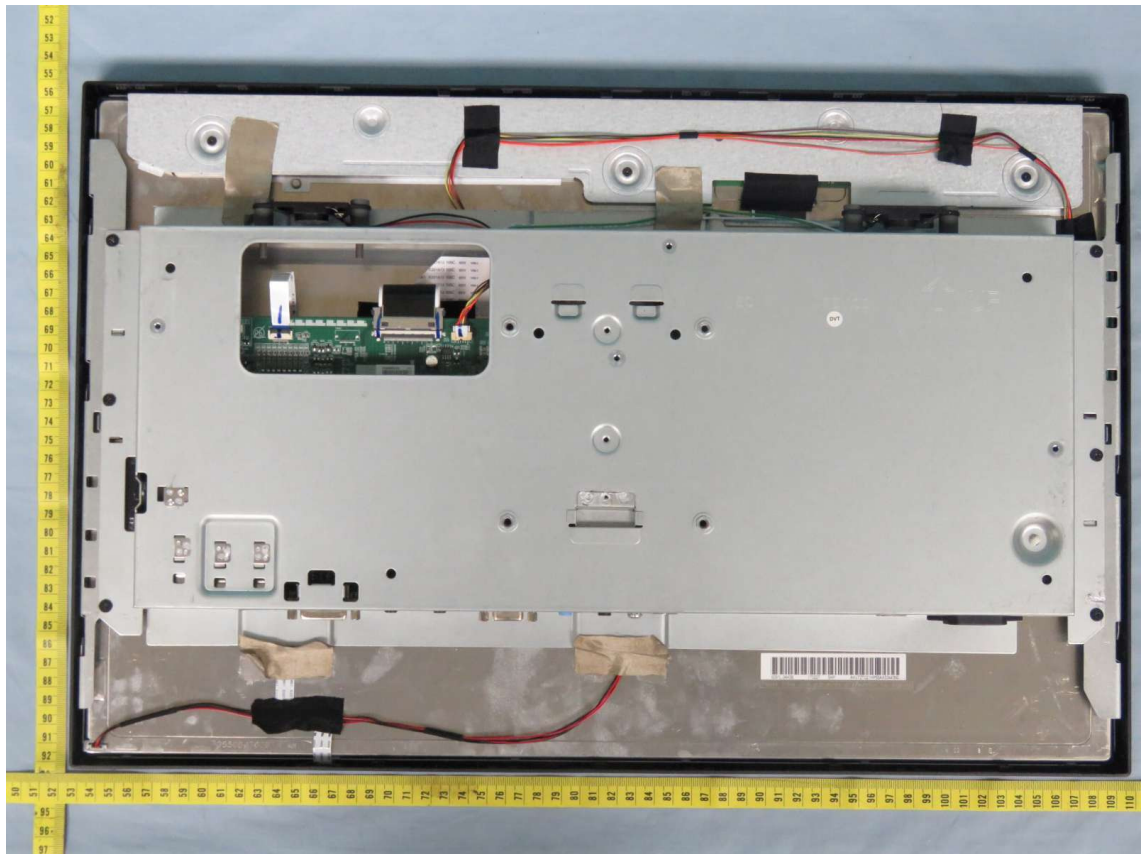
Photographs 3-03



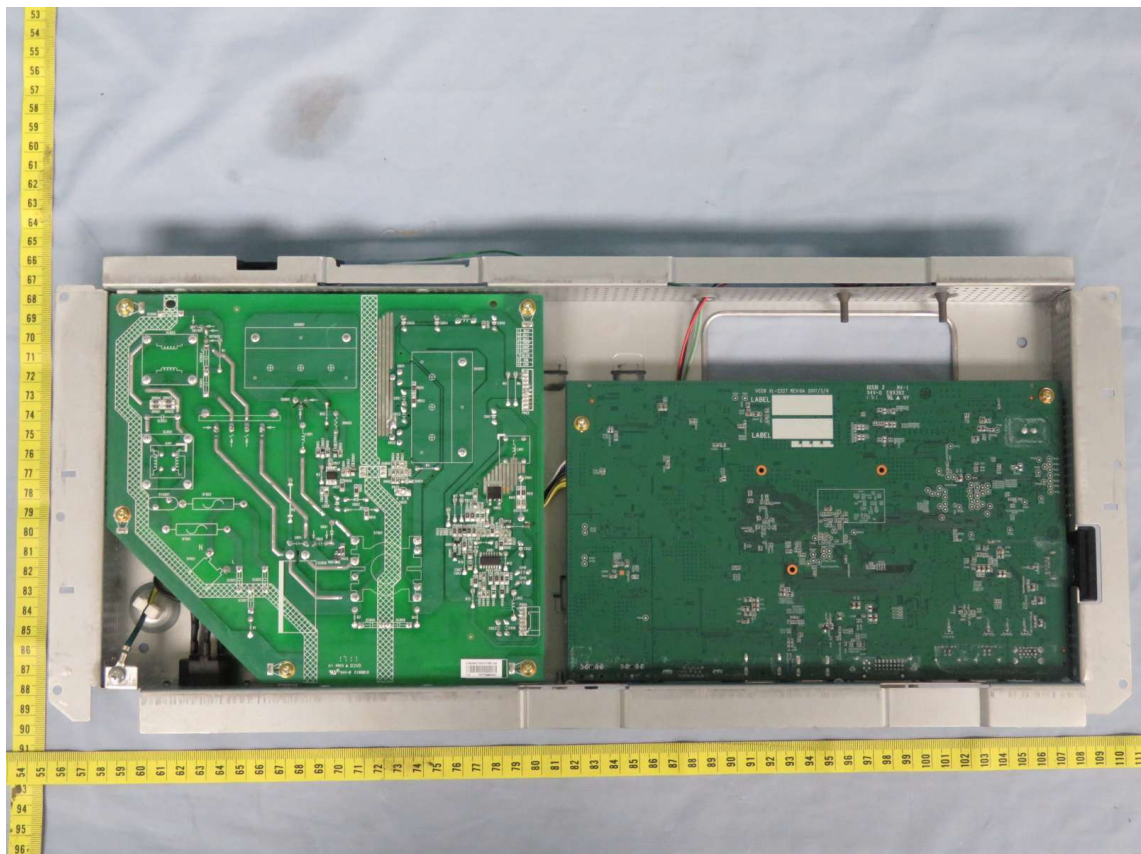
Photographs 3-04



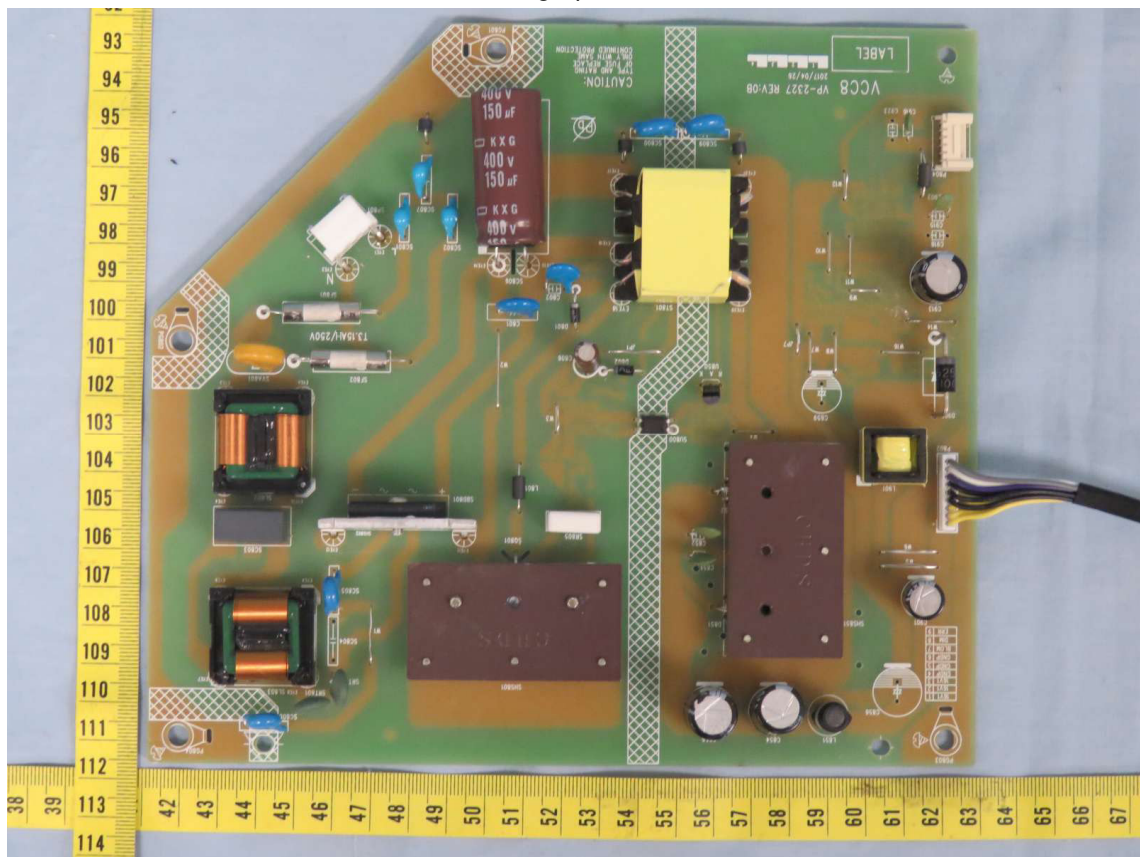
Photographs 3-05



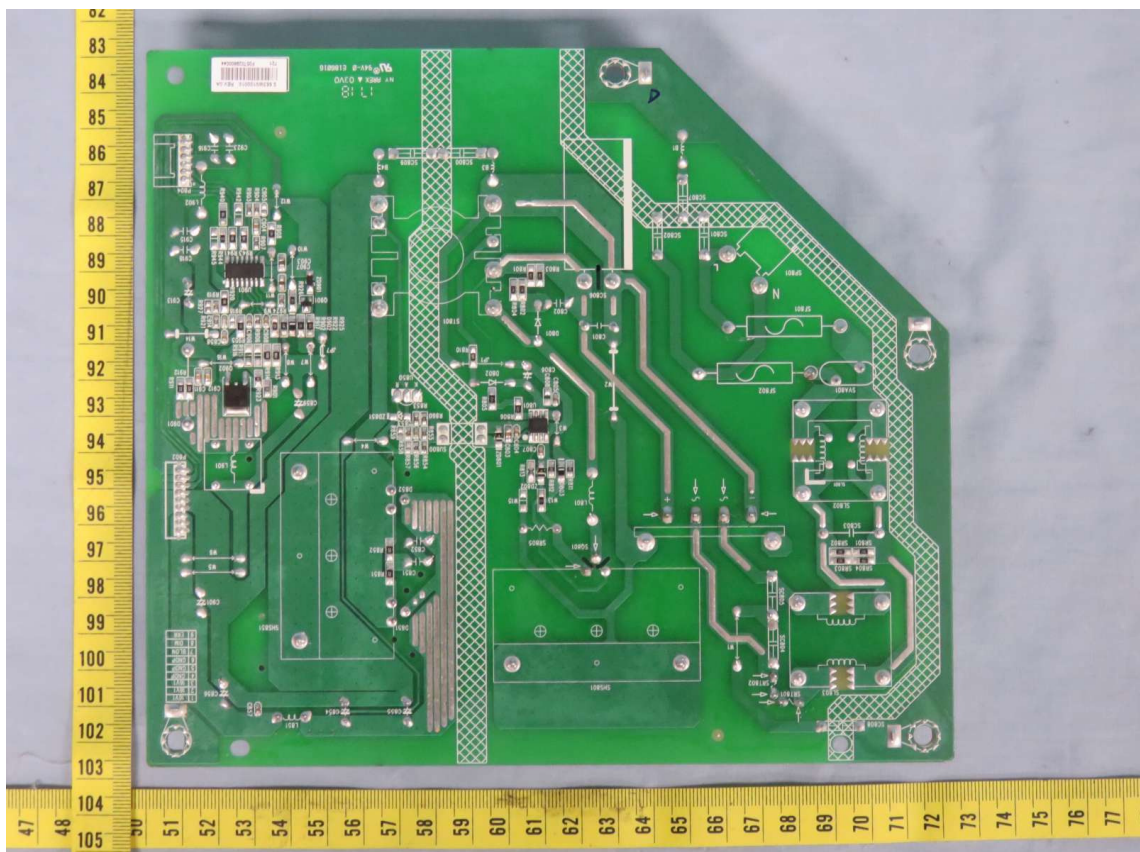
Photographs 3-06



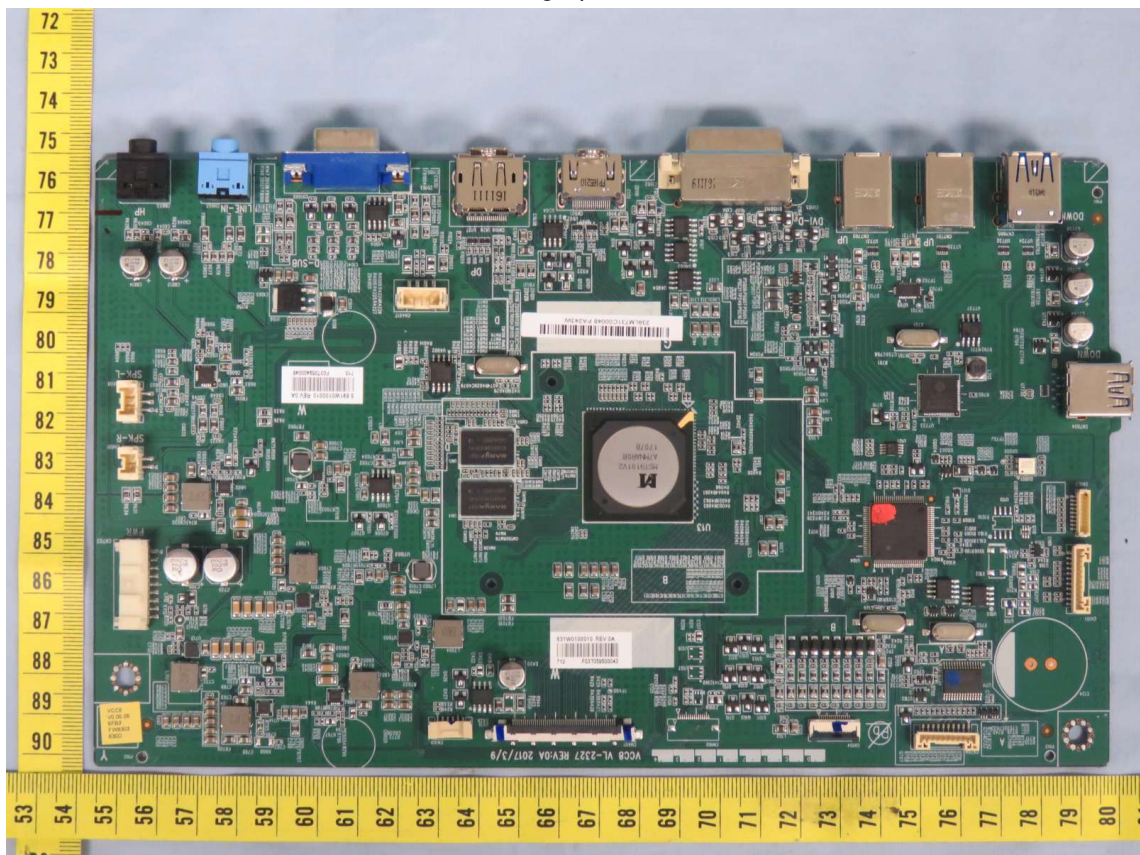
Photographs 3-07



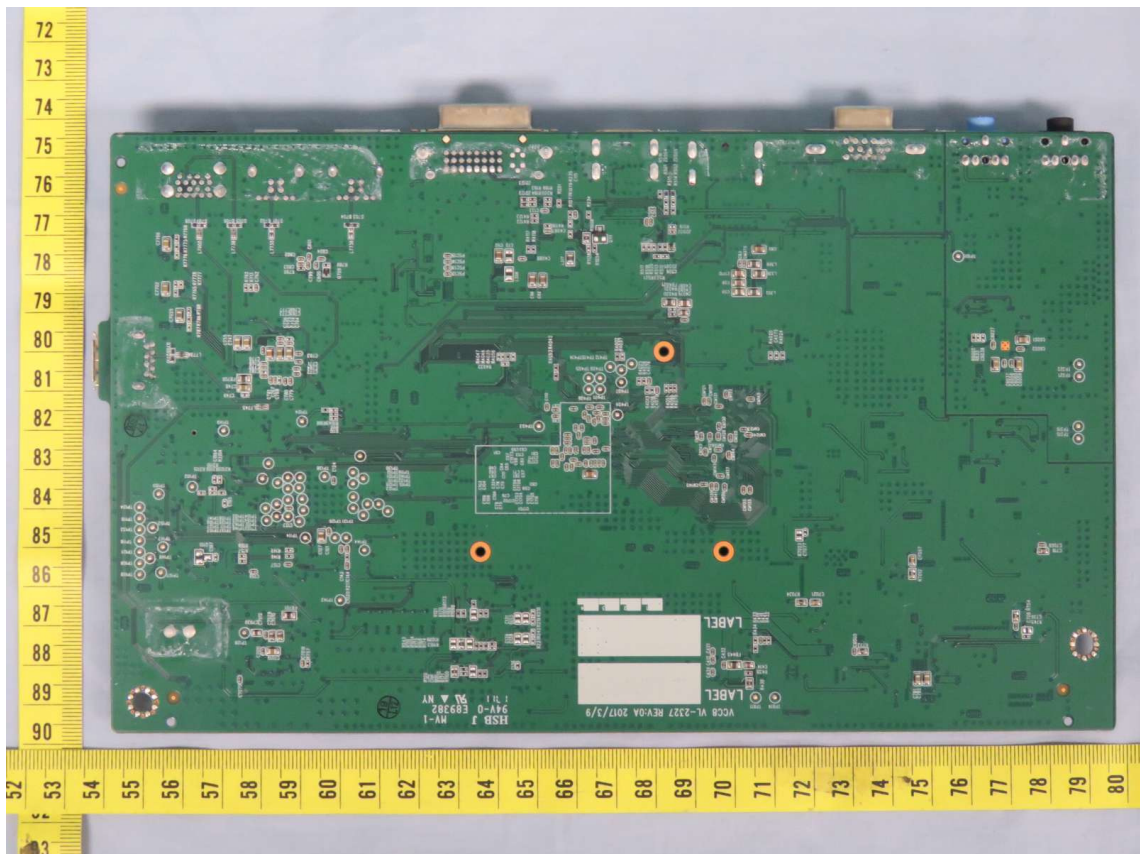
Photographs 3-08



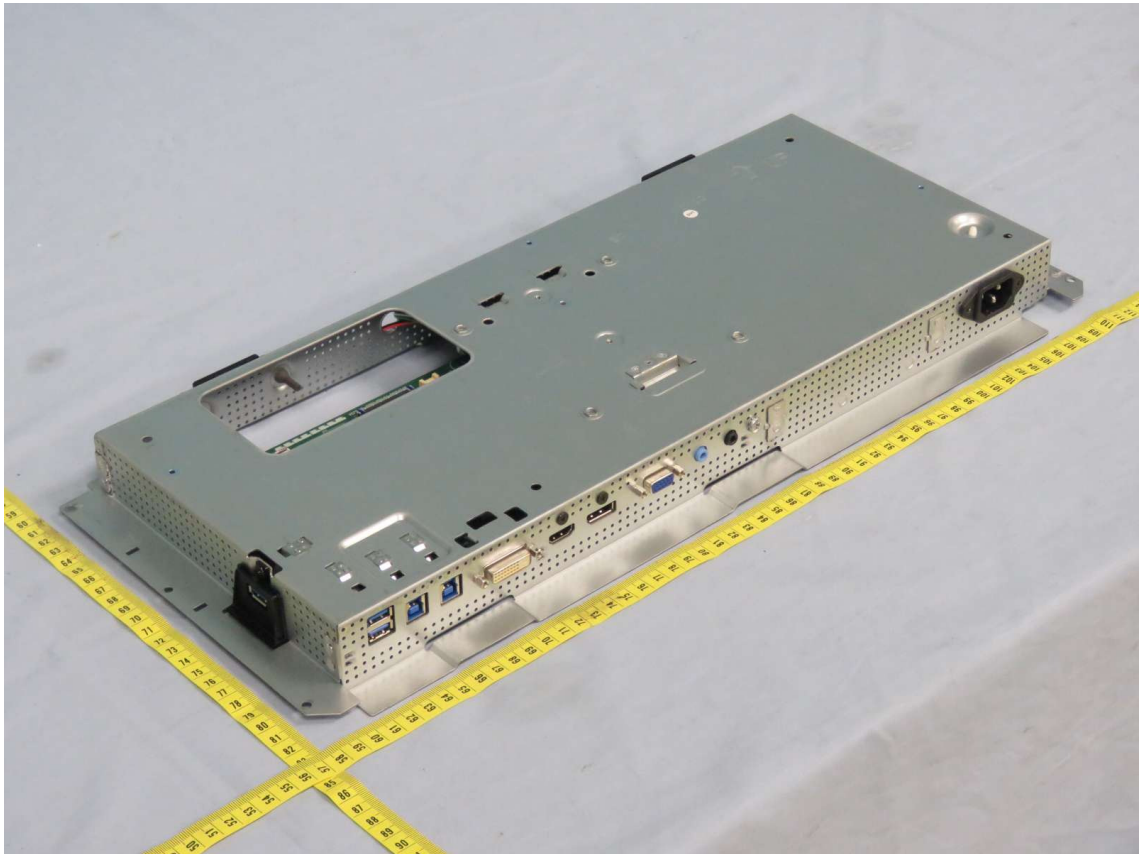
Photographs 3-09



Photographs 3-10



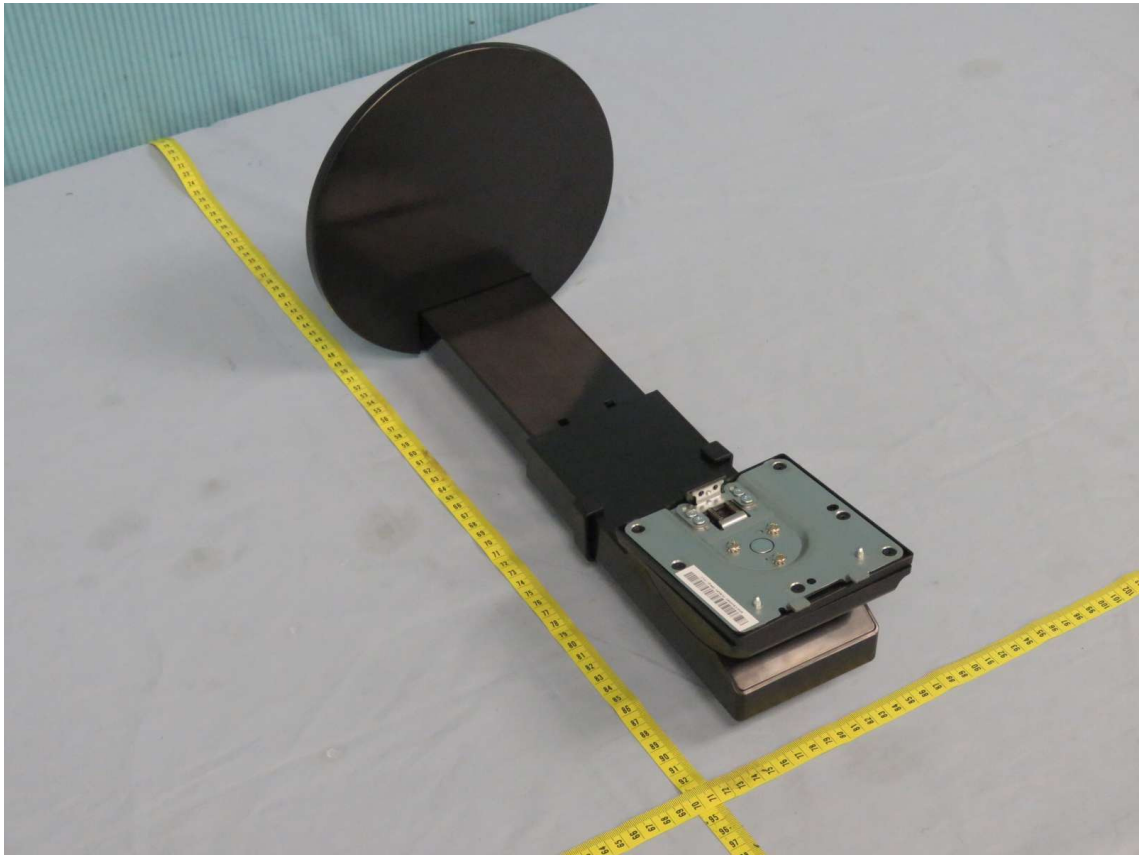
Photographs 3-11



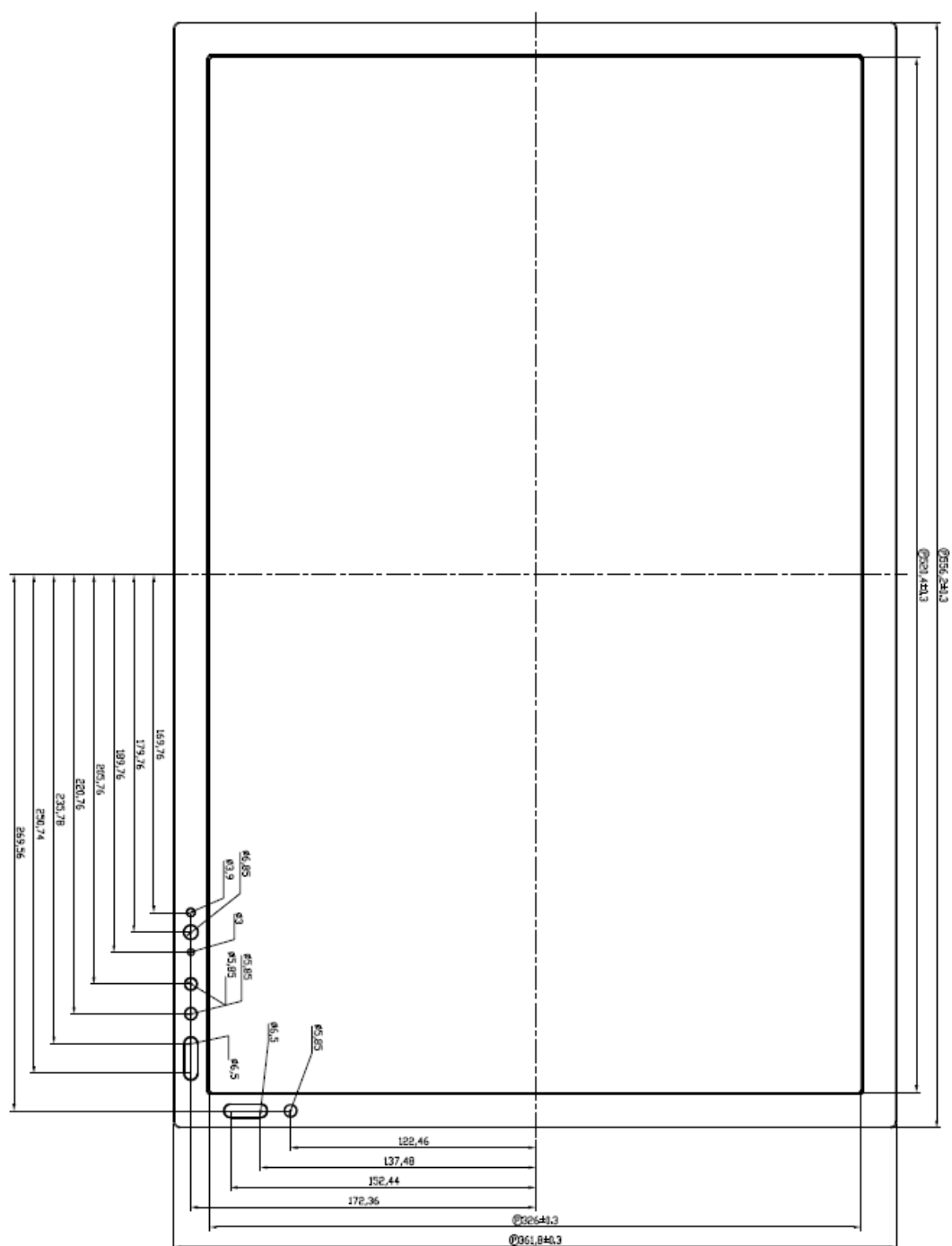
Photographs 3-12



Photographs 3-13

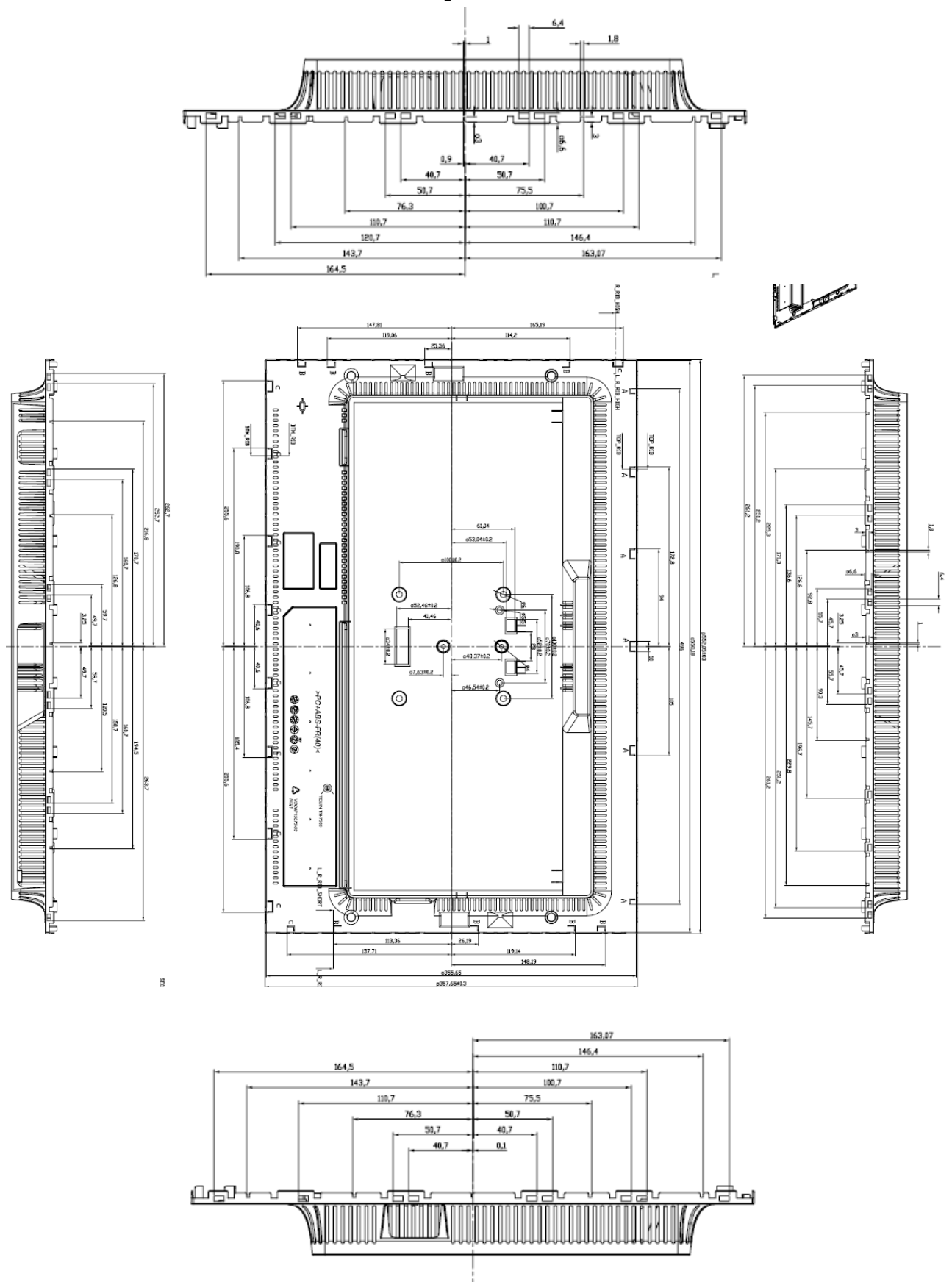


Diagrams 4-01

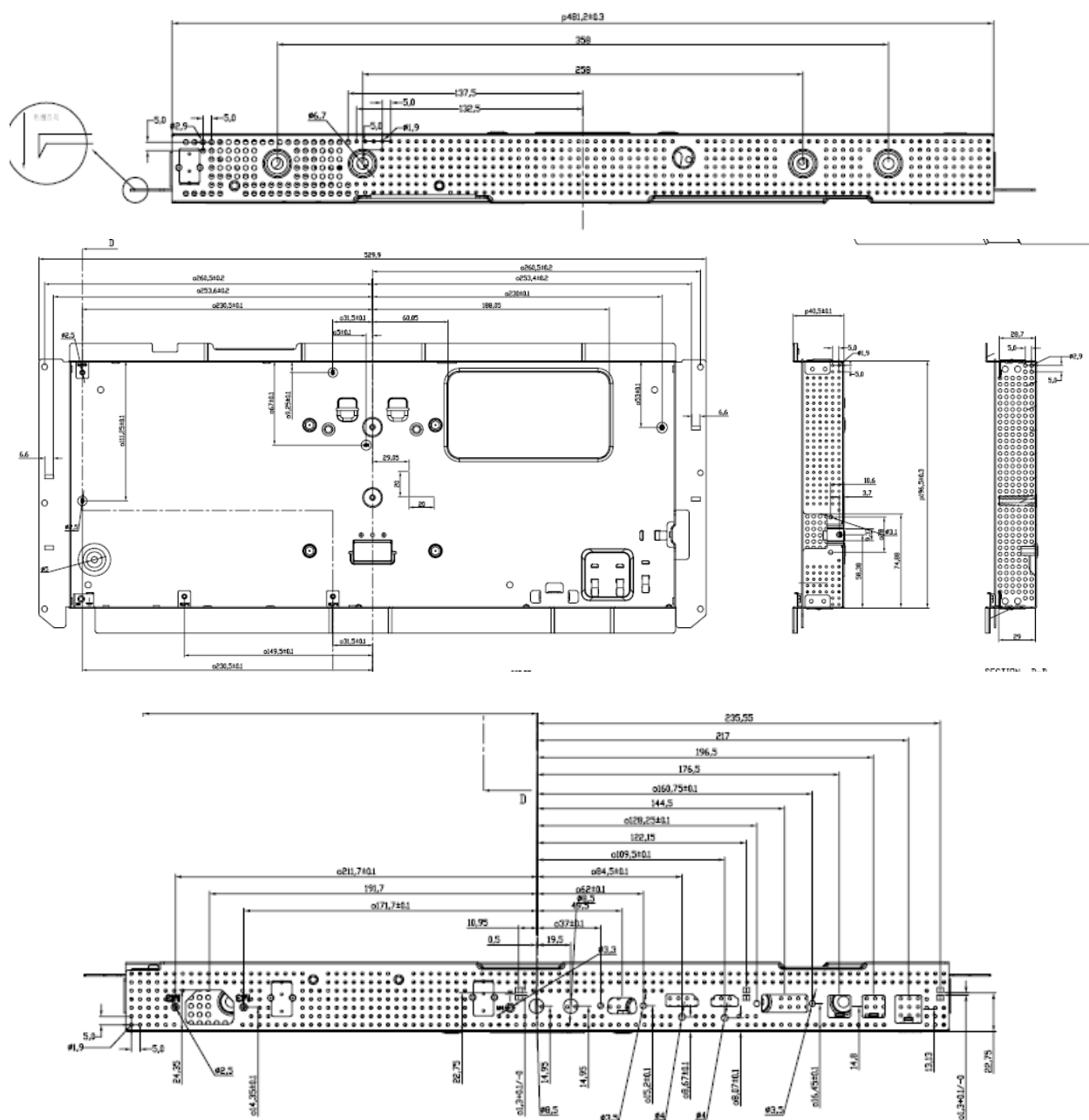


[illegible]

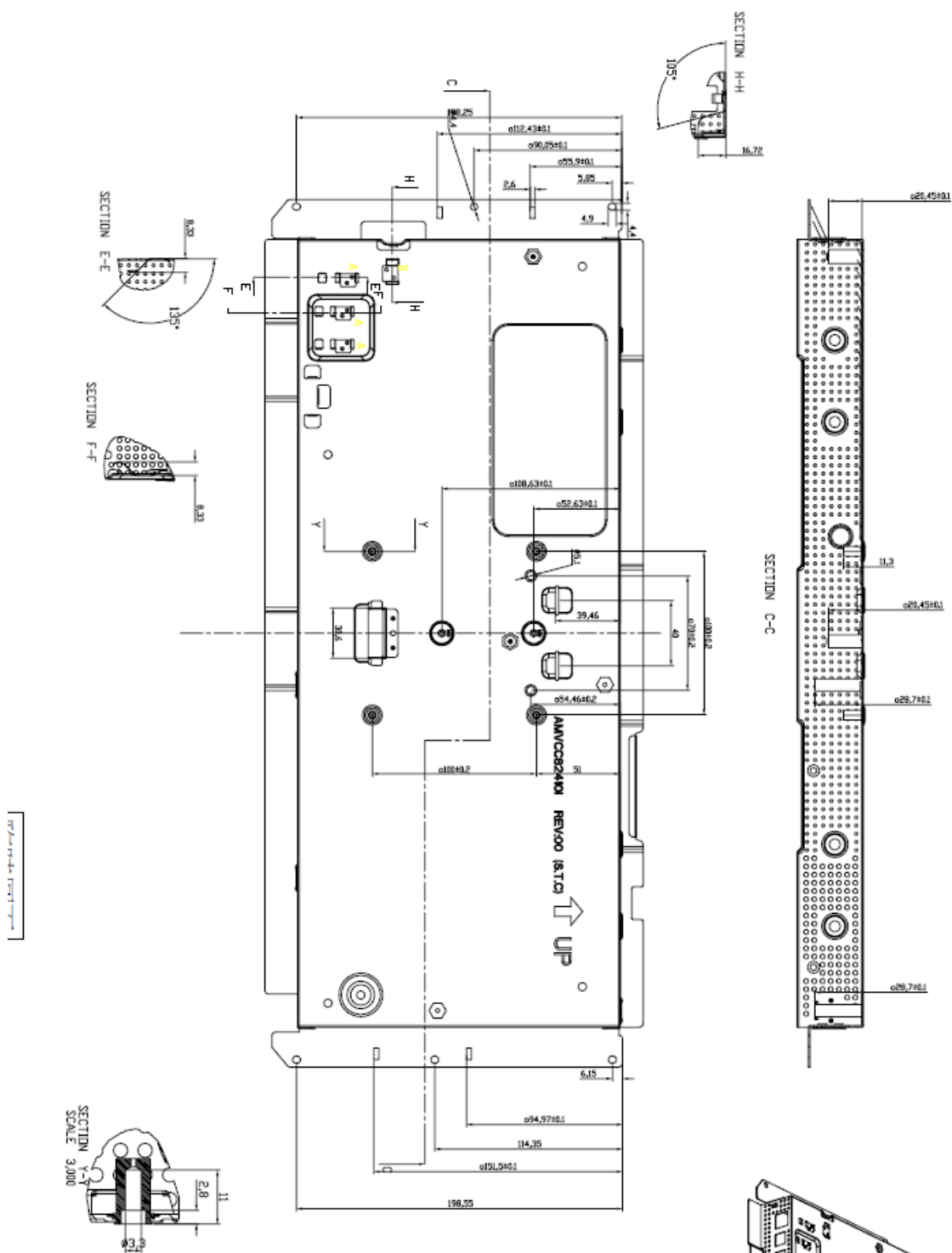
Diagrams 4-02



Diagrams 4-03



Diagrams 4-03



Miscellaneous 6-01

5.4.1.8	TABLE: Determination of working voltage			P
Test voltage / Frequency.....:		240Vac / 60Hz		
Location	Measured voltage/frequency			Comments
	RMS voltage (V)	Peak Voltage (V)	Hz	
ST801 Pin 1 - 7,8	221	380	--	
ST801 Pin 1 - 11,12	218	348	--	
ST801 Pin 3 - 7,8	218	372	--	
ST801 Pin 3 - 11,12	220	404	--	
ST801 Pin 4 - 7,8	221	428	--	
ST801 Pin 4 - 11,12	218	352	--	
ST801 Pin 6 - 7,8	261	552	--	
ST801 Pin 6 - 11,12	279	584	48K	Maximum voltage for ST801
SU800 Pin 1 - 3	229	360		
SU800 Pin 1 - 4	227	356	--	
SU800 Pin 2 - 3	227	360	--	
SU800 Pin 2 - 4	227	356	--	
SC800 Primary – SC809 Secondary	218	346	--	
SC805 Primary – SC808 Secondary	2.85	26.0	--	
Supplementary information:				

G.5.3.2		TABLE: transformers						P
Loc.	Tested insulation	Working voltage peak / V (5.4.1.8)	Working voltage rms / V (5.4.1.8)	Required electric strength (5.4.9)	Required clearance / mm (5.4.2)	Required creepage distance / mm (5.4.3)	Required distance thr. insul. (5.4.4)	
ST801	Primary / input winding and secondary / output winding (internal)	584	279	AC 3000	4.5	5.6	Min. 2 layers or min. 0.4 mm thickness	
ST801	Primary / input winding and core (internal)	--	--	--	--	--	--	
ST801	Secondary / output winding and core (internal)	584	279	AC 3000	4.5	5.6	Min. 2 layers or min. 0.4 mm thickness	
ST801	Primary / input part and secondary / output part (external)	584	279	AC 3000	4.5	5.6	Min. 2 layers or min. 0.4 mm thickness	
ST801	Primary / input part and secondary / output winding (external)	584	279	AC 3000	4.5	5.6	Min. 2 layers or min. 0.4 mm thickness	
ST801	Primary / input part and core (external)	--	--	--	--	--	--	
ST801	Secondary / output part and core (external)	584	279	AC 3000	4.5	5.6	Min. 2 layers or min. 0.4 mm thickness	
ST801	Secondary / output part and primary / input winding (external)	584	279	AC 3000	4.5	5.6	Min. 2 layers or min. 0.4 mm thickness	
Loc.	Tested insulation			Test voltage/ V	Measured clearance / mm	Measured creepage dist./ mm	Measured distance thr. insul. / mm; number of layers	

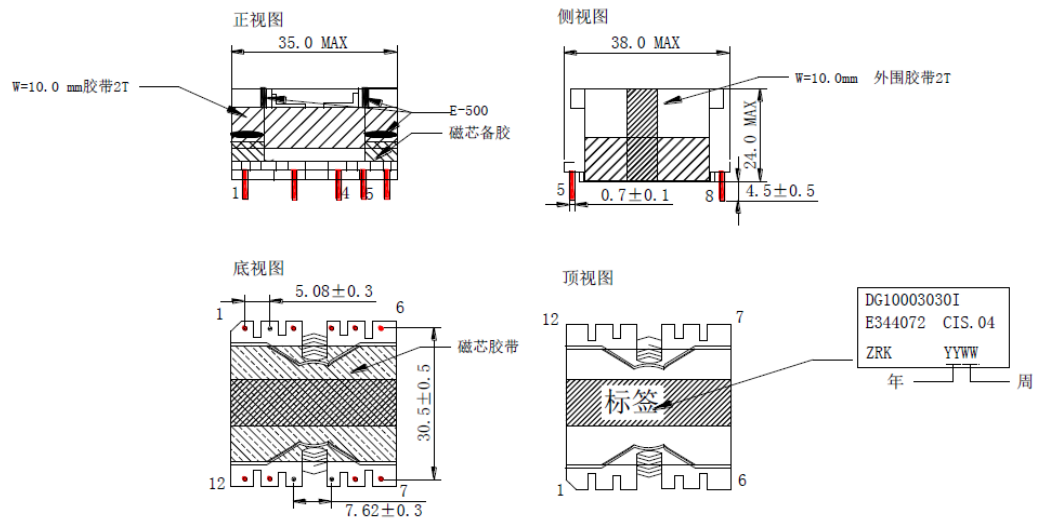
ST801	Primary / input winding and secondary / output winding (internal) (DI)	AC 3000	Triple insulation wire used	Triple insulation wire used	See below
ST801	Primary / input winding and core (internal)	--	--	--	--
ST801	Secondary / output winding and core (internal) (DI)	AC 3000	Triple insulation wire used	Triple insulation wire used	See below
ST801	Primary / input part and secondary / output part (external) (DI)	AC 3000	30.0	30.0	See below
ST801	Primary / input part and secondary / output winding (external) (DI)	AC 3000	Triple insulation wire used	Triple insulation wire used	See below
ST801	Primary / input part and core (external)	--	--	--	--
ST801	Secondary / output part and core (external) (DI)	AC 3000	8.5	8.5	See below
ST801	Secondary / output part and primary / input winding (external) (DI)	AC 3000	7.7	7.7	See below
supplementary information:					
The Clearances and Creepage Distances have additionally been assessed for suitability up to 5000 m elevation. The required clearance is multiplied by the altitude correction factor (1.48) as specified in Table A.2 of IEC 60664-1. Same construction for all source.					

G.5.3.2

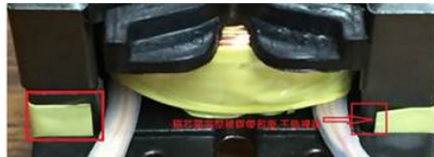
TABLE: transformers

P

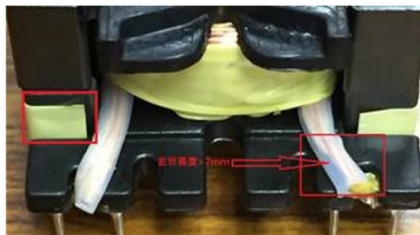
Concentric windings on bobbin (vertical type core). There are min. two layers of insulation type wrapped around the bottom core to keep enough reinforced insulation distances from sec. pin. There are min. one insulation tape between primary and secondary winding (triple insulation wire). There are min. 3 layers of insulation tape outside of transformer outer winding. The core is considered to be Primary. Tubing on the ends of all winding exit are provided. Detail see below.



- 注：1. 磁芯备胶用 CT280 W=32.0mm 2L 胶带包 1T
 2. 加强烘烤: 120° C 5 小时, 含浸後需符合 VOC 規範
 3. 磁芯不能裸露

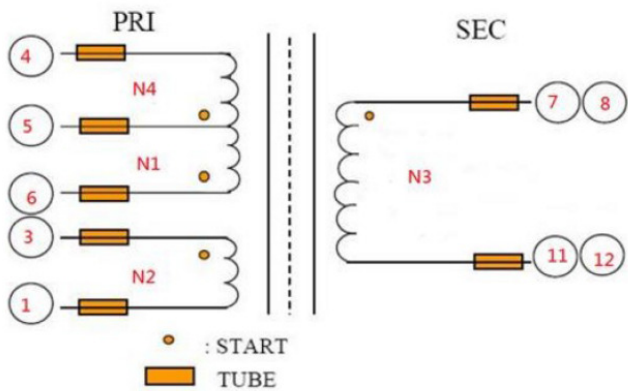


4. pin 腳到磁芯的套管長度要>7mm



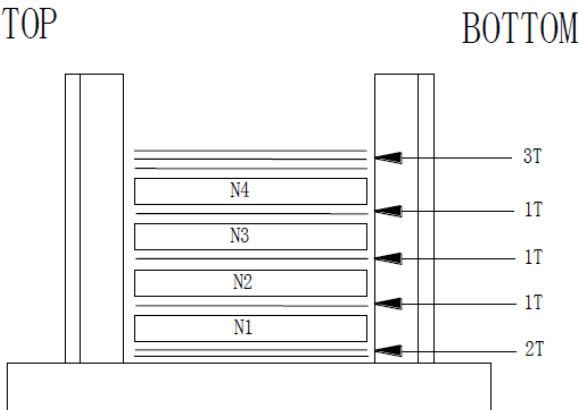
5. 单股线一绞线 2Ts MIN&吃锡 1.5Ts MIN

2.CONNECTION (BOTTOM) 端子連接圖



注: PIN2, PIN9, PIN10 CUT OFF

3. STRUCTURE 内部结构图



4.WINDING 绕线明细表

绕组	端子	线径	绕线圈数
N1	6-5	2UEW Φ 0.40*1P (CLOSED)	22Ts
N2	3-1	2UEW Φ 0.20*1P (SPREAD)	6Ts
N3	7,8-11,12	TIW-M Φ 0.35*6P (CLOSED)	6Ts
N4	5-4	2UEW Φ 0.40*1P (CLOSED)	18Ts

6.MATERIAL DETAILEDLIST: 材料清單

序號 NO.	材料名稱 NAME	規劃型號 MATERIAL	耐溫等級 RATING	UL 號碼 UL NO.	生產廠家 MANUFACTURER
1	磁芯 CORE	FERRITE CORE	NA	NA	KAIYUAN CO.,LTD YAO RUN ELECTRONIC CO.,LTD TDG HOLDING CO.,LTD
2	骨架 BOBBIN	PM-9820 (94V-0)	150℃	E41429	SUMIT OMO BAKELITE CO.,LTD
3	线材 WIRE	2UEW	130℃	E237377 E84081	JIANGSU DARTONG M&E CO.,LTD SHANGHAI PACIFIC CO.,LTD
		TIW-M	130℃	E213764	COSMOLINK CO.,LTD
4	套管 TUBE	TT-L	200℃	E254113	FUREDA PLASTIC CO LTD
5	绝缘胶带 MYLAR TAPE	CT	130℃	E165111	JING JIANG YAHUA ELECTRONIC TECHNOLOGY CO.,LTD
7	环氧树脂胶 EPOXY	H907-HF-Z E-500	130℃	NA	DONGGUAN HUACHUANG ELECTRIC MATERIAL FACTORY
8	锡条 SOLDER	Sn0.7Cu 高温 A0	NA	NA	TIAN JIN SONG BEN
9	标签 LABEL	白底黑字	NA	MH27594	DONGGUAN XIANGQUAN PRINTING CO LTD
10	凡立水 VARNISH	TF-2137	NA	E361763	SHENZHEN TONGFANG ELECTRONIC NEWMATERIAL CO LTD