



Ref. Certif. No.

FR_712496

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

CB TEST CERTIFICATE

Product

Monitor
LCD Monitor

Name and address of the applicant

BenQ Corporation
16 Jihu Road, Neihu, Taipei 114 - TAIWAN

Name and address of the manufacturer

BenQ Corporation
16 Jihu Road, Neihu, Taipei 114 - TAIWAN

Name and address of the factory

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

Additional Information on page 2

Ratings and principal characteristics

100-240Vac, 50/60Hz, 2.5A

Trademark / Brand (if any)



Customer's Testing Facility (CTF) Stage used

/

Model / Type Ref.

IL4301*, IL430*, SS430*, VS430* (* means 0~9, A~Z or blank)

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

Additional Information on page 2

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

IEC 60950-1:2005 +A1:2009 +A2:2013

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

CBS2108WDG0169-2

This CB Test Certificate is issued by the National Certification Body



LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES - LCIE
33 avenue du Général Leclerc
92260 Fontenay-aux-Roses, FRANCE
www.lcie.fr



Date: 12/10/2021

Signature: Gilles LEMONNIER
Certification Officer

IEC

IECEE

Ref. Certif. No.

FR_712496

ANNEX

Name and address of the factories:

Shenzhen KTC Commercial Display Technology CO., LTD

No. 4023, Northern Wuhe Road, Bantian Street, Longgang District, Shenzhen City, Guangdong Province - CHINA

HUIZHOU KTC TECHNOLOGY CO., LTD.

NO.38 Guangtai Road, Huinan Hi-Tech Industrial Park, Huizhou - CHINA



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Date: 12/10/2021



Signature: **Gilles LEMONNIER**
Certification Officer

Test Report issued under the responsibility of:



TEST REPORT
IEC 60950-1
Information technology equipment – Safety –
Part 1: General requirements

Report Number..... : CBS2108WDG0169-2

Date of issue : Oct. 09, 2021

Total number of pages 52

Name of Testing Laboratory preparing the Report Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch
No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province, 523942, China

Applicant's name : BenQ Corporation

Address..... : 16 Jihu Road, Neihu, Taipei 114, Taiwan

Test specification:

Standard : IEC 60950-1:2005, AMD1:2009, AMD2:2013

Test procedure..... : CB Scheme

Non-standard test method : N/A

Test Report Form No...... : IEC60950_1G

Test Report Form(s) Originator : SGS Fimko Ltd

Master TRF : Dated 2019-07-02

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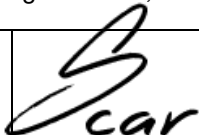
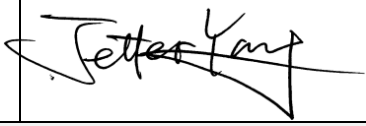
If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

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

General disclaimer:

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

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

Test item description :	LCD Monitor	
Trade Mark :		
Manufacturer	BenQ Corporation 16 Jihu Road, Neihu, Taipei 114, Taiwan	
Model/Type reference :	IL4301*, IL430*, SS430*, VS430* (* means 0~9, A~Z or blank)	
Ratings :	100-240Vac, 50/60Hz, 2.5A	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/> CB Testing Laboratory:	Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch	
Testing location/ address	No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province, 523942, China.	
Tested by (name, function, signature) :	Scar Li Engineer	
Approved by (name, function, signature) .. :	Jetter Yang Senior engineer	
<input type="checkbox"/> Testing procedure: CTF Stage 1:		
Testing location/ address		
Tested by (name, function, signature) :		
Approved by (name, function, signature) .. :		
<input type="checkbox"/> Testing procedure: CTF Stage 2:		
Testing location/ address		
Tested by (name + signature) :		
Witnessed by (name, function, signature) . :		
Approved by (name, function, signature) .. :		
<input type="checkbox"/> Testing procedure: CTF Stage 3:		
<input type="checkbox"/> Testing procedure: CTF Stage 4:		
Testing location/ address		
Tested by (name, function, signature) :		
Witnessed by (name, function, signature) . :		
Approved by (name, function, signature) .. :		
Supervised by (name, function, signature) :		

<p>List of Attachments (including a total number of pages in each attachment):</p> <ul style="list-style-type: none"> - 1 page of TABLE 2.4: limited current circuit measurement - 17 pages of EUROPEAN GROUP DIFFERENCES - 55 pages of NATIONAL DIFFERENCE - 11 pages of photos. 	
<p>Summary of testing:</p> <p>The equipment under test (EUT) has been evaluated at maximum ambient (T_{ma}) of +40°C according to the declaration of manufacture.</p> <p>All tests were measured on model IL4301, under the worst case and the load conditions used during testing is:</p> <ul style="list-style-type: none"> - The EUT playing three vertical bar signal under DP mode, to deliver 1/8 of max. non-clipped output power for two 8 ohm speakers, with max. brightness level, two USB2.0 ports loading 0.5A for each and OPS port loading 90W(18Vdc). 	
<p>Tests performed (name of test and test clause):</p> <ul style="list-style-type: none"> - 1.6.2 Input Test - 1.7.11 Durability of Marking Test - 2.1.1.5 Energy Hazard Measurements - 2.4 Limited Current Circuit - 2.5 Limited Power Source Measurements - 2.6.3.4, 2.6.1 Earthing Continuity Test - 2.9.1, 2.9.2, 5.2.2 Humidity Test - 2.10.3, 2.10.4 Clearance and Creepage Distance Measurements - 4.2.1-4.2.4 Steady Force Test - 4.2.5, 4.2.1 Steel Ball Impact test - 4.2.10 Mounting Means Loading Test - 4.3.2 Handles and Knobs Fixing Test - 4.5.1 Heating (Temperature) Test - 4.5.5 Ball Pressure Test - 5.1 Touch Current Test - 5.2.2 Electric Strength Test - 5.3 Abnormal and Fault Condition Tests 	<p>Testing location:</p> <p>Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province, 523942, China.</p>
<p>Summary of compliance with National Differences:</p> <p>EU Group Differences, AR*, AU, AT*, BH*, BY*, BE*, BR*, BG*, CA, CN, CO*, HR*, CZ*, DK, FI, FR*, DE, GR*, HU*, IN*, ID*, IE, IL, IT*, JP, KE*, KR, LY*, MY*, MX*, NL*, NZ, NO, PK*, PL*, PT*, RO*, RU*, SA*, RS*, SG, SK*, SI*, ZA*, ES, SE, CH, TH*, TR*, UA, AE*, GB, US.</p> <p>Explanation of used codes: (AR*=Argentina, AU=Australia, AT*= Austria, BH*= Bahrain, BY*= Belarus, BE*=Belgium, BR*= Brazil, BG*= Bulgaria, CA=Canada, CN=China, CO*= Colombia, HR*=Croatia, CZ*=Czech Republic, DK=Denmark, FI=Finland, FR*= France, DE=Germany, GR*=Greece, HU*=Hungary, IN*=India, ID*=Indonesia, IE=Ireland, IL=Israel, IT*= Italy, JP=Japan, KE*= Kenya, KR=Korea, LY*=Libian Arab Jamahiriya, MY*=Malaysia, MX*=Mexico, NL*=Netherlands, NZ=New Zealand, NO=Norway, PK*=Pakistan, PL*= Poland, PT*=Portugal, RO*=Romania, RU*=Russina Federation, SA*=Saudi Arabia, RS*=Serbia, SG=Singapore, SK*=Slovakia, SI*=Slovenia, ZA*=South Africa, ES=Spain, SE=Sweden, CH=Switzerland, TH*=Thailand, TR*=Turkey, UA=Ukraine, AE*=United Arab Emirates, GB=United Kingdom, US=United States of America)</p> <p>*The requirements for these countries have also been checked and found no national differences from the IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 standard.</p>	
<p><input checked="" type="checkbox"/> The product fulfils the requirements of EN 60950-1:2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013</p>	

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.

The below marking is only for representative. The official marking plate of all models is only different from format of label, model number for trading purpose.

	Product Name / Nom du produit : LCD Monitor / Moniteur LCD Название продукта: Название продукта: ЖК-монитор 產品名稱 / 제품명 : 彩色液晶平面顯示器 / 모니터	Consumo de energía en operación: XXXX Wh 此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. 警語：使用過度恐傷害視力 CAN ICES-003(A)/NMB-003(A)
	Model ID/Код модели /IDModèle/型號/모델명 : IL4301 Type/Тип/樣式 : IL4301 Rating/Рейтинг/Niveau/額定電壓/頻率/電流/정격입력 : 100-240V~, 50/60Hz, 2.5A Mfg. Date/Дата изг./Date fab./製造日期/제조년월 : <input type="text"/>	P/N. 料號 : <input type="text"/> Rev. /版本 : <input type="text"/> S/N. /序號 : <input type="text"/> MAC Add : <input type="text"/>
Manufactured for 상호명: BenQ Corporation(116 Jihu Road, Neihu, Taipei 114, Taiwan/Тайвань) 明基電通 臺北市114內湖區基湖路16號 Manufactured by 제조 업체: HUIZHOU KTC TECHNOLOGY CO.,LTD. Apparatet må tilkoples jordet stikkontakt Apparatet skall anslutas till jordat uttag Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord Laite on liitettävä suojakoskettimillä varustettuun pistorasiaan EU Importer: BenQ Europe B.V. (Meerenakkerweg 1-17, 5652 AR, Eindhoven, The Netherlands) UK Importer: BenQ UK Limited (7/10 Chandos Street, Cavendish Square, London W1G 9DQ).	     	R31740 RoHS
Made in China / Сделано в Китае / 中國製造 / 중국산		

Notes:

WEEE logo(crossed-out wheeled bin symbol with solid bar): at least 7 mm in height

Test item particulars :	
Equipment mobility	<input type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input checked="" type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in
Connection to the mains	<input checked="" type="checkbox"/> pluggable equipment <input checked="" type="checkbox"/> type A <input type="checkbox"/> type B <input type="checkbox"/> permanent connection <input checked="" type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord <input type="checkbox"/> not directly connected to the mains
Operating condition	<input checked="" type="checkbox"/> continuous <input type="checkbox"/> rated operating / resting time:
Access location	<input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location
Over voltage category (OVC)	<input type="checkbox"/> OVC I <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input type="checkbox"/> other:
Mains supply tolerance (%) or absolute mains supply values	±10%
Tested for IT power systems	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
IT testing, phase-phase voltage (V)	230Vac
Class of equipment	<input checked="" type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III <input type="checkbox"/> Not classified
Considered current rating of protective device as part of the building installation (A)	16A; 20A for US and Canada
Pollution degree (PD)	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
IP protection class	IPX0
Altitude during operation (m)	Below 5000 m
Altitude of test laboratory (m)	Below 2000 m
Mass of equipment (kg)	Approximate 18.8kg excludes power cord set

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	: August 13, 2021
Date (s) of performance of tests	: August 13, 2021 to Sep. 10, 2021
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 <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC60950-1:	
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..... :	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not applicable

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies): 1. Shenzhen KTC Commercial Display Technology CO., LTD
No. 4023, Northern Wuhe Road, Bantian Street, Longgang District, Shenzhen City, Guangdong Province, P.R. China

2. HUIZHOU KTC TECHNOLOGY CO., LTD.
NO. 38 GUANGTAI ROAD, HUINAN HI-TECH INDUSTRIAL PARK, HUIZHOU, CHINA

General product information:

1. The equipment is an "LCD Monitor" which has built-in certificated power supply and one remote controller which supplied by two "AAA" size carbon-zinc or alkaline batteries.
2. The equipment with an approved power cord set complied with the national regulations of the countries in where the appliance is to be sold.
3. Physical Size: approx. 1015mm x 597mm x 97mm.
4. The equipment has two 8 ohm speakers, may be operated under HDMI mode or DP mode or VGA mode, USB mode or Network mode, two USB2.0 ports loading 0.5A for each and OPS port can be loading 90W (18Vdc).
5. The equipment or accessories which will be connected to OPS port, shall comply with the requirements of applicable clause for standard IEC 60950-1 and must block the OPS port after installation.
6. There are two power supply boards in the equipment which model MP135TL-2N33-K2 and model MP120DM-18
7. The equipment with models IL4301*, IL430*, SS430* and VS430*(* means 0~9, A~Z or blank) are identical to each other except the appearance color and printing and model name for trading purpose.

Abbreviations used in the report:


- normal conditions	N.C.	- single fault conditions	S.F.C
- functional insulation	OP	- basic insulation	BI
- double insulation	DI	- supplementary insulation	SI
- between parts of opposite polarity	BOP	- reinforced insulation	RI


Indicate used abbreviations (if any)

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1	GENERAL		P
1.5	Components		P
1.5.1	General	Components, which were found to affect safety aspects, are conformed to the relevant IEC component standards and/or comply with the requirements of this standard.	P
	Comply with IEC 60950-1 or relevant component standard	(See appended table 1.5.1)	P
1.5.2	Evaluation and testing of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions presented in the equipment.	P
1.5.3	Thermal controls	No thermal controls used.	N/A
1.5.4	Transformers	Evaluated in the test report of power supply	P
1.5.5	Interconnecting cables	Interconnecting cable for Interconnection is carrying only SELV voltages on an energy level below 240 VA.	P
1.5.6	Capacitors bridging insulation	Approved capacitor used	P
1.5.7	Resistors bridging insulation	See below.	P
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	Functional insulation bridged by resistors which is protected by fuse.	P
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	No such components.	N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	No such components.	N/A
1.5.8	Components in equipment for IT power systems	Evaluated in the test report of power supply	P
1.5.9	Surge suppressors	See below	P
1.5.9.1	General	Evaluated in the test report of power supply	P
1.5.9.2	Protection of VDRs	Evaluated in the test report of power supply.	P
1.5.9.3	Bridging of functional insulation by a VDR	Evaluated in the test report of power supply	P
1.5.9.4	Bridging of basic insulation by a VDR	No such construction	N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	No such construction	N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

1.6	Power interface		P
1.6.1	AC power distribution systems	TN, IT or TT power system.	P
1.6.2	Input current	(see appended table 1.6.2)	P
1.6.3	Voltage limit of hand-held equipment	The equipment is not hand-held equipment.	N/A
1.6.4	Neutral conductor	Complied	P

1.7	Marking and instructions		P
1.7.1	Power rating and identification markings	See below	P
1.7.1.1	Power rating marking	See below	P
	Multiple mains supply connections.....:	Single power source	N/A
	Rated voltage(s) or voltage range(s) (V)	100-240Vac	P
	Symbol for nature of supply, for d.c. only.....:	The equipment is for a.c. supply.	N/A
	Rated frequency or rated frequency range (Hz) ...:	50/60Hz	P
	Rated current (mA or A)	2.5A	P
1.7.1.2	Identification markings	See below	P
	Manufacturer's name or trade-mark or identification mark	Trade mark: 	P
	Model identification or type reference	Model No.: IL4301*, IL430*, SS430* and VS430*(* means 0~9, A~Z or blank)	P
	Symbol for Class II equipment only	Class I equipment	N/A
	Other markings and symbols	Additional symbols or markings do not give risk to misunderstanding.	P
1.7.1.3	Use of graphical symbols	Correct symbol used on the label, and explained in the user manual	P
1.7.2	Safety instructions and marking	Safety related information in English has been evaluated. Manufacturer commits to provide them in the language of the countries where the product will be distributed.	P
1.7.2.1	General	See below.	P
1.7.2.2	Disconnect devices	The mains plug is used as disconnect device and warning is stated in the manual.	P
1.7.2.3	Overcurrent protective device	Not such equipment.	N/A
1.7.2.4	IT power distribution systems	The equipment was designed to connect an IT power distribution systems and mentioned in the manual.	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.2.5	Operator access with a tool	No tool is necessary to operate this product.	N/A
1.7.2.6	Ozone	This EUT is would be not produce the ozone.	N/A
1.7.3	Short duty cycles	This EUT is continuous operation equipment.	N/A
1.7.4	Supply voltage adjustment	No such device.	N/A
	Methods and means of adjustment; reference to installation instructions	No such device.	N/A
1.7.5	Power outlets on the equipment	No power outlet.	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)	The rated marking of fuse is located adjacent to each fuse on the PCB	P
1.7.7	Wiring terminals	See below	P
1.7.7.1	Protective earthing and bonding terminals	The symbol with “  ” is located adjacent to earthed terminal of appliance inlet	P
1.7.7.2	Terminals for a.c. mains supply conductors	Detachable power cord used.	N/A
1.7.7.3	Terminals for d.c. mains supply conductors	The EUT is not directly connected to the d.c. mains.	N/A
1.7.8	Controls and indicators	See below	P
1.7.8.1	Identification, location and marking	Integral marking on the switch	P
1.7.8.2	Colours	Colors of controls are not relied upon for safety	N/A
1.7.8.3	Symbols according to IEC 60417.....	Symbols “O” and “I” used and complied with IEC 60417.	P
1.7.8.4	Markings using figures	Not used	N/A
1.7.9	Isolation of multiple power sources	Single connection	N/A
1.7.10	Thermostats and other regulating devices	No thermostat or other regulating devices.	N/A
1.7.11	Durability	The label was subjected to the test for permanence of marking. The label was rubbed with cloth for 15s. And then rubbed by the cloth soaked with Naphtha for 15s. After this test there was no damage to the label. The marking on the label did not fade. There was neither curling nor lifting on the label edge.	P
1.7.12	Removable parts	The marking does not be placed on the removable part.	P
1.7.13	Replaceable batteries	Only “AAA” size carbon-zinc or alkaline battery used in remote control.	N/A
	Language(s)	--	—

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.14	Equipment for restricted access locations	No for use in the restricted access location.	N/A
2	PROTECTION FROM HAZARDS		P
2.1	Protection from electric shock and energy hazards		P
2.1.1	Protection in operator access areas	See below.	P
2.1.1.1	Access to energized parts	No access with test finger and test pin to any parts with hazards parts.	P
	Test by inspection	See below.	P
	Test with test finger (Figure 2A)	The test finger unable to contact bare hazardous parts	P
	Test with test pin (Figure 2B)	The test pin was unable to contact bare hazardous parts	P
	Test with test probe (Figure 2C)	No TNV circuit inside the EUT.	N/A
2.1.1.2	Battery compartments	No TNV circuit inside the EUT.	N/A
2.1.1.3	Access to ELV wiring	No ELV wiring in operator accessible area.	N/A
	Working voltage (V _{peak} or V _{rms}); minimum distance through insulation (mm)		—
2.1.1.4	Access to hazardous voltage circuit wiring	No hazardous voltage wiring in operator accessible area.	N/A
2.1.1.5	Energy hazards	See appended tables 2.1.1.5	P
2.1.1.6	Manual controls	No such device.	N/A
2.1.1.7	Discharge of capacitors in equipment	See below	P
	Measured voltage (V); time-constant (s).....	For power supply board model MP135TL-2N33-K2: Measured voltage is 0V at 1s. Max. voltage is 373V, and 37% of max. voltage is 138V For power supply board model MP120DM-18: Measured voltage is 35V at 1s. Max. voltage is 394V, and 37% of max. voltage is 146V	—
2.1.1.8	Energy hazards – d.c. mains supply	This product is not intended to be connected to d.c. mains supply.	N/A
	a) Capacitor connected to the d.c. mains supply ..	This product is not intended to be connected to d.c. mains supply.	N/A
	b) Internal battery connected to the d.c. mains supply :	This product is not intended to be connected to d.c. mains supply.	N/A
2.1.1.9	Audio amplifiers	Considered	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.1.2	Protection in service access areas	The unintentional contact to the hazardous parts is unlikely for the service person.	N/A
2.1.3	Protection in restricted access locations	It is not intended to be used in restricted locations.	N/A

2.2	SELV circuits		P
2.2.1	General requirements	See below	P
2.2.2	Voltages under normal conditions (V)	42.4V peak or 60Vd.c. are not exceeded in SELV circuit under normal operation. See appended table 2.2.	P
2.2.3	Voltages under fault conditions (V)	The transformer output had been evaluated in the test report of power supply, see appended table 2.2 for the output of power supply except LED terminals, the LED terminals are not accessible	P
2.2.4	Connection of SELV circuits to other circuits	SELV circuit is only connected to SELV circuit and limited current circuits.	P

2.3	TNV circuits		N/A
2.3.1	Limits	See below	N/A
	Type of TNV circuits.....	No TNV circuit	—
2.3.2	Separation from other circuits and from accessible parts	No TNV circuit	N/A
2.3.2.1	General requirements	No TNV circuit	N/A
2.3.2.2	Protection by basic insulation	No TNV circuit	N/A
2.3.2.3	Protection by earthing	No TNV circuit	N/A
2.3.2.4	Protection by other constructions	No TNV circuit	N/A
2.3.3	Separation from hazardous voltages	No TNV circuit	N/A
	Insulation employed		—
2.3.4	Connection of TNV circuits to other circuits	No TNV circuit	N/A
	Insulation employed		—
2.3.5	Test for operating voltages generated externally	No TNV circuit	N/A

2.4	Limited current circuits		P
2.4.1	General requirements	See below	P
2.4.2	Limit values	See table 2.4	P
	Frequency (Hz)		—
	Measured current (mA)		—

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Measured voltage (V)..... :		—
	Measured circuit capacitance (nF or μ F) :		—
2.4.3	Connection of limited current circuits to other circuits	Complied	P

2.5	Limited power sources		P
	a) Inherently limited output	No such circuit.	N/A
	b) Impedance limited output	No such circuit.	N/A
	c) Regulating network or IC current limiter, limits output under normal operating and single fault condition	Considered all output terminals, details see appended table 2.5	P
	Use of integrated circuit (IC) current limiters	No such component.	N/A
	d) Overcurrent protective device limited output	No such component.	N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA)..... :	The result see appended table 2.5.	—
	Current rating of overcurrent protective device (A) .:		—

2.6	Provisions for earthing and bonding		P
2.6.1	Protective earthing	The earth conductor has screw terminal and ring to dedicated terminal	P
2.6.2	Functional earthing	No functional earthing	N/A
	Use of symbol for functional earthing:	No functional earthing	N/A
2.6.3	Protective earthing and protective bonding conductors	Provided with a reliable earth connection	P
2.6.3.1	General	See below	P
2.6.3.2	Size of protective earthing conductors	See below	P
	Rated current (A), cross-sectional area (mm^2), AWG :	See appended table 1.5.1	—
2.6.3.3	Size of protective bonding conductors	See below	P
	Rated current (A), cross-sectional area (mm^2), AWG :	Evaluated by earthing continuity test.	—
	Protective current rating (A), cross-sectional area (mm^2), AWG..... :	Evaluated by earthing continuity test.	—
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min)..... :	Between PE pin of appliance inlet and the farthest metal enclosure: Resistance: 0.007ohm, Voltage drop: 0.23V, test current: 32A, Duration: 2minutes Resistance: 0.008ohm, Voltage drop: 0.32V, test current: 40A, Duration: 2minutes	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.6.3.5	Colour of insulation	Green- and-yellow earth wire used	P
2.6.4	Terminals	See below	P
2.6.4.1	General	Protective earthing terminal complied.	P
2.6.4.2	Protective earthing and bonding terminals	See below	P
	Rated current (A), type, nominal thread diameter (mm)..... :	Evaluated by earthing continuity test.	—
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	The equipment provided with an appliance inlet.	P
2.6.5	Integrity of protective earthing	See below	P
2.6.5.1	Interconnection of equipment	No such equipment	N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	The protective earthing conductors and protective bonding conductors have contained no components.	P
2.6.5.3	Disconnection of protective earth	When disconnected the protective earth, the equipment also disconnected from mains via approved power cord at the same time.	P
2.6.5.4	Parts that can be removed by an operator	An appliance coupler used.	P
2.6.5.5	Parts removed during servicing	Protective earthing connections disconnected with the removal of relevant hazard part at the same time.	P
2.6.5.6	Corrosion resistance	Cadmium on steel used for screw terminal and ring	P
2.6.5.7	Screws for protective bonding	The screw is threaded into the metal part at a minimum thickness of 1.0 mm for a screw of the thread-forming type.	P
2.6.5.8	Reliance on telecommunication network or cable distribution system	No such connection.	N/A

2.7	Overcurrent and earth fault protection in primary circuits		P
2.7.1	Basic requirements	Protection in primary circuits against over currents provided as an integral part of the equipment.	P
	Instructions when protection relies on building installation	No such construction	N/A
2.7.2	Faults not simulated in 5.3.7	Considered.	P
2.7.3	Short-circuit backup protection	The building installation is considered as providing short circuit backup protection.	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.7.4	Number and location of protective devices	The protective device is located adequately. It is able to interrupt the overcurrent flowing in any possible fault current path.	P
2.7.5	Protection by several devices	No such construction	N/A
2.7.6	Warning to service personnel	No such construction	N/A

2.8	Safety interlocks		N/A
2.8.1	General principles	No any hazards in the meaning of standard at operator access areas.	N/A
2.8.2	Protection requirements	There is no safety interlock in the equipment.	N/A
2.8.3	Inadvertent reactivation		N/A
2.8.4	Fail-safe operation		N/A
	Protection against extreme hazard		N/A
2.8.5	Moving parts		N/A
2.8.6	Overriding		N/A
2.8.7	Switches, relays and their related circuits		N/A
2.8.7.1	Separation distances for contact gaps and their related circuits (mm)		N/A
2.8.7.2	Overload test		N/A
2.8.7.3	Endurance test		N/A
2.8.7.4	Electric strength test		N/A
2.8.8	Mechanical actuators		N/A

2.9	Electrical insulation		P
2.9.1	Properties of insulating materials	Natural rubber, asbestos or hygroscopic materials are not used.	P
2.9.2	Humidity conditioning	See below.	P
	Relative humidity (%), temperature (°C)	Performed at 95% R.H., 40°C, for 120 hours.	—
2.9.3	Grade of insulation	Insulations are considered to be functional, basic insulation, supplementary insulation and reinforced insulation.	P
2.9.4	Separation from hazardous voltages	Basic insulation provided between earthed metal enclosure and primary parts. Reinforce or double insulation provided between secondary terminals, panel and primary parts.	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Method(s) used	Method 1 item b) and Method 2 item d) used.	—

2.10	Clearances, creepage distances and distances through insulation		P
2.10.1	General	See below.	P
2.10.1.1	Frequency	Evaluated in the test report of power supply	P
2.10.1.2	Pollution degrees	The EUT considered the pollution degree 2.	P
2.10.1.3	Reduced values for functional insulation	Considered 5.3.4 c).	P
2.10.1.4	Intervening unconnected conductive parts	Considered.	P
2.10.1.5	Insulation with varying dimensions	Not applicable.	N/A
2.10.1.6	Special separation requirements	Special separation is not used.	N/A
2.10.1.7	Insulation in circuits generating starting pulses	No such circuit in the equipment.	N/A
2.10.2	Determination of working voltage	(See appended table 2.10.2)	P
2.10.2.1	General	See below.	P
2.10.2.2	RMS working voltage	(See appended table 2.10.2)	P
2.10.2.3	Peak working voltage	(See appended table 2.10.2)	P
2.10.3	Clearances	See below	P
2.10.3.1	General	Considered.	P
2.10.3.2	Mains transient voltages	See below.	P
	a) AC mains supply	Equipment is overvoltage Category II.	P
	b) Earthed d.c. mains supplies	This EUT is not intended to be connected to d.c. mains	N/A
	c) Unearthed d.c. mains supplies	This EUT is not intended to be connected to d.c. mains	N/A
	d) Battery operation	The equipment is not intended to be supplied by the battery.	N/A
2.10.3.3	Clearances in primary circuits	(See appended table 2.10.3 and 2.10.4)	P
2.10.3.4	Clearances in secondary circuits	See sub-clause 5.3.4.	P
2.10.3.5	Clearances in circuits having starting pulses	No such circuit.	N/A
2.10.3.6	Transients from a.c. mains supply	Considered.	P
2.10.3.7	Transients from d.c. mains supply	The EUT is not intended to be connected to the d.c. mains.	N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems	The EUT is not intended to be connected to telecommunication networks and cable distribution systems	N/A
2.10.3.9	Measurement of transient voltage levels	See below.	N/A
	a) Transients from a mains supply	Measurement method not used.	N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	For an a.c. mains supply	Measurement method not used.	N/A
	For a d.c. mains supply	The EUT is not intended to be connected to the d.c. mains.	N/A
	b) Transients from a telecommunication network :	Not connected to telecommunication network.	N/A
2.10.4	Creepage distances	See below.	P
2.10.4.1	General	Considered.	P
2.10.4.2	Material group and comparative tracking index	Material group IIIb is assumed to be used.	P
	CTI tests.....	Material group IIIb is assumed to be used.	—
2.10.4.3	Minimum creepage distances	See appended table 2.10.3 and 2.10.4	P
2.10.5	Solid insulation	See below	P
2.10.5.1	General	Considered	P
2.10.5.2	Distances through insulation	See appended table 2.10.5	P
2.10.5.3	Insulating compound as solid insulation	No such construction	N/A
2.10.5.4	Semiconductor devices	Such component used on the approved power supply	P
2.10.5.5.	Cemented joints	No such construction	N/A
2.10.5.6	Thin sheet material – General	See below	P
2.10.5.7	Separable thin sheet material	Refer to 2.10.5.10	P
	Number of layers (pcs).....	Evaluated in the test report of power supply	—
2.10.5.8	Non-separable thin sheet material	No such material used	N/A
2.10.5.9	Thin sheet material – standard test procedure	No such material used	N/A
	Electric strength test	No such material used	—
2.10.5.10	Thin sheet material – alternative test procedure	Evaluated in the test report of power supply	P
	Electric strength test	Evaluated in the test report of power supply	—
2.10.5.11	Insulation in wound components	Not such construction	N/A
2.10.5.12	Wire in wound components	Evaluated in the test report of power supply	P
	Working voltage	Evaluated in the test report of power supply	P
	a) Basic insulation not under stress	No such construction	N/A
	b) Basic, supplementary, reinforced insulation	No such construction	N/A
	c) Compliance with Annex U	Evaluated in the test report of power supply	P
	Two wires in contact inside wound component; angle between 45° and 90°	Evaluated in the test report of power supply	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.10.5.13	Wire with solvent-based enamel in wound components	No such construction.	N/A
	Electric strength test		—
	Routine test		N/A
2.10.5.14	Additional insulation in wound components	No such construction.	N/A
	Working voltage	No such construction.	N/A
	- Basic insulation not under stress	No such construction.	N/A
	- Supplementary, reinforced insulation	No such construction.	N/A
2.10.6	Construction of printed boards	See below.	P
2.10.6.1	Uncoated printed boards	See appended table 2.10.3 and 2.10.4	P
2.10.6.2	Coated printed boards	No such printed board used.	N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	No such printed board used.	N/A
2.10.6.4	Insulation between conductors on different layers of a printed board	No such printed board used.	N/A
	Distance through insulation	No such printed board used.	N/A
	Number of insulation layers (pcs)	No such printed board used.	N/A
2.10.7	Component external terminations	No such construction.	N/A
2.10.8	Tests on coated printed boards and coated components	No such construction.	N/A
2.10.8.1	Sample preparation and preliminary inspection	No such construction.	N/A
2.10.8.2	Thermal conditioning	No such construction.	N/A
2.10.8.3	Electric strength test	No such construction.	N/A
2.10.8.4	Abrasion resistance test	No such construction.	N/A
2.10.9	Thermal cycling	The test was unnecessary.	N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound	No such component.	N/A
2.10.11	Tests for semiconductor devices and cemented joints	No such construction.	N/A
2.10.12	Enclosed and sealed parts	No hermetically sealed component.	N/A

3	WIRING, CONNECTIONS AND SUPPLY		P
3.1	General		P
3.1.1	Current rating and overcurrent protection	Internal wiring gauge is suitable for current intended to be carried.	P
3.1.2	Protection against mechanical damage	Wire ways are smooth and free from edges. Wires are adequately fixed to prevent excessive strain on wire	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
3.1.3	Securing of internal wiring	Internal wiring is secured against excessive strain, loosening of terminals and damage to the conductor insulation.	P
3.1.4	Insulation of conductors	The insulation of the individual conductors is suitable for the application and the working voltage.	P
3.1.5	Beads and ceramic insulators	No such insulator used	N/A
3.1.6	Screws for electrical contact pressure	No such screws used	N/A
3.1.7	Insulating materials in electrical connections	No non-metallic materials used in electrical connections.	P
3.1.8	Self-tapping and spaced thread screws	No self-tapping screws used in electrical connections.	P
3.1.9	Termination of conductors	All conductors are reliably secured.	P
	10 N pull test	10N force performed for all relevant conductors. No hazards caused.	P
3.1.10	Sleeving on wiring	No such part	N/A

3.2	Connection to a mains supply		P
3.2.1	Means of connection	See below.	P
3.2.1.1	Connection to an a.c. mains supply	The equipment provides certified appliance inlet for connection of approved detachable power supply cord.	P
3.2.1.2	Connection to a d.c. mains supply	The equipment is not for connection to a d.c. mains supply.	N/A
3.2.2	Multiple supply connections	Only for one supply connection.	N/A
3.2.3	Permanently connected equipment	Not permanently connected equipment.	N/A
	Number of conductors, diameter of cable and conduits (mm)		—
3.2.4	Appliance inlets	Approved inlet used	P
3.2.5	Power supply cords	See below	P
3.2.5.1	AC power supply cords	Approved detachable power cord used	P
	Type	See appended table 1.5.1	—
	Rated current (A), cross-sectional area (mm ²), AWG	See appended table 1.5.1	—
3.2.5.2	DC power supply cords	The equipment is not for connection to d.c. mains supply.	N/A
3.2.6	Cord anchorages and strain relief	Detachable power cord used	N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Mass of equipment (kg), pull (N)		—
	Longitudinal displacement (mm)		—
3.2.7	Protection against mechanical damage	No sharp points or cutting edges on the equipment surfaces.	P
3.2.8	Cord guards	Detachable power cord used	N/A
	Diameter or minor dimension D (mm); test mass (g)		—
	Radius of curvature of cord (mm)		—
3.2.9	Supply wiring space	Not permanent connection or non-detachable power cord type.	N/A

3.3	Wiring terminals for connection of external conductors		N/A
3.3.1	Wiring terminals	Detachable power cord used	N/A
3.3.2	Connection of non-detachable power supply cords	No wiring terminals	N/A
3.3.3	Screw terminals	No wiring terminals	N/A
3.3.4	Conductor sizes to be connected	No wiring terminals	N/A
	Rated current (A), cord/cable type, cross-sectional area (mm ²)		—
3.3.5	Wiring terminal sizes	No wiring terminals	N/A
	Rated current (A), type, nominal thread diameter (mm)		—
3.3.6	Wiring terminal design	No wiring terminals	N/A
3.3.7	Grouping of wiring terminals	No wiring terminals	N/A
3.3.8	Stranded wire	Not stranded wire used	N/A

3.4	Disconnection from the mains supply		P
3.4.1	General requirement	See clause 3.4.2	P
3.4.2	Disconnect devices	Mains plug was used as disconnected device.	P
3.4.3	Permanently connected equipment	The EUT is not permanently connected equipment	N/A
3.4.4	Parts which remain energized	No parts remain energized.	N/A
3.4.5	Switches in flexible cords	The switch doesn't be fitted in flexible cord	P
3.4.6	Number of poles - single-phase and d.c. equipment	The disconnect device disconnects both poles simultaneously.	P
3.4.7	Number of poles - three-phase equipment	Single phase equipment	N/A
3.4.8	Switches as disconnect devices	The switch not be considered as disconnect device	N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
3.4.9	Plugs as disconnect devices	The main plug will be regarded as disconnect device, warning is provided in user manual.	P
3.4.10	Interconnected equipment	Interconnected to other device by secondary SELV terminal only.	N/A
3.4.11	Multiple power sources	Only one supply connection provided.	N/A

3.5	Interconnection of equipment		P
3.5.1	General requirements	See below	P
3.5.2	Types of interconnection circuits	Only SELV and Limited current circuit were used as interconnection circuit.	P
3.5.3	ELV circuits as interconnection circuits	No ELV interconnection circuits.	N/A
3.5.4	Data ports for additional equipment	The data ports complies with LPS requirements, see appended table 2.5.	P

4	PHYSICAL REQUIREMENTS		P
4.1	Stability		N/A
	Angle of 10°	The EUT is used by mounting wall.	N/A
	Test force (N)	Not floor-standing equipment.	N/A

4.2	Mechanical strength		P
4.2.1	General	See below.	P
	Rack-mounted equipment.	Not rack-mounted equipment.	N/A
4.2.2	Steady force test, 10 N	No safety relevant damaged	P
4.2.3	Steady force test, 30 N	No door or cover in an operator access area.	N/A
4.2.4	Steady force test, 250 N	250N applied to outer enclosure. No energy or other hazards.	P
4.2.5	Impact test	See below	P
	Fall test	After test, no safety relevant damages.	P
	Swing test	After test, no safety relevant damages.	P
4.2.6	Drop test; height (mm)	See clause 4.2.5	N/A
4.2.7	Stress relief test	Not used thermoplastic materials for enclosure	N/A
4.2.8	Cathode ray tubes	No CRT inside the EUT.	N/A
	Picture tube separately certified	No CRT inside the EUT.	N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.2.9	High pressure lamps	No high pressure lamps.	N/A
4.2.10	Wall or ceiling mounted equipment; force (N) :	Applied additional force 553N for 1 minute and no damage after test	P
4.3	Design and construction		P
4.3.1	Edges and corners	Edges and corners of the enclosure are rounded.	P
4.3.2	Handles and manual controls; force (N) :	Two handles provided on the equipment, applied force 50N for 1 minute on each handle and no damage after test.	P
4.3.3	Adjustable controls	No similar controls.	N/A
4.3.4	Securing of parts	Electrical and mechanical connects withstand mechanical stresses.	P
4.3.5	Connection by plugs and sockets	Not possibility of the mismatch of connectors, plugs or socket possible	P
4.3.6	Direct plug-in equipment	No such part	N/A
	Torque :	No such part	—
	Compliance with the relevant mains plug standard :	No such part	N/A
4.3.7	Heating elements in earthed equipment	No heating element.	N/A
4.3.8	Batteries	Only non-rechargeable carbon-zinc or alkaline battery used in remote control.	P
	- Overcharging of a rechargeable battery	Non-rechargeable battery used in remote control.	N/A
	- Unintentional charging of a non-rechargeable battery	Non-rechargeable battery used in remote control.	N/A
	- Reverse charging of a rechargeable battery	Non-rechargeable battery used in remote control.	N/A
	- Excessive discharging rate for any battery	Only non-rechargeable carbon-zinc or alkaline battery used in remote control are considered safe without discharge test	P
4.3.9	Oil and grease	No oil and grease inside the equipment.	N/A
4.3.10	Dust, powders, liquids and gases	The equipment is not intended to be exposed to dust, powers, liquids and gases.	N/A
4.3.11	Containers for liquids or gases	No container for liquids or gases provided.	N/A
4.3.12	Flammable liquids :	No flammable liquids in the equipment.	N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Quantity of liquid (l)	No flammable liquids in the equipment.	N/A
	Flash point (°C)	No flammable liquids in the equipment.	N/A
4.3.13	Radiation	See clause 4.3.13.5.	P
4.3.13.1	General	No risk of harmful effects of radiation	P
4.3.13.2	Ionizing radiation	No ionizing radiation.	N/A
	Measured radiation (pA/kg)	--	—
	Measured high-voltage (kV)	--	—
	Measured focus voltage (kV)	--	—
	CRT markings	--	—
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No UV radiation.	N/A
	Part, property, retention after test, flammability classification	No UV radiation.	N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation	No UV radiation.	N/A
4.3.13.5	Lasers (including laser diodes) and LEDs	See below	P
4.3.13.5.1	Lasers (including laser diodes)	No such devices.	N/A
	Laser class	--	—
4.3.13.5.2	Light emitting diodes (LEDs)	The LEDs used for indicating, which are considered as low power application, need not comply with IEC 62471	—
4.3.13.6	Other types	No other type of source inside the EUT.	N/A

4.4	Protection against hazardous moving parts		N/A
4.4.1	General	No hazardous moving part in operator access areas.	N/A
4.4.2	Protection in operator access areas	No hazardous moving part in operator access areas.	N/A
	Household and home/office document/media shredders	No such equipment	N/A
4.4.3	Protection in restricted access locations	No hazardous moving in the service access area	N/A
4.4.4	Protection in service access areas	No hazardous part in operator access areas.	N/A
4.4.5	Protection against moving fan blades	No moving fan blades used	N/A
4.4.5.1	General	No moving fan blades used	N/A
	Not considered to cause pain or injury. a).....		N/A
	Is considered to cause pain, not injury. b)		N/A
	Considered to cause injury. c)		N/A
4.4.5.2	Protection for users	No moving fan blades used	N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

	Use of symbol or warning		N/A
4.4.5.3	Protection for service persons	No moving fan blades used	N/A
	Use of symbol or warning		N/A

4.5	Thermal requirements		P
4.5.1	General	Considered	P
4.5.2	Temperature tests	(see appended table 4.5)	P
	Normal load condition per Annex L	See operation condition under "Summary of testing".	—
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	P
4.5.5	Resistance to abnormal heat	The phenolic materials used for the transformer which is accepted without the further testing. see appended table 4.5.5 for pluggable connector material.	P

4.6	Openings in enclosures		P
4.6.1	Top and side openings	The openings do not exceed 5mm in any dimension, see below	P
	Dimensions (mm)	Many circulars with Max. Φ 3.0mm diameter on the rear side.	—
4.6.2	Bottoms of fire enclosures	See below	P
	Construction of the bottom, dimensions (mm) ..	Many circulars with Max. Φ 2.0mm diameter on the Bottom Openings, the spacing of holes centre to centre is min. 4.0mm.	—
4.6.3	Doors or covers in fire enclosures	No such part	N/A
4.6.4	Openings in transportable equipment	Not transportable equipment	N/A
4.6.4.1	Constructional design measures	Not transportable equipment	N/A
	Dimensions (mm)		—
4.6.4.2	Evaluation measures for larger openings	Not transportable equipment	N/A
4.6.4.3	Use of metallized parts	Not transportable equipment	N/A
4.6.5	Adhesives for constructional purposes	Approved adhesives used	P
	Conditioning temperature (°C), time (weeks).....		—

4.7	Resistance to fire		P
4.7.1	Reducing the risk of ignition and spread of flame	See below.	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Method 1, selection and application of components wiring and materials	Selection of components for the simulation of faults with acceptable results, and use of materials with the required flammability class.	P
	Method 2, application of all of simulated fault condition tests	Method 1 used.	N/A
4.7.2	Conditions for a fire enclosure	See below.	P
4.7.2.1	Parts requiring a fire enclosure	The fire enclosure is required to cover all parts	P
4.7.2.2	Parts not requiring a fire enclosure	Fire enclosure is necessary	N/A
4.7.3	Materials		P
4.7.3.1	General	Component and material had adequate flammability classification, see table 1.5.1 for details.	P
4.7.3.2	Materials for fire enclosures	Metal enclosure used	P
4.7.3.3	Materials for components and other parts outside fire enclosures	No such parts	N/A
4.7.3.4	Materials for components and other parts inside fire enclosures	Rated V-1 or better PCB material used	P
4.7.3.5	Materials for air filter assemblies	No air filter provided.	N/A
4.7.3.6	Materials used in high-voltage components	No high-voltage component inside the equipment.	N/A

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		P
5.1	Touch current and protective conductor current		P
5.1.1	General		P
5.1.2	Configuration of equipment under test (EUT)	See below.	P
5.1.2.1	Single connection to an a.c. mains supply	Considered.	P
5.1.2.2	Redundant multiple connections to an a.c. mains supply	Only single connection to an a.c. mains supply.	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	Only single connection to an a.c. mains supply.	N/A
5.1.3	Test circuit	Figure 5A used	P
5.1.4	Application of measuring instrument	Using measuring instrument in Annex D.	P
5.1.5	Test procedure	Considered.	P
5.1.6	Test measurements	Considered.	P
	Supply voltage (V)	264Vac	—
	Measured touch current (mA)	See appended table 5.1	—
	Max. allowed touch current (mA)	0.25mA (unearthed) 3.5mA (earthed)	—

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Measured protective conductor current (mA)		—
	Max. allowed protective conductor current (mA) ..		—
5.1.7	Equipment with touch current exceeding 3,5 mA		N/A
5.1.7.1	General	See below	N/A
5.1.7.2	Simultaneous multiple connections to the supply	No such construction.	N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	The EUT is not connected to a telecommunication system and a cable distribution system.	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	The EUT is not connected to a telecommunication system and a cable distribution system.	N/A
	Supply voltage (V)		—
	Measured touch current (mA)		—
	Max. allowed touch current (mA)		—
5.1.8.2	Summation of touch currents from telecommunication networks	Not connected to telecommunication networks.	N/A
	a) EUT with earthed telecommunication ports	Not connected to telecommunication networks.	N/A
	b) EUT whose telecommunication ports have no reference to protective earth	Not connected to telecommunication networks.	N/A

5.2	Electric strength		P
5.2.1	General	See appended table 5.2	P
5.2.2	Test procedure	See appended table 5.2	P

5.3	Abnormal operating and fault conditions		P
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	P
5.3.2	Motors	No motor used	N/A
5.3.3	Transformers	See appended table 5.3 and Annex C.	P
5.3.4	Functional insulation	Method c) used. Result see appended table 5.3	P
5.3.5	Electromechanical components	No electromechanical component.	N/A
5.3.6	Audio amplifiers in ITE	Considered	P
5.3.7	Simulation of faults	See appended table 5.3	P
5.3.8	Unattended equipment	No such components used	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	See below.	P
5.3.9.1	During the tests	No flame in the equipment. No molten metal was emitted.	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.3.9.2	After the tests	No reduction of clearance and creepage distance. Electric strength test: Primary to SELV, primary to metal enclosure and panel were passed.	P

6	CONNECTION TO TELECOMMUNICATION NETWORKS		N/A
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment		N/A
6.1.1	Protection from hazardous voltages		N/A
6.1.2	Separation of the telecommunication network from earth		N/A
6.1.2.1	Requirements	No TNV circuit.	N/A
	Supply voltage (V)		—
	Current in the test circuit (mA)		—
6.1.2.2	Exclusions		N/A

6.2	Protection of equipment users from overvoltages on telecommunication networks		N/A
6.2.1	Separation requirements	No TNV circuit.	N/A
6.2.2	Electric strength test procedure	No TNV circuit.	N/A
6.2.2.1	Impulse test	No TNV circuit.	N/A
6.2.2.2	Steady-state test	No TNV circuit.	N/A
6.2.2.3	Compliance criteria	No TNV circuit.	N/A

6.3	Protection of the telecommunication wiring system from overheating		N/A
	Max. output current (A)	The EUT is not intended to supply other units via telecommunication line.	—
	Current limiting method		—

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		N/A
7.1	General	Not connected to the cable distribution system.	N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	Not connected to the cable distribution system.	N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system	Not connected to the cable distribution system.	N/A
7.4	Insulation between primary circuits and cable distribution systems	Not connected to the cable distribution system.	N/A
7.4.1	General	Not connected to the cable distribution system.	N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
7.4.2	Voltage surge test	Not connected to the cable distribution system.	N/A
7.4.3	Impulse test	Not connected to the cable distribution system.	N/A

A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)	Metal enclosure used	N/A
A.1.1	Samples		—
	Wall thickness (mm).....		—
A.1.2	Conditioning of samples; temperature (°C)		N/A
A.1.3	Mounting of samples		N/A
A.1.4	Test flame (see IEC 60695-11-3)		N/A
	Flame A, B, C or D		—
A.1.5	Test procedure		N/A
A.1.6	Compliance criteria		N/A
	Sample 1 burning time (s).....		—
	Sample 2 burning time (s).....		—
	Sample 3 burning time (s).....		—
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)		N/A
A.2.1	Samples, material		—
	Wall thickness (mm).....		—
A.2.2	Conditioning of samples; temperature (°C)		N/A
A.2.3	Mounting of samples		N/A
A.2.4	Test flame (see IEC 60695-11-4)		N/A
	Flame A, B or C		—
A.2.5	Test procedure		N/A
A.2.6	Compliance criteria		N/A
	Sample 1 burning time (s).....		—
	Sample 2 burning time (s).....		—
	Sample 3 burning time (s).....		—
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9		N/A
	Sample 1 burning time (s).....		—
	Sample 2 burning time (s).....		—
	Sample 3 burning time (s).....		—
A.3	Hot flaming oil test (see 4.6.2)		N/A
A.3.1	Mounting of samples		N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

A.3.2	Test procedure		N/A
A.3.3	Compliance criterion		N/A

B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		N/A
B.1	General requirements	See below	N/A
	Position	No motor used	—
	Manufacturer	No motor used	—
	Type	No motor used	—
	Rated values	No motor used	—
B.2	Test conditions	No motor used	N/A
B.3	Maximum temperatures	No motor used	N/A
B.4	Running overload test		N/A
B.5	Locked-rotor overload test		N/A
	Test duration (days)		—
	Electric strength test: test voltage (V)		—
B.6	Running overload test for d.c. motors in secondary circuits	No motor used	N/A
B.6.1	General		N/A
B.6.2	Test procedure		N/A
B.6.3	Alternative test procedure		N/A
B.6.4	Electric strength test; test voltage (V)		N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	No motor used	N/A
B.7.1	General		N/A
B.7.2	Test procedure		N/A
B.7.3	Alternative test procedure		N/A
B.7.4	Electric strength test; test voltage (V)		N/A
B.8	Test for motors with capacitors	No such motor used.	N/A
B.9	Test for three-phase motors	No such motor used.	N/A
B.10	Test for series motors	No such motor used.	N/A
	Operating voltage (V)		—

C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		P
	Position	Transformer used on the certificated power supply	—
	Manufacturer	Evaluated in the test report of power supply	—
	Type		—
	Rated values		—

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Method of protection		—
C.1	Overload test	See appended table 5.3	P
C.2	Insulation	Evaluated in the test report of power supply	P
	Protection from displacement of windings		P
D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		P
D.1	Measuring instrument	Measuring instrument D.1 is used	P
D.2	Alternative measuring instrument		N/A
E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)		P
F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)		P
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		N/A
G.1	Clearances	Not used.	N/A
G.1.1	General	Not used.	N/A
G.1.2	Summary of the procedure for determining minimum clearances	Not used.	N/A
G.2	Determination of mains transient voltage (V)	Not used.	N/A
G.2.1	AC mains supply		N/A
G.2.2	Earthed d.c. mains supplies		N/A
G.2.3	Unearthed d.c. mains supplies		N/A
G.2.4	Battery operation		N/A
G.3	Determination of telecommunication network transient voltage (V)	Not used.	N/A
G.4	Determination of required withstand voltage (V)	Not used.	N/A
G.4.1	Mains transients and internal repetitive peaks		N/A
G.4.2	Transients from telecommunication networks		N/A
G.4.3	Combination of transients		N/A
G.4.4	Transients from cable distribution systems		N/A
G.5	Measurement of transient voltages (V)	Not used.	N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply		N/A
	For a d.c. mains supply		N/A
	b) Transients from a telecommunication network		N/A
G.6	Determination of minimum clearances	Not used.	N/A


IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
H	ANNEX H, IONIZING RADIATION (see 4.3.13)		N/A
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		P
	Metal(s) used	Cadmium on steel used for screw terminal and ring	—
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)		N/A
K.1	Making and breaking capacity	No thermal control in the EUT.	N/A
K.2	Thermostat reliability; operating voltage (V)	No thermal control in the EUT.	N/A
K.3	Thermostat endurance test; operating voltage (V)	No thermal control in the EUT.	N/A
K.4	Temperature limiter endurance; operating voltage (V)	No thermal control in the EUT.	N/A
K.5	Thermal cut-out reliability	No thermal control in the EUT.	N/A
K.6	Stability of operation	No thermal control in the EUT.	N/A
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)		P
L.1	Typewriters	No such device in the EUT.	N/A
L.2	Adding machines and cash registers	No such device in the EUT.	N/A
L.3	Erasers	No such device in the EUT.	N/A
L.4	Pencil sharpeners	No such device in the EUT.	N/A
L.5	Duplicators and copy machines	No such device in the EUT.	N/A
L.6	Motor-operated files	No such device in the EUT.	N/A
L.7	Other business equipment	See operation condition under "Summary of testing".	P
M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		N/A
M.1	Introduction	No phone ringing is generated in the EUT.	N/A
M.2	Method A		N/A
M.3	Method B		N/A
M.3.1	Ringling signal		N/A
M.3.1.1	Frequency (Hz)		—
M.3.1.2	Voltage (V)		—
M.3.1.3	Cadence; time (s), voltage (V)		—
M.3.1.4	Single fault current (mA)		—
M.3.2	Tripping device and monitoring voltage		N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
M.3.2.2	Tripping device		N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
M.3.2.3	Monitoring voltage (V)		N/A
N	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)		N/A
N.1	ITU-T impulse test generators	Not used.	N/A
N.2	IEC 60065 impulse test generator	Not used.	N/A
P	ANNEX P, NORMATIVE REFERENCES		—
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)		P
	- Preferred climatic categories	Evaluated in the test report of power supply	P
	- Maximum continuous voltage		P
	- Combination pulse current		P
	Body of the VDR Test according to IEC60695-11-5.....		P
	Body of the VDR. Flammability class of material (min V-1).....		P
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	Not used.	N/A
R.2	Reduced clearances (see 2.10.3)	Not used.	N/A
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		N/A
S.1	Test equipment	Not used.	N/A
S.2	Test procedure	Not used.	N/A
S.3	Examples of waveforms during impulse testing	Not used.	N/A
T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		N/A
		IPX0	—
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		P
		Approved triple insulated wire	—
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)		P
V.1	Introduction	See below	P
V.2	TN power distribution systems	See clause 1.6.1	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
W	ANNEX W, SUMMATION OF TOUCH CURRENTS		N/A
W.1	Touch current from electronic circuits		N/A
W.1.1	Floating circuits		N/A
W.1.2	Earthed circuits		N/A
W.2	Interconnection of several equipments		N/A
W.2.1	Isolation		N/A
W.2.2	Common return, isolated from earth		N/A
W.2.3	Common return, connected to protective earth		N/A
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)		P
X.1	Determination of maximum input current	See Annex C	P
X.2	Overload test procedure	Electronic protection mode is used	P
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		N/A
Y.1	Test apparatus	Not used.	N/A
Y.2	Mounting of test samples	Not used.	N/A
Y.3	Carbon-arc light-exposure apparatus	Not used.	N/A
Y.4	Xenon-arc light exposure apparatus	Not used.	N/A
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)		P
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N/A
BB	ANNEX BB, CHANGES IN THE SECOND EDITION		—
CC	ANNEX CC, Evaluation of integrated circuit (IC) current limiters		N/A
CC.1	General		N/A
CC.2	Test program 1.....		N/A
CC.3	Test program 2.....		N/A
CC.4	Test program 3.....		N/A
CC.5	Compliance.....		N/A
DD	ANNEX DD, Requirements for the mounting means of rack-mounted equipment		N/A
DD.1	General	No such construction.	N/A
DD.2	Mechanical strength test, variable N.....	No such construction.	N/A
DD.3	Mechanical strength test, 250N, including end stops.....	No such construction.	N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
DD.4	Compliance.....:	No such construction.	N/A
EE	ANNEX EE, Household and home/office document/media shredders		N/A
EE.1	General	Not such equipment	N/A
EE.2	Markings and instructions	Not such equipment	N/A
	Use of markings or symbols.....:	Not such equipment	N/A
	Information of user instructions, maintenance and/or servicing instructions.....:	Not such equipment	N/A
EE.3	Inadvertent reactivation test.....:	Not such equipment	N/A
EE.4	Disconnection of power to hazardous moving parts:	Not such equipment	N/A
	Use of markings or symbols.....:	Not such equipment	N/A
EE.5	Protection against hazardous moving parts	Not such equipment	N/A
	Test with test finger (Figure 2A)	Not such equipment	N/A
	Test with wedge probe (Figure EE1 and EE2)	Not such equipment	N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

1.5.1	TABLE: List of critical components					P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹⁾	
Metal enclosure	--	--	Measured thickness is min. 1.0mm	IEC 60950-1	Tested with appliance	
Metal enclosure outside on the OPS port	--	--	Measured thickness is min. 0.60mm	IEC 60950-1	Tested with appliance	
Plastic material used for OPS model	Sabic Japan L L C	420SE0(f2)(w) (GG)(rr2)	V-0, 130°C, required thickness is min. 0.71mm, measured thickness is min. 0.75mm	UL 94	UL	
Or	Toray Industries Inc	1164G-30 (ri) (f2)	V-0, 130°C, required thickness is min. 0.75mm, measured thickness is min. 0.75mm	UL 94	UL	
Panel	SHENZHEN KTC COMMERCIAL DISPLAY TECHNOLOGY CO., LTD	K430WD93	43 inch, TFT-LCD, display resolution: 3840*2160	IEC 60950-1	Tested with appliance	
Power plug (EU type)	I-Sheng Electric Wire & Cable Co., Ltd.	SP-023	16 A, 250 Vac	VDE 0620-2-1	VDE	
Or	Shenzhen G-CINDA Power Solution Co., Ltd.	GXD-012	16 A, 250 Vac	VDE 0620-2-1	VDE	
Or	Interchangeable	--	Min. 10A, min. 250 Vac	VDE 0620-2-1	VDE or other cert. marking	
-Description:	Interchangeability based on specified rating					
Power plug (UK type)	I-Sheng Electric Wire & Cable Company Limited	SP-62	10A, 250 Vac	BS 1363-1		
Or	Shenzhen G-CINDA Power Solution Co., Ltd.	GXD-018	13A, 250 Vac	BS 1363-1	ASTA	
Or	Interchangeable	--	Min. 10A, min. 250 Vac	BS 1363-1	BSI or other cert. marking	
-Description:	Interchangeability based on specified rating					
Power cord	I-Sheng Electric Wire & Cable Company Limited	H05VV-F	3 × 0.75 mm ² , or 3 × 1 mm ²	EN 50525-2-11	VDE	
Or	Shenzhen G-CINDA Power Solution Co., Ltd.	H05VV-F	3 × 0.75 mm ² , 3 × 1 mm ²	EN 50525-2-11	VDE	

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
Or	Interchangeable	--	3 × 0.75 mm ² , 3 × 1 mm ²	IEC/EN 50525-2-11	VDE or other cert. marking
-Description:	Interchangeability based on specified rating				
Appliance connector	I-Sheng Electric Wire & Cable Co., Ltd.	IS-14N	10A, 250Vac	EN 60320-1, EN 60320-3	ENEC
Or	Shenzhen G-CINDA Power Solution Co., Ltd.	DRF-005	10A, 250Vac	IEC 60320-1	VDE
Or	Interchangeable	--	10A, 250Vac	IEC/EN 60320-1	VDE or other cert. marking
-Description:	Interchangeability based on specified rating				
Double-sides tape with adhesive	Interchangeable	--	Indoor use, min 80°C	UL 746C	UL
-Description:	Interchangeability based on specified rating and same combination surfaces.				
Appliance inlet	Steady Electronics Corporation	2107	10A, 250Vac, 70°C	UL498, IEC 60320-1	UL, VDE
Or	Zhe Jiang Bei Er Jia Electronic Co., Ltd.	ST-A01-001L, ST-A01-002L, ST-A01-003J, ST-A01-003K	10A, 250Vac, 70°C	UL498, IEC 60320-1	UL, VDE
Or	Zhe Jiang Bei ErJia Electronic Co. Ltd.	ST-A01-003JC, ST-A01-003JD, ST-A01-003JE, ST-A01-003JK, ST-A01-003JL	10A, 250Vac, 70°C	UL 498, IEC 60320-1	UL, VDE
Or	Zhejiang LECI Electronics Co., Ltd	DB-14, DB-14-1, DB-14-2, DB-14-3, DB-14-5, DB-14-6, DB-14-7, DB-14-8, DB-14-10	10A, 250Vac, 70°C	IEC 60320-1	VDE
Or	Yueqing Yanhui Electronic Co., Ltd	DB-14	10A, 250Vac, 70°C	IEC 60320-1	VDE
Or	Interchangeable	--	Min. 10A, min. 250Vac, min. 70°C	UL498, IEC/EN 60320-1	UL, VDE or other cert. marking
-Description:	Interchangeability based on specified rating				
Power switch	Zhejiang LECI Electronics Co., Ltd.	RS601 series	6(4)A, 250Vac, 85°C	UL 1054, IEC 61058-1	UL, VDE
Or	Zhe Jiang Bei Er Jia Electronic Co., Ltd.	PS8A-11	12(4)A 250Vac, 105°C	UL 1054, IEC 61058-1	UL, VDE
Or	Zhe Jiang BeiErJia Electronic Co., Ltd.	PS8A Series	6(4)A, 250Vac, 125°C	UL 61058-1	UL

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
Or	Zhe Jiang BeiErJia Electronic Co., Ltd.	PS8A	6(4)A, 250Vac, 125°C	IEC 61058-1	VDE
Or	Zhejiang Yuyang Technology Co., Ltd.	RS-2206	6A, 250Vac, 85°C	UL 1054, EN 61058-1	UL, TUV
Pluggable connector material (CN101) (housing)	Asahi Kasei Corp	FR370(j)	V-0, 95°C	UL 94	UL
Earthed lead wire	Dongguan Zelongkang Wire Co., Ltd	1015	18AWG, 600Vac, 105°C, VW-1	UL 758	UL
Or	Interchangeable	1015	Min. 18AWG, min. 300Vac, min. 105°C, VW-1	UL 758	UL
-Description:	Interchangeability based on specified rating				
Input lead wire of power supply	YUTONG ELECTRONICS (HUI ZHOU) CO LTD	1617	18AWG, 600Vac, 105°C, VW-1	UL 758	UL
Or	Interchangeable	--	Min. 18AWG, min. 600Vac, min. 105°C, VW-1	UL 758	UL
-Description:	Interchangeability based on specified rating				
Output lead wire of power supply	Shenzhen City De Xing Long Electric Co Ltd	1007	28AWG, 300Vac, 80°C, VW-1	UL 758	UL
Or	Interchangeable	--	Min. 28AWG, min. 80°C, VW-1	UL 758	UL
-Description:	Interchangeability based on specified rating				
Power supply	Shenzhen Megmeet Electrical Co., Ltd	MP135TL-2N33-K2	Input: 100-240Vac, 50/60Hz, 3A Max. Output: STB(+5.2Vdc, 0.5A); V5(+5.2Vdc, 3A); V12(+12.3Vdc, 4A); VLED(≤101W, 105-195Vdc, ≤520mA), operated ambient 45°C	IEC 62368-1: 2014	Shenzhen Academy of Metrology and Quality Inspection with CB test report SMQ-194911 (cert No. CN48185), SMQ-194911-M1 (cert No. CN48185-M1), SMQ-194911-M2 (cert No. CN48185-M2)

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
Another power supply	Shenzhen MEGMEET Electrical Co., Ltd	MP120DM-18	Input: 100-240Vac, 50/60Hz, 1.4A Max. Output: 18Vdc, 5.55A, operated ambient 40°C	IEC 62368-1: 2014	Shenzhen UnionTrust Quality and Technology Co., Ltd (UTT) with CB test report No. 210518017C B-1 (CB Cert No. DK-116098-UL)
IC (U1004, U1014, U1309, U1310 and U1311) used for main board	SG MICRO CORP	SGM2588KYN5 G/TR	Input: 2.5-5.5Vdc, output: 0-5.0Vdc, max. 2.6A	IEC 62368-1: 2018	SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. with CB test report SHES20120 2575101 dated on Jan. 04, 2021 (CB cert No. BE-38642)
Mylar sheet	Sabic Innovative Plastics US L L C	FR700(GG)	V-0, 125°C, required thickness is min. 0.25mm, measured thickness is min. 0.25mm	UL 94	UL
Or	Dupont Hongji Films Foshan Co., Ltd.	EM	VTM-2, 105 °C, required thickness is min. 0.25mm, measured thickness is min. 0.25mm	UL 94	UL
Or	Jiangsu Yuxing Film Technology Co., Ltd.	6021	VTM-2, 105 °C, required thickness is min. 0.25mm, measured thickness is min. 0.25mm	UL 94	UL
Or	SABIC INNOVATIVE PLASTICS US L L C	FR700	V-0, 130 °C, required thickness is min. 0.25mm, measured thickness is min. 0.25mm	UL 94	UL
Or	SABIC JAPAN L L C	FR700	V-0, 130 °C, required thickness is min. 0.25mm, measured thickness is min. 0.25mm	UL 94	UL
Or	SABIC JAPAN L L C	FR1(E1) (GG1)	VTM-0, 125 °C, required thickness is min. 0.25mm, measured thickness is min. 0.25mm	UL 94	UL

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict
Or	FORMEX, DIV OF ILLINOIS TOOL WORKS INC	Formex N1J-(a)(b)(f2)	VTM-0, 105 °C, required thickness is min. 0.25mm, measured thickness is min. 0.25mm	UL 94	UL
PCB material (except power supply)	Shenzhen Stariver Circuits Co Ltd	SR-01	V-0, 130°C	UL 796	UL
Or	Interchangeable	--	V-1 or better, min. 105°C	UL 796	UL
-Description:	Interchangeability based on specified rating				
RTC capacitor (C279) (on the main board)	Shanghai yongmin	SNC 1.0F 5.5V D20.5-H7.5-P5	1.0F, 5.5V, 70°C	IEC 60950-1	Tested with appliance
Or	Shenzhen XIA XINGRONG Electronic Technology Co., Ltd	CE5E5105CF	1.0F, 5.5V, 70°C	IEC 60950-1	Tested with appliance
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					

1.5.1	TABLE: Opto Electronic Devices	P
Manufacturer.....	--	
Type.....	--	
Separately tested.....	--	
Bridging insulation	--	
External creepage distance	--	
Internal creepage distance	--	
Distance through insulation	--	
Tested under the following conditions	--	
Input	--	
Output	--	
Supplementary information: evaluated in the test report of power supply		

1.6.2	TABLE: Electrical data (in normal conditions)					P
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status
The EUT playing three vertical bar signal, to deliver 1/8 of max. non-clipped output power for two 8 ohm speakers, with max. brightness level, two USB2.0 ports loading 0.5A for each, OPS port loading 90W(18Vdc).						
90Vac 50Hz	2.269	--	202.1	FP1, F1	2.269	HDMI mode

IEC 60950-1							
Clause	Requirement + Test					Result - Remark	Verdict
100Vac 50Hz	2.043	2.5	201.1	FP1, F1	2.043		
240Vac 50Hz	0.917	2.5	197.9	FP1, F1	0.917		
264Vac 50Hz	0.846	--	197.6	FP1, F1	0.846		
90Vac 60Hz	2.272	--	202.3	FP1, F1	2.272		
100Vac 60Hz	2.047	2.5	201.2	FP1, F1	2.047		
240Vac 60Hz	0.960	2.5	198.2	FP1, F1	0.960		
264Vac 60Hz	0.864	--	198.1	FP1, F1	0.864		
90Vac 50Hz	2.291	--	203.7	FP1, F1	2.291	DP mode	
100Vac 50Hz	2.056	2.5	202.8	FP1, F1	2.056		
240Vac 50Hz	0.924	2.5	199.3	FP1, F1	0.924		
264Vac 50Hz	0.879	--	199.3	FP1, F1	0.879		
90Vac 60Hz	2.288	--	203.3	FP1, F1	2.288		
100Vac 60Hz	2.072	2.5	203.0	FP1, F1	2.072		
240Vac 60Hz	0.963	2.5	199.1	FP1, F1	0.963		
264Vac 60Hz	0.868	--	198.8	FP1, F1	0.868	VGA mode	
90Vac 50Hz	2.278	--	202.6	FP1, F1	2.278		
100Vac 50Hz	2.059	2.5	201.7	FP1, F1	2.059		
240Vac 50Hz	0.918	2.5	198.3	FP1, F1	0.918		
264Vac 50Hz	0.848	--	197.9	FP1, F1	0.848		
90Vac 60Hz	2.269	--	202.3	FP1, F1	2.269		
100Vac 60Hz	2.049	2.5	201.2	FP1, F1	2.049		
240Vac 60Hz	0.959	2.5	198.3	FP1, F1	0.959	USB mode	
264Vac 60Hz	0.864	--	197.9	FP1, F1	0.864		
90Vac 50Hz	2.211	--	201.6	FP1, F1	2.211		
100Vac 50Hz	2.049	2.5	201.4	FP1, F1	2.049		
240Vac 50Hz	0.915	2.5	198.8	FP1, F1	0.915		
264Vac 50Hz	0.831	--	198.7	FP1, F1	0.831		
90Vac 60Hz	2.231	--	201.8	FP1, F1	2.231		
100Vac 60Hz	2.055	2.5	201.5	FP1, F1	2.055	Network mode	
240Vac 60Hz	0.933	2.5	198.9	FP1, F1	0.933		
264Vac 60Hz	0.852	--	198.8	FP1, F1	0.852		
90Vac 50Hz	2.265	--	201.2	FP1, F1	2.265		
100Vac 50Hz	2.031	2.5	199.4	FP1, F1	2.031		
240Vac 50Hz	0.916	2.5	197.0	FP1, F1	0.916		
264Vac 50Hz	0.873	--	197.5	FP1, F1	0.873		
90Vac 60Hz	2.254	--	200.5	FP1, F1	2.254		

IEC 60950-1						
Clause	Requirement + Test				Result - Remark	Verdict
100Vac 60Hz	2.038	2.5	200.4	FP1, F1	2.038	
240Vac 60Hz	0.952	2.5	196.3	FP1, F1	0.952	
264Vac 60Hz	0.857	--	196.2	FP1, F1	0.857	
Supplementary information: --						

2.1.1.5 c) 1)	TABLE: max. V, A, VA test				P
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)	
USB1 port:					
5.0Vdc	0.5	5.12Vdc	2.95	12.0	
USB2 port:					
5.0Vdc	0.5	5.12Vdc	2.95	12.0	
Supplementary information:					

2.1.1.5 c) 2)	TABLE: stored energy		N/A
Capacitance C (μF)	Voltage U (V)	Energy E (J)	
--	--	--	
Supplementary information: --			

2.2	TABLE: evaluation of voltage limiting components in SELV circuits			P
Component (measured between)	Max. voltage (V) (normal operation)		Voltage Limiting Components	
	V peak	V d.c.		
--	--	--	--	
Fault test performed on voltage limiting components	Voltage measured (V) in SELV circuits (V peak or V d.c.)			
--	--			
Supplementary information: Evaluated in the test report of power supply				

2.5	TABLE: Limited power sources				P	
Circuit output tested:						
Note: Measured Uoc (V) with all load circuits disconnected:						
Components	Test condition (Single fault)	Uoc (V)	Isc (A)		VA	
			Meas.	Limit	Meas.	Limit
USB1 port	Normal	5.12Vdc	2.95	≤ 8A	12.0	≤ 100
	R1883 OC	5.10Vdc	2.95	≤ 8A	12.0	≤ 100
	R1883 SC	5.10Vdc	2.95	≤ 8A	12.0	≤ 100
	R1884 OC	5.10Vdc	2.95	≤ 8A	12.0	≤ 100

IEC 60950-1						
Clause	Requirement + Test	Result - Remark			Verdict	
	R1884 SC	5.10Vdc	2.95	≤ 8A	12.0	≤ 100
USB2 port	Normal	5.12Vdc	2.95	≤ 8A	12.0	≤ 100
	R1880 OC	5.10Vdc	2.95	≤ 8A	12.0	≤ 100
	R1880 SC	5.10Vdc	2.95	≤ 8A	12.0	≤ 100
	R1886 OC	5.10Vdc	2.95	≤ 8A	12.0	≤ 100
	R1886 SC	5.10Vdc	2.95	≤ 8A	12.0	≤ 100
IR-IN port	Normal	0	0	≤ 8A	0	≤ 100
	J6 pin14-20 SC	0	0	≤ 8A	0	≤ 100
HDMI-OUT port	Normal	0	0	≤ 8A	0	≤ 100
	D772 SC	0	0	≤ 8A	0	≤ 100
SPDIF port	Normal	0	0	≤ 8A	0	≤ 100
	R7 SC	0	0	≤ 8A	0	≤ 100
TOUCH-USB port	Normal	0	0	≤ 8A	0	≤ 100
	R2390 SC	0	0	≤ 8A	0	≤ 100
DP port	Normal	0	0	≤ 8A	0	≤ 100
	U27 pin3-4 SC	0	0	≤ 8A	0	≤ 100
HDMI1 port	Normal	0	0	≤ 8A	0	≤ 100
	R184 SC	0	0	≤ 8A	0	≤ 100
HDMI2 port	Normal	0	0	≤ 8A	0	≤ 100
	R814 SC	0	0	≤ 8A	0	≤ 100
VGA port	Normal	0	0	≤ 8A	0	≤ 100
	D152 SC	0	0	≤ 8A	0	≤ 100
PC-AUDIO port	Normal	0	0	≤ 8A	0	≤ 100
	U14 pin12-16 SC	0	0	≤ 8A	0	≤ 100
AUDIO-OUT port	Normal	0	0	≤ 8A	0	≤ 100
	C226 SC	0	0	≤ 8A	0	≤ 100
RS232 port	Normal	0	0	≤ 8A	0	≤ 100
	U21 pin8-16 SC	0	0	≤ 8A	0	≤ 100
LAN2 port	Normal	0	0	≤ 8A	0	≤ 100
	U702 pin1-16 SC	0	0	≤ 8A	0	≤ 100
LAN1 port	Normal	0	0	≤ 8A	0	≤ 100
	U703 pin1-16 SC	0	0	≤ 8A	0	≤ 100
Supplementary Information: SC=Short circuit, OC=Open circuit						

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.10.2	Table: working voltage measurement		P
Location	RMS voltage (V)	Peak voltage (V)	Comments
--	--	--	--
Supplementary information: Evaluated in the test report of power supply			

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements						P
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)	
Functional:							
Different polarity of AC mains before power supply	340	240	2.3	3.5	2.4	3.5	
Basic/supplementary:							
Primary live part and earthed metal enclosure	340	240	3.0	3.6	3.0	3.6	
LED backlight circuit and unearthed accessible panel surface	340	240	3.0	10.0	3.0	10.0	
Reinforced:							
Secondary lead wire and primary live part	340	240	6.0	10.0	6.0	10.0	
Supplementary information: 1) The distance on the power supply had been evaluated in the test report of power supply. 2) A multiplier factor (1.48) was used to consider the addition altitude requirement for clearance as the equipment was intend to be operated under altitude up to 5000m. 3) Internal all lead wires are connected to PCB by pluggable connector. 4) Mylar sheet with 250mm length by 175mm width is provided on the bottom of power supply (model MP135TL-2N33-K2). 5) Mylar sheet with 160mm length by 170mm width is provided on the bottom of power supply (model MP120DM-18).							

2.10.5	TABLE: Distance through insulation measurements					P
Distance through insulation (DTI) at/of:	U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)	
--	--	--	--	--	--	
Supplementary information: Evaluated in the test report of power supply						

4.3.8	TABLE: Batteries		N/A
The tests of 4.3.8 are applicable only when appropriate battery data is not available	See below.		N/A
Is it possible to install the battery in a reverse polarity position?	Customized connector used		N/A

IEC 60950-1									
Clause	Requirement + Test					Result - Remark			Verdict
	Non-rechargeable batteries			Rechargeable batteries					
	Discharging		Un-intentional charging	Charging		Discharging		Reversed charging	
	Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	--	--	--	--	--	--	--	--	--
Max. current during fault condition	--	--	--	--	--	--	--	--	--
Test results:									Verdict
- Chemical leaks						--			N/A
- Explosion of the battery						--			N/A
- Emission of flame or expulsion of molten metal						--			N/A
- Electric strength tests of equipment after completion of tests						--			N/A
Supplementary information: --									

4.3.8	TABLE: Batteries	N/A
Battery category.....	--	
Manufacturer.....	--	
Type / model	--	
Voltage.....	--	
Capacity.....	--	
Tested and Certified by (incl. Ref. No.)	--	
Circuit protection diagram:	--	

MARKINGS AND INSTRUCTIONS (1.7.13)	
Location of replaceable battery	--
Language(s)	--
Close to the battery	--
In the servicing instructions	--
In the operating instructions	--

4.5	TABLE: Thermal requirements					P
	Supply voltage (V)	90Vac / 50Hz ¹⁾		264Vac / 50Hz ¹⁾		—
	Ambient Tmin (°C)	--	--	--	--	—
	Ambient Tmax (°C)	--	--	--	--	—
Maximum measured temperature T of part/at:		T (°C)				Allowed T _{max} (°C)
Test direction		Horizontal direction				
Calculated value for T _{ma} :		--	40.0	--	40.0	--

IEC 60950-1					
Clause	Requirement + Test	Result - Remark			Verdict
Ambient temperature during test (Tamb):	25.1	--	25.0	--	--
AC inlet	30.8	45.7	30.4	45.4	70
AC input wire	37.9	52.8	37.0	52.0	105
For power supply board model: MP120DM-18					
AC connector (CN1)	44.9	59.8	39.3	54.3	85
CX1 body	45.2	60.1	38.8	53.8	100
CY1&CY2 body	59.8	74.7	47.4	62.4	125
FL1 winding	65.0	79.9	44.3	59.3	120
PCB near Q3&Q4	63.5	78.4	64.7	79.7	130
PCB near DP1	74.8	89.7	54.2	69.2	130
L1 winding	60.7	75.6	49.6	64.6	130
PCB near Q1	62.7	77.6	62.7	77.7	130
EC1 body	47.8	62.7	47.9	62.9	105
L3 winding	67.6	82.5	58.2	73.2	130
Transformer(T1) winding	70.5	85.4	73.7	88.7	110
Transformer(T1) core	63.9	78.8	67.1	82.1	110
CY3 body	55.3	70.2	54.3	69.3	125
PCB near U3	47.4	62.3	49.1	64.1	130
PCB near D3	69.0	83.9	71.0	86.0	130
PCB near D9	67.2	82.1	69.2	84.2	130
EC2 body	65.7	80.6	67.7	82.7	105
Mylar near Transformer (T1)	52.1	67.0	50.7	65.7	105
For power supply board model: MP135TL-2N33-K2					
AC connector (CN102)	40.5	55.4	38.6	53.6	85
LP4 winding	47.4	62.3	40.5	55.5	120
CY2 & CY3 body	40.4	55.3	39.9	54.9	125
CX1 body	41.5	56.4	38.8	53.8	100
LP6 winding	53.0	67.9	41.9	56.9	120
PCB near DP3	66.0	80.9	51.8	66.8	130
PCB near DP1	60.4	75.3	55.3	70.3	130
LP1 winding	68.6	83.5	62.9	77.9	120
PCB near DP2	71.6	86.5	79.8	94.8	130
PCB near QP1	71.0	85.9	81.5	96.5	130
CP2&CP3 body	50.3	65.2	50.9	65.9	105
PCB near QF4	59.5	74.4	62.0	77.0	130
PCB near QF12	64.6	79.5	68.4	83.4	130
Transformer (TF1) winding	59.2	74.1	63.5	78.5	110
Transformer (TF1) core	59.0	73.9	63.1	78.1	110
Transformer (TF2) winding	69.3	84.2	72.2	87.2	110

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict
Transformer (TF2) core	62.4	77.3	66.6	81.6	110
CY1 body	50.7	65.6	52.0	67.0	125
CY4 body	50.6	65.5	54.8	69.8	125
PCB near PF1	51.9	66.8	53.3	68.3	130
PCB near PF2	49.5	64.4	50.1	65.1	130
PCB near PF3	54.0	68.9	57.7	72.7	130
CF7 body	53.3	68.2	56.7	71.7	105
PCB near QF1&DF3	61.3	76.2	65.2	80.2	130
PCB near DB2	66.3	81.2	68.7	83.7	130
LB1 winding	64.6	79.5	69.8	84.8	120
PCB near QF1	53.9	68.8	57.1	72.1	130
Mylar sheet near Transformer (TF2)	53.3	68.2	56.8	71.8	105
For other part					
PCB near U1306 (main board)	44.8	59.7	48.3	63.3	105
C279 body (main board)	37.8	52.7	40.9	55.9	105
C91 body(main board)	38.4	53.3	41.4	56.4	105
PCB near UV3 (main board)	57.6	72.5	61.5	76.5	105
PCB near U1 (main board)	50.8	65.7	58.3	73.3	105
PCB near Q1&Q2 (OPS board)	35.8	50.7	37.0	52.0	105
CE2 body (OPS board)	36.1	51.0	37.2	52.2	105
PCB near U5 (OPS board)	32.9	47.8	34.3	49.3	105
PCB near U10 (OPS board)	57.7	72.6	58.4	73.4	105
Metallic enclosure outside near TF1	27.4	42.3	27.6	42.6	70
Switch	28.8	43.7	30.1	45.1	95
Metallic enclosure outside near TF2	33.2	48.1	32.1	47.1	70
Panel	31.0	45.9	30.9	45.9	70
Button	31.4	46.3	32.5	47.5	95
Test direction			Vertical direction		
Calculated value for Tma:	--	40.0	--	40.0	--
Ambient temperature during test (Tamb):	26.2	--	26.3	--	--
AC inlet	39.4	53.3	38.6	52.4	70
AC input wire	45.8	59.7	44.6	58.4	105
For power supply model: MP120DM-18					
AC connector (CN1)	59.5	73.4	51.2	65.0	85
CX1 body	60.1	74.0	53.3	67.1	100
CY1&CY2 body	63.0	76.9	55.8	69.6	125
FL1 winding	80.9	94.8	58.9	72.7	120

IEC 60950-1					
Clause	Requirement + Test	Result - Remark			Verdict
PCB near Q3&Q4	73.0	86.9	71.3	85.1	130
PCB near DP1	81.1	95.0	62.2	76.0	130
L1 winding	72.3	86.2	59.5	73.3	130
PCB near Q1	70.2	84.1	68.3	82.1	130
EC1 body	62.2	76.1	61.1	74.9	105
L3 winding	76.4	90.3	64.0	77.8	130
Transformer(T1) winding	83.3	97.2	82.9	96.7	110
Transformer(T1) core	77.8	91.7	77.2	91.0	110
CY3 body	59.8	73.7	58.7	72.5	125
PCB near U3	57.2	71.1	56.4	70.2	130
PCB near D3	71.0	84.9	71.0	84.8	130
PCB near D9	67.2	81.1	67.0	80.8	130
EC2 body	64.1	78.0	64.2	78.0	105
Mylar near Transformer (T1)	56.2	70.1	53.6	67.4	105
For power supply board model: MP135TL-2N33-K2					
AC connector (CN102)	48.5	62.4	45.5	59.3	85
LP4 winding	57.8	71.7	48.9	62.7	120
CY2 & CY3 body	50.6	64.5	46.9	60.7	125
CX1 body	51.7	65.6	47.7	61.5	100
LP6 winding	64.8	78.7	51.8	65.6	120
PCB near DP3	73.2	87.1	60.1	73.9	130
PCB near DP1	64.7	78.6	63.4	77.2	130
LP1 winding	73.7	87.6	69.4	83.2	120
PCB near DP2	73.4	87.3	81.9	95.7	130
PCB near QP1	72.5	86.4	82.3	96.1	130
CP2&CP3 body	56.2	70.1	55.9	69.7	105
PCB near QF4	61.1	75.0	61.7	75.5	130
PCB near QF12	62.7	76.6	63.5	77.3	130
Transformer (TF1) winding	62.7	76.6	63.4	77.2	110
Transformer (TF1) core	58.3	72.2	58.9	72.7	110
Transformer (TF2) winding	67.9	81.8	67.8	81.6	110
Transformer (TF2) core	62.1	76.0	62.2	76.0	110
CY1 body	53.7	67.6	54.2	68.0	125
CY4 body	45.6	59.5	46.0	59.8	125
PCB near PF1	51.3	65.2	51.8	65.6	130
PCB near PF2	48.3	62.2	48.8	62.6	130
PCB near PF3	51.4	65.3	51.9	65.7	130
CF7 body	56.9	70.8	57.3	71.1	105
PCB near QF1&DF3	62.5	76.4	62.9	76.7	130

IEC 60950-1							
Clause	Requirement + Test			Result - Remark			Verdict
PCB near DB2	60.7	74.6	60.9	74.7	130		
LB1 winding	64.5	78.4	64.9	78.7	120		
PCB near QF1	49.1	63.0	49.5	63.3	130		
Mylar sheet near Transformer (TF2)	52.2	66.1	52.1	65.9	105		
For other part							
PCB near U1306 (main board)	41.8	55.7	42.1	55.9	105		
C279 body (main board)	35.5	49.4	35.7	49.5	105		
C91 body(main board)	35.1	49.0	35.4	49.2	105		
PCB near UV3 (main board)	54.1	68.0	54.1	67.9	105		
PCB near U1 (main board)	53.9	67.8	53.1	66.9	105		
PCB near Q1&Q2 (OPS board)	43.0	56.9	42.6	56.4	105		
CE2 body (OPS board)	44.3	58.2	43.7	57.5	105		
PCB near U5 (OPS board)	42.6	56.5	42.1	55.9	105		
PCB near U10 (OPS board)	65.0	78.9	65.2	79.0	105		
Metallic enclosure outside near TF1	31.4	45.2	31.4	45.1	70		
Switch	34.3	48.1	34.2	47.9	95		
Metallic enclosure outside near TF2	31.4	45.2	31.9	45.6	70		
Panel	39.2	53.0	38.0	51.7	70		
Button	32.0	45.8	32.0	45.7	95		
Supplementary information: The EUT playing three vertical bar signal under DP model, to deliver 1/8 of max. non-clipped output power for two 8 ohm speakers, with max. brightness level, two USB2.0 ports loading 0.5A for each, OPS port loading 90W(18Vdc)							
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
--	--	--	--	--	--	--	--
Supplementary information:--							

4.5.5	TABLE: Ball pressure test of thermoplastic parts				P
	Allowed impression diameter (mm)			≤ 2 mm	—
Part			Test temperature (°C)	Impression diameter (mm)	
Pluggable connector material (CN101) (housing) / FR370(j)			125	1.4	
Supplementary information: Pluggable connector material (CN101) (locking header) had been evaluated in the test report of power supply					

4.7	TABLE: Resistance to fire					P
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence	
Metal enclosure	--	--	Refer to table 1.5.1	--	--	

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:--

5.1	TABLE: touch current measurement			P
Measured between:	Measured (mA)	Limit (mA)	Comments/conditions	
L/N and metal enclosure (earthed)	Max. 0.240mA	3.5	Input 264Vac 50Hz, normal working	
L/N and output terminal (unearthed)	Max. 0.006mA	0.25	Input 264Vac 50Hz, normal working	
L/N and output terminal (earthed)	Max. 0.240mA	3.5	Input 264Vac 50Hz, normal working	
L/N and panel with foil	Max. 0.003mA	0.25	Input 264Vac 50Hz, normal working	
Supplementary information: --				

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests			P
Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No	
Functional:				
Different polarity of AC mains (after fuse opened)	AC	1500	No	
Basic/supplementary:				
L/N and accessible terminal (earthed)	DC	2121	No	
L/N and metallic enclosure	DC	2121	No	
Mylar sheet ²⁾	AC	1500	No	
Reinforced:				
L/N and panel with foil	AC	3000	No	
L/N and accessible terminal (unearthed)	AC	3000	No	
Supplementary information:				
1) The test on the transformer had been evaluated in the test report of power supply.				
2) All source(Mylar sheet) have been considered				

5.3	TABLE: Fault condition tests					P
	Ambient temperature (°C)		25.0°C, if not separately specified			—
	Power source for EUT: Manufacturer, model/type, output rating		--			—
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation

IEC 60950-1						
Clause	Requirement + Test	Result - Remark			Verdict	
The EUT was working normally under DP mode:						
Speaker	Max. Non-clipped	264 Vac	2hrs 14mins	FP1, F1	0.905	The unit was working normally, no damaged, no hazard. TF1 coil: 82°C TF2 coil: 69.8°C T1 coil: 89.4°C Metallic enclosure outside near TF1: 32.8°C Metallic enclosure outside near TF2: 31.2°C Panel: 37.4°C Switch: 33.8°C, Button: 31.5°C Ambient: 25.9°C
Ventilation opening	Blocked	264Vac	3hrs 38mins	FP1, F1	0.879	The unit was working normally, no damaged, no hazard. TF1 coil: 77.7°C TF2 coil: 75.3°C T1 coil: 85.3°C Metallic enclosure outside near TF1: 30.7°C Metallic enclosure outside near TF2: 33.6°C Panel: 38.6°C Switch: 33.8°C, Button: 31.9°C Ambient: 26.3°C
USB2.0 port ¹⁾	Overload	264Vac	7hrs 10mins	FP1, F1	0.896	Max. load was max. 2.5A, the output shut down when load increased to 2.6A. No damage, no hazards. TF1 coil: 71.6°C TF2 coil: 71.8°C T1 coil: 84.1°C Metallic enclosure outside near TF1: 34.0°C Metallic enclosure outside near TF2: 31.9°C Panel: 38.3°C Switch: 35.0°C, Button: 31.9°C Ambient: 26.3°C

IEC 60950-1						
Clause	Requirement + Test				Result - Remark	Verdict
OPS port	Overload	264Vac	9hrs 18mins	FP1, F1	1.102	Max. overload was 153W, the EUT shut down when overload increased to 154W, no damaged, no hazard. TF1 coil: 66.6°C TF2 coil: 71.9°C T1 coil: 117.1°C Metallic enclosure outside near TF1: 33.6°C Metallic enclosure outside near TF2: 34.3°C Panel: 38.3°C Switch: 34.3°C, Button: 31.9°C Ambient: 26.3°C
Speaker output	SC	264 Vac	1hr 46mins	FP1, F1	0.895	The unit was working normally except speaker, no damaged, no hazards TF1 coil: 66.8°C TF2 coil: 69.6°C T1 coil: 83.2°C Metallic enclosure outside near TF1: 33.2°C Metallic enclosure outside near TF2: 31.3°C Panel: 37.4°C Switch: 34.2°C, Button: 31.4°C Ambient: 25.9°C
Transformer (T1) Pin 5/8-6/7 output after EC3	O/L	264Vac	10hrs 12mins	FP1, F1	1.124	Max. overload was 3.7A, the EUT shut down when overload increased to 3.8A, no damaged, no hazard. TF1 coil: 63.5°C TF2 coil: 69.9°C T1 coil: 121.1°C Metallic enclosure outside near TF1: 30.3°C Metallic enclosure outside near TF2: 31.3°C Panel: 35.7°C Switch: 39.2°C, Button: 31.8°C Ambient: 26.3°C

IEC 60950-1						
Clause	Requirement + Test				Result - Remark	Verdict
Transformer (TF2) Pin 1-4 output after CF27	O/L	264Vac	3hrs 27mins	FP1, F1	1.032	Max. overload was 0.3A, the EUT shut down when overload increased to 0.4A, no damaged, no hazard. TF1 coil: 63.3°C TF2 coil: 72.1°C T1 coil: 82.3°C Metallic enclosure outside near TF1: 32.6°C Metallic enclosure outside near TF2: 31.7°C Panel: 36.4°C Switch: 33.3°C, Button: 31.2°C Ambient: 25.8°C
Transformer (TF1) Pin 8-10 output after CF7	O/L	264Vac	3hrs 27mins	FP1, F1	1.092	Max. overload was 4.5A, the EUT shut down when overload increased to 4.6A, no damaged, no hazard. TF1 coil: 98.9°C TF2 coil: 69.8°C T1 coil: 82.9°C Metallic enclosure outside near TF1: 29.8°C Metallic enclosure outside near TF2: 31.7°C Panel: 37.0°C Switch: 33.9°C, Button: 31.7°C Ambient: 25.7°C
USB2.0 port ¹⁾	SC	264Vac	30 minutes	FP1, F1	0.864	The EUT was working normally except USB port output, input power decreased, no damaged, no hazards.
OPS port	SC	264 Vac	30 minutes	FP1, F1	0.439	The EUT was working normally except OPS port output, input power decreased, no damaged, no hazards.
VLED1+ to metal enclosure	SC	264Vac	30 minutes	FP1, F1	0.144	The unit was shut down, no damaged, no hazards.
VLED2+ to metal enclosure	SC	264Vac	30 minutes	FP1, F1	0.144	The unit was shut down, no damaged, no hazards.
VLED3+ to metal enclosure	SC	264Vac	30 minutes	FP1, F1	0.144	The unit was shut down, no damaged, no hazards.
Q451 pin1-3 (main board)	SC	264Vac	30 minutes	FP1, F1	0.657	The EUT was working normally, input power not changed, no damaged, no hazards.

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:

1) Two USB2.0 ports were evaluated respectively, same result was obtained

C.2	TABLE: transformers							P
Loc.	Tested insulation	Working voltage peak / V (2.10.2)	Working voltage rms / V (2.10.2)	Required electric strength (5.2)	Required clearance / mm (2.10.3)	Required creepage distance / mm (2.10.4)	Required distance thr. insul. (2.10.5)	
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Loc.	Tested insulation			Test voltage/ V	Measured clearance / mm	Measured creepage dist./ mm	Measured distance thr. insul. / mm; number of layers	
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Supplementary information:

All transformers on the power supply had been evaluated in the test report of power supply.

C.2	TABLE: transformers							P
All transformers on the power supply had been evaluated in the test report of power supply.								

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
2.4	TABLE: limited current circuit measurement		P
Location	Voltage (V)	Current (mA)	Comments
For power supply board model MP120DM-18			
CY1 secondary to earth	0.202	0.101	Limit 0.7mA*
CY2 secondary to earth	0.240	0.120	Limit 0.7mA*
CY3 secondary to earth	0.114	0.057	Limit 0.7mA*
CY1, CY2, CY3 secondary to earth	0.482	0.241	Limit 0.7mA*
For power supply model MP135TL-2N33-K2			
CY1 secondary to earth	0.08	0.040	Limit 0.7mA*
CY2 secondary to earth	0.05	0.025	Limit 0.7mA*
CY3 secondary to earth	0.03	0.015	Limit 0.7mA*
CY4 secondary to earth	0.09	0.045	Limit 0.7mA*
CY1, CY2, CY3, CY4 secondary to earth	0.20	0.100	Limit 0.7mA*
supplementary information: *use the measuring instruments of the Annex D			

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60950-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Information technology equipment – Safety – Part 1: General requirements	
Differences according to	EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013
Attachment Form No.	EU_GD_IEC60950_1G
Attachment Originator	SGS Fimko Ltd
Master Attachment	Date 2014-02
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EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013 – CENELEC COMMON MODIFICATIONS
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IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)			
Clause	Requirement + Test	Result - Remark	Verdict
	Clauses, subclauses, notes, tables and figures which are additional to those in IEC60950-1 and it's amendmets are prefixed "Z"		P
Contents (A2:2013)	Add the following annexes: Annex ZA (normative) Normative references to international publications with their corresponding European publications Annex ZB (normative) Special national conditions Annex ZD (informative) IEC and CENELEC code designations for flexible cords		P
General	Delete all the "country" notes in the reference document (IEC 60950-1:2005) according to the following list: 1.4.8 Note 2 1.5.1 Note 2 & 3 1.5.7.1 Note 1.5.8 Note 2 1.5.9.4 Note 1.7.2.1 Note 4, 5 & 6 2.2.3 Note 2.2.4 Note 2.3.2 Note 2.3.2.1 Note 2 2.3.4 Note 2 2.6.3.3 Note 2 & 3 2.7.1 Note 2.10.3.2 Note 2 2.10.5.13 Note 3 3.2.1.1 Note 3.2.4 Note 3. 2.5.1 Note 2 4.3.6 Note 1 & 2 4.7 Note 4 4.7.2.2 Note 4.7.3.1 Note 2 5.1.7.1 Note 3 & 4 5.3.7 Note 1 6 Note 2 & 5 6.1.2.1 Note 2 6.1.2.2 Note 6.2.2 Note 6.2.2.1 Note 2 6.2.2.2 Note 7.1 Note 3 7.2 Note 7.3 Note 1 & 2 G.2.1 Note 2 Annex H Note 2		P
General (A1:2010)	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A1:2010) according to the following list: 1.5.7.1 Note 6.1.2.1 Note 2 6.2.2.1 Note 2 EE.3 Note		P
General (A2:2013)	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A2:2013) according to the following list: 2.7.1 Note * 2.10.3.1 Note 2 6.2.2. Note * Note of secretary: Text of Common Modification remains unchanged.		P
1.1.1 (A1:2010)	Replace the text of NOTE 3 by the following. NOTE 3 The requirements of EN 60065 may also be used to meet safety requirements for multimedia equipment. See IEC Guide 112, Guide on the safety of multimedia equipment. For television sets EN 60065 applies.		P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
1.3.Z1	<p>Add the following subclause:</p> <p>1.3.Z1 Exposure to excessive sound pressure The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones.</p> <p>NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.</p>	Not such equipment	N/A
(A12:2011)	<p>In EN 60950-1:2006/A12:2011 Delete the addition of 1.3.Z1 / EN 60950-1:2006 Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010</p>	Deleted	P
1.5.1 (Added info*)	<p>Add the following NOTE:</p> <p>NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC. New Directive 2011/65/11 *</p>	Added	N/A
1.7.2.1 (A1:2010)	<p>In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss.</p>	Not such equipment	N/A
1.7.2.1 (A12:2011)	<p>In EN 60950-1:2006/A12:2011 Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the existing standard and amendments.</p>	Not such equipment	N/A
	Zx Protection against excessive sound pressure from personal music players		N/A
	<p>Zx.1 General This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players.</p> <p>A personal music player is a portable equipment for personal use, that:</p> <ul style="list-style-type: none"> – is designed to allow the user to listen to recorded or broadcast sound or video; and 	Not such equipment	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>– primarily uses headphones or earphones that can be worn in or on or around the ears; and</p> <p>– allows the user to walk around while in use.</p> <p>NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment.</p> <p>A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause.</p> <p>The requirements in this sub-clause are valid for music or video mode only.</p> <p>The requirements do not apply:</p> <p>– while the personal music player is connected to an external amplifier; or</p> <p>– while the headphones or earphones are not used.</p> <p>NOTE 2 An external amplifier is an amplifier which is not part of the personal music player or the listening device, but which is intended to play the music as a standalone music player.</p> <p>The requirements do not apply to:</p> <p>– hearing aid equipment and professional equipment;</p> <p>NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.</p>		
	<p>– analogue personal music players (personal music players without any kind of digital processing of the sound signal) that are brought to the market before the end of 2015.</p> <p>NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.</p> <p>For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.</p>	Not such equipment	N/A
	<p>Zx.2 Equipment requirements</p> <p>No safety provision is required for equipment that complies with the following:</p> <p>– equipment provided as a package (personal music player with its listening device), where the acoustic output $L_{Aeq,T}$ is ≤ 85 dBA measured while playing the fixed “programme simulation noise” as described in EN 50332-1; and</p> <p>– a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed “programme simulation noise” as described in EN 50332-1.</p>	Not such equipment	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level $L_{Aeq,T}$ is meant. See also Zx.5 and Annex Zx.</p> <p>All other equipment shall:</p> <p>a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and</p> <p>b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and</p>		
	<p>c) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time; and</p> <p>NOTE 2 Examples of means include visual or audible signals. Action from the user is always required.</p> <p>NOTE 3 The 20 h listening time is the accumulative listening time, independent how often and how long the personal music player has been switched off.</p> <p>d) have a warning as specified in Zx.3; and</p> <p>e) not exceed the following:</p> <p>1) equipment provided as a package (player with its listening device), the acoustic output shall be ≤ 100 dBA measured while playing the fixed "programme simulation noise" described in EN 50332-1; and</p> <p>2) a personal music player provided with an analogue electrical output socket for a listening device, the electrical output shall be ≤ 150 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" described in EN 50332-1.</p> <p>For music where the average sound pressure (long term $L_{Aeq,T}$) measured over the duration of the song is lower than the average produced by the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA. In this case T becomes the duration of the song.</p> <p>NOTE 4 Classical music typically has an average sound pressure (long term $L_{Aeq,T}$) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the song and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA.</p> <p>For example, if the player is set with the programme simulation noise to 85 dBA, but the average music level of the song is only 65 dBA, there is no need to give a warning or ask an</p>	Not such equipment	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dBA.		
	<p>Zx.3 Warning</p> <p>The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following:</p> <p style="padding-left: 40px;">the symbol of Figure 1 with a minimum height of 5 mm; and</p> <p style="padding-left: 40px;">the following wording, or similar:</p> <p>“To prevent possible hearing damage, do not listen at high volume levels for long periods.”</p> <div style="text-align: center;">  </div> <p>Figure 1 – Warning label (IEC 60417-6044)</p> <p>Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.</p>	Not such equipment	N/A
	Zx.4 Requirements for listening devices (headphones and earphones)		N/A
	<p>Zx.4.1 Wired listening devices with analogue input</p> <p>With 94 dBA sound pressure output LAeq,T, the input voltage of the fixed “programme simulation noise” described in EN 50332-2 shall be ≥ 75 mV.</p> <p>This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for example built-in volume level control).</p> <p>NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.</p>	Not such equipment	N/A
	<p>Zx.4.2 Wired listening devices with digital input</p> <p>With any playing device playing the fixed “programme simulation noise” described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level), the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA.</p> <p>This requirement is applicable in any mode where</p>	Not such equipment	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>the headphones can operate, including any available setting (for example built-in volume level control, additional sound feature like equalization, etc.).</p> <p>NOTE An example of a wired listening device with digital input is a USB headphone.</p>		
	<p>Zx.4.3 Wireless listening devices</p> <p>In wireless mode:</p> <ul style="list-style-type: none"> with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the abovementioned programme simulation noise, the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA. <p>NOTE An example of a wireless listening device is a Bluetooth headphone.</p>	Not such equipment	N/A
	<p>Zx.5 Measurement methods</p> <p>Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval T shall be 30 s.</p> <p>NOTE Test method for wireless equipment provided without listening device should be defined.</p>	Not such equipment	N/A
2.7.1	<p>Replace the subclause as follows:</p> <p>Basic requirements</p> <p>To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):</p> <ul style="list-style-type: none"> a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; 	Protective devices included as integral parts of the equipment	P
	<p>c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation</p>	Not such equipment	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.		
2.7.2	This subclause has been declared 'void'.		N/A
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	Deleted	N/A
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2". In Table 3B, replace the first four lines by the following: Up to and including 6 0,75 ^{a)} Over 6 up to and including 10 (0,75) ^{b)} 1,0 Over 10 up to and including 16 (1,0) ^{c)} 1,5 In the conditions applicable to Table 3B delete the words "in some countries" in condition ^{a)} . In NOTE 1, applicable to Table 3B, delete the second sentence.	Replaced	P
3.2.5.1 (A2:2013)	NOTE Z1 The harmonised code designations corresponding to the IEC cord types are given in Annex ZD		P
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following: Over 10 up to and including 16 1,5 to 2,5 1,5 to 4 Delete the fifth line: conductor sizes for 13 to 16 A	No wiring terminals	N/A
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to: 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artificial optical radiation).	Replaced	N/A
	Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.		N/A
Annex H	Replace the last paragraph of this annex by: At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level. Replace the notes as follows: NOTE These values appear in Directive	Replaced	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

	96/29/Euratom. Delete NOTE 2.		
Bibliography	Additional EN standards.		—

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS		—
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ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
1.2.4.1	In Denmark , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.	The manufacturer commits to fulfil the requirement when the product will be sold in Denmark.	P
1.2.13.14 (A11:2009)	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.	No such construction	N/A
1.5.7.1 (A11:2009)	In Finland, Norway and Sweden , resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resistor is used, the resistor must withstand the resistor test in 1.5.7.2.	No such components.	N/A
1.5.8	In Norway , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).	Class I equipment. Components connected between line and neutral/earth are certified components rated minimum 250V (for Norway)	P
1.5.9.4	In Finland, Norway and Sweden , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.	The EUT is not connected to telecommunication networks.	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.2.1	<p>In Finland, Norway and Sweden, CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.</p> <p>The marking text in the applicable countries shall be as follows:</p> <p>In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"</p> <p>In Norway: "Apparatet må tilkoples jordet stikkontakt"</p> <p>In Sweden: "Apparaten skall anslutas till jordat uttag"</p>	Not such equipment	N/A
1.7.2.1 (A11:2009)	<p>In Norway and Sweden, the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system.</p> <p>It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer.</p> <p>The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:</p> <p>"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)."</p>		

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>NOTE In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.</p> <p>Translation to Norwegian (the Swedish text will also be accepted in Norway): "Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplede utstyr – og er tilkoplede et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel-TV nettet." Translation to Swedish: "Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet."</p>	Not such equipment	N/A
1.7.2.1 (A2:2013)	<p>In Denmark, CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.</p> <p>The marking text in Denmark shall be as follows: In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord."</p>	The manufacturer commits to fulfil the requirement when the product will be sold in Denmark.	P
1.7.5 1.7.5 (A11:2009)	<p>In Denmark, socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.</p> <p>For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.</p>	No socket-outlet provided	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.5 (A2:2013)	<p>In Denmark, socket-outlets for providing power to other equipment shall be in accordance with the DS 60884-2-D1:2011.</p> <p>For class I equipment the following Standard Sheets are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exception for STATIONARY EQUIPMENT where the socket-outlets shall be in accordance with Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d or DK 1-5a.</p> <p>Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with by DS 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-3b.</p> <p>Justification the Heavy Current Regulations, 6c</p>	No socket-outlet provided	N/A
2.2.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	No TNV circuit	N/A
2.3.2	In Finland, Norway and Sweden there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.	No TNV circuit	N/A
2.3.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	No TNV circuit	N/A
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.	Considered	P
2.7.1	In the United Kingdom , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.	Not direct plug-in equipment	N/A
2.10.5.13	In Finland, Norway and Sweden , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.	No TNV circuit.	N/A
3.2.1.1	<p>In Switzerland, supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets:</p> <p>SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A</p>	The manufacturer commits to fulfil the requirement when the product will be sold in Switzerland.	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
	SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998: SEV 5932-2.1998: Plug Type 25 , 3L+N+PE 230/400 V, 16 A SEV 5933-2.1998: Plug Type 21, L+N, 250 V, 16A SEV 5934-2.1998: Plug Type 23, L+N+PE 250 V, 16 A	The manufacturer commits to fulfil the requirement when the product will be sold in Switzerland.	P
3.2.1.1	In Denmark , supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.	The manufacturer commits to fulfil the requirement when the product will be sold in Denmark.	P
3.2.1.1 (A2:2013)	In Denmark , supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. Justification the Heavy Current Regulations, 6c	The manufacturer commits to fulfil the requirement when the product will be sold in Denmark.	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
3.2.1.1	<p>In Spain, supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994.</p> <p>Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.</p> <p>CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994.</p> <p>If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.</p>	The manufacturer commits to fulfil the requirement when the product will be sold in Spain.	P
3.2.1.1	<p>In the United Kingdom, apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations.</p> <p>NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.</p>	The manufacturer commits to fulfil the requirement when the product will be sold in United Kingdom.	P
3.2.1.1	<p>In Ireland, apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.</p>	The manufacturer commits to fulfil the requirement when the product will be sold in Ireland	P
3.2.4	In Switzerland , for requirements see 3.2.1.1 of this annex.	Approved inlet used	P
3.2.5.1	In the United Kingdom , a power supply cord with conductor of 1,25 mm ² is allowed for equipment with a rated current over 10 A and up to and including 13 A.	No such power supply cord with conductor of 1,25 mm ² used	N/A
3.3.4	<p>In the United Kingdom, the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is:</p> <ul style="list-style-type: none"> • 1,25 mm² to 1,5 mm² nominal cross-sectional area. 	No such flexible cord with conductor of more than 1,25 mm ² used	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
4.3.6	In the United Kingdom , the torque test is performed using a socket outlet complying with BS 1363 part 1:1995, including Amendment 1:1997 and Amendment 2:2003 and the plug part of DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	Not direct plug-in equipment.	N/A
4.3.6	In Ireland , DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.	Not direct plug-in equipment.	N/A
5.1.7.1	In Finland, Norway and Sweden TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: <ul style="list-style-type: none"> • STATIONARY PLUGGABLE EQUIPMENT TYPE A that <ul style="list-style-type: none"> is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PERMANENTLY CONNECTED EQUIPMENT. 	Not exceeding 3,5 mA r.m.s	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
6.1.2.1 (A1:2010)	<p>In Finland, Norway and Sweden, add the following text between the first and second paragraph of the compliance clause:</p> <p>If this insulation is solid, including insulation forming part of a component, it shall at least consist of either</p> <ul style="list-style-type: none"> - two layers of thin sheet material, each of which shall pass the electric strength test below, or - one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. <p>Alternatively for components, there is no distance through insulation requirements for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition</p> <ul style="list-style-type: none"> - passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and - is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV. 	No TNV circuit.	N/A
	<p>It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).</p> <p>It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.</p> <p>A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:</p> <ul style="list-style-type: none"> - the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1; - the additional testing shall be performed on all the test specimens as described in EN 60384-14: - the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14. 	No TNV circuit.	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
6.1.2.2	In Finland, Norway and Sweden , the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.	No TNV circuit.	N/A
7.2	In Finland, Norway and Sweden , for requirements see 6.1.2.1 and 6.1.2.2 of this annex. The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.	Not connected to the cable distribution system.	N/A
7.3 (A11:2009)	In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.	Not connected to the cable distribution system.	N/A

IEC 60950_1G ATTACHMENT

Clause	Requirement + Test	Result - Remark	Verdict
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Annex ZD
(informative)

IEC and CENELEC code designations for flexible cords

Type of flexible cord	Code designations	
	IEC	CENELEC
PVC insulated cords		
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60277 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords		
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility		
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60950-1 (AUSTRALIA/NEW ZEALAND) NATIONAL DIFFERENCES (Information technology equipment-safety)			
Differences according to : AS/NZS 60950.1:2015			
TRF template used: : IEC EE OD-2020-F3, Ed. 1.1			
Attachment Form No. : AU_NZ_ND_IEC60950_1G			
Attachment Originator : JAS-ANZ			
Master Attachment : 2021-04-19			
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	National Differences		
Appendix ZZ	Variations to IEC 60950-1, Ed 2.2 (2013) for Australia and New Zealand		—
1.2	DEFINITIONS		P
1.2	After definition 'PERSON, SERVICE', insert the following new definition: POTENTIAL IGNITION SOURCE.....1.2.12.201	Added.	P
1.5	COMPONENTS		P
1.5.1	1. First paragraph, insert the following text after the words 'IEC component standard': 'or the relevant Australian/New Zealand Standard.' 2. In the Note, insert the following text after the word 'standard': 'or an Australian/New Zealand Standard.' 3. Second paragraph, delete the words 'without further evaluation'.	Added.	P
1.5.2	1. First paragraph, insert the following text after the word 'standard': 'or an Australian/New Zealand Standard.' 2. First paragraph, second dash item, second line, insert the following text after the word 'standard': 'or an Australian/New Zealand Standard.' 3. First paragraph, second dash item, last line, insert the following text after the word 'standard': 'or an Australian/New Zealand Standard.'	Added.	P
1.7	MARKINGS AND INSTRUCTIONS		P
1.7.1.3	Delete existing text and replace with the following: Graphical symbols placed on the equipment as a requirement of this standard, shall be in accordance with IEC 60417 or ISO 3864-2 or ISO 7000, if available. In the absence of suitable symbols, the manufacturer may design specific graphical symbols. Symbols as required by this standard placed on the equipment shall be explained in the user manual		P
2.9	ELECTRICAL INSULATION		P
2.9.2	Variation Second paragraph, delete the word 'designated'		P
3.2.5	POWER SUPPLY CORDS		P

IEC 60950_1G ATTACHMENT															
Clause	Requirement + Test	Result - Remark	Verdict												
Table 3B	Variation 1. Delete the first four rows and replace with the following: <table border="1" data-bbox="341 398 954 651"> <tr> <td>Over 0.2 up to and including 3</td> <td>0.5^a</td> <td>18 [0.8]</td> </tr> <tr> <td>Over 3 up to and including 7.5</td> <td>0.75</td> <td>16 [1.3]</td> </tr> <tr> <td>Over 7.5 up to including 10</td> <td>(0.75)^b 1.00</td> <td>16 [1.3]</td> </tr> <tr> <td>Over 10 up to including 16</td> <td>(1.0)^c 1.5</td> <td>14 [2]</td> </tr> </table>	Over 0.2 up to and including 3	0.5 ^a	18 [0.8]	Over 3 up to and including 7.5	0.75	16 [1.3]	Over 7.5 up to including 10	(0.75) ^b 1.00	16 [1.3]	Over 10 up to including 16	(1.0) ^c 1.5	14 [2]	Deleted and replaced	P
Over 0.2 up to and including 3	0.5 ^a	18 [0.8]													
Over 3 up to and including 7.5	0.75	16 [1.3]													
Over 7.5 up to including 10	(0.75) ^b 1.00	16 [1.3]													
Over 10 up to including 16	(1.0) ^c 1.5	14 [2]													
	2. Delete NOTE 1 and renumber existing NOTE 2 as 'NOTE'	Deleted	P												
	3. Delete Footnote a and replace with the following: a This nominal cross-sectional area is only allowed for Class II appliances if the length of the power supply cord, measured between the point where the cord, or cord guard, enters the appliance, and the to the plug does not exceed 2 m (0,5 mm ² three-core supply flexible cords are not permitted; see AS/NZS 3191)	Deleted	P												
4.3	DESIGN AND CONSTRUCTION		N/A												
4.3.6	Variation Delete the third paragraph and replace with the following:	Not direct plug-in equipment	N/A												
	Equipment with a plug portion, suitable for insertion into a 10 A 3-pin flat-pin socket-outlet complying with AS/NZS 3112 shall comply with the requirements in AS/NZS 3112 for equipment with integral pins for insertion into socket-outlets	Not direct plug-in equipment	N/A												
4.3.8	Addition Eighth paragraph, insert the following new note after the first dash item:	No such battery used	N/A												
	NOTE 6.201 In cases where the voltage source is provided by power from an unassociated power source, consideration should be given to the effects of possible single fault conditions in the unassociated equipment. If the power source is unknown then it should be assumed that the maximum limit of SELV may be applied to the source input under assumed single fault conditions in the source when assessing the charging circuit in the equipment under test.	No such battery used	N/A												
4.3.13.5.1	Variation Delete the first paragraph and replace with the following: Except as permitted below, equipment shall be classified and labelled according to IEC 60825-1 or AS/NZS 60825.1, IEC 60825-2 or AS/NZS 60825.2 and IEC 60825-12, as applicable	No lasers.	N/A												
	Third paragraph, first sentence, after 'IEC 60825-1', insert the following text: or AS/NZS 60825.1	No lasers.	N/A												

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	Fourth paragraph, after 'IEC 60825-1', insert the following text: or AS/NZS 60825.1	No lasers.	N/A
4.7	RESISTANCE TO FIRE		N/A
4.7	Addition At the end of Clause 4.7, insert the following text: For alternate tests refer to Clause 4.7.201	Insert	—
6	CONNECTION TO TELECOMMUNICATIONS NETWORKS		N/A
6.2.2	Variation For Australia only, delete the first paragraph and Note, and replace with the following: In Australia only, compliance with 6.2.2 shall be checked by the tests of both 6.2.2.1 and 6.2.2.2	No TNV circuit inside the EUT.	N/A
6.2.2.1	Variation For Australia only, delete the first paragraph including the Notes, and replace with the following: In Australia only, the electrical separation is subjected to 10 impulses of alternating polarity, using the impulse test generator Reference 1 of Table N.1. The interval between successive impulses is 60 s and the initial voltage, U_c , is: (i) for 6.2.1 a): 7.0 kV for hand-held telephones and for headsets and 2.5 kV for other equipment; and (ii) For 6.2.1 b) and 6.2.1 c): 1.5kV	No TNV circuit inside the EUT.	N/A
	NOTE 201 The 7 kV impulse simulates lightning surges on typical rural and semi-rural network lines	No TNV circuit inside the EUT.	N/A
	NOTE 202 The value of 2.5 kV for 6.2.1 a) was chosen to ensure the adequacy of the insulation concerned and does not necessarily simulate likely overvoltages	No TNV circuit inside the EUT.	N/A
6.2.2.2	Variation For Australia only, delete the second paragraph including the Note, and replace with the following: In Australia only, the a.c. test voltage is (i) for 6.2.1 a): 3kV; and (ii) for 6.2.1b) and 6.2.1c): 1.5kV	No TNV circuit inside the EUT.	N/A
	NOTE 201 Where there are capacitors across the insulation under test, it is recommended that d.c. test voltages are used.	No TNV circuit inside the EUT.	N/A
	NOTE 202 The 3 kV and 1.5 kV values have been determined considering the low frequency induced voltages from the power supply distribution system.	No TNV circuit inside the EUT.	N/A
7	CONNECTION TO CABLE DISTRIBUTION NETWORK		N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
7.3	Addition Add the following before the first paragraph: Equipment providing functions that fall only within the scope of AS/NZS 60065 and that incorporate a PSTN interface, are not required to comply with this Clause where the only ports provided on the equipment, in addition to a coaxial cable connection and a PSTN interface, are audio or video ports and analogue or data ports not intended to be used for telecommunications purposes	No PSTN interface inside the EUT.	N/A
Annex P	Addition Add the following Normative References: AS/NZS 3191, Electric flexible cords AS/NZS 3112, Approval and test specification—Plugs and socket-outlets	The manufacturer commits to fulfil the requirement when the product will be sold in Australia and New Zealand.	P
	<i>Special national conditions (if any)</i>		--
1.2.12	FLAMMABILITY		P
1.2.12.15	Addition After Clause 1.2.12.15, insert the following new clause:		P
1.2.12.201	POTENTIAL IGNITION SOURCE Possible fault which can start a fire if the open-circuit voltage measured across an interruption or faulty contact exceeds a value of 50 V (peak) a.c. or d.c. and the product of the peak value of this voltage and the measured r.m.s. current under normal operating conditions exceeds 15 VA	Considered	P
	Such a faulty contact or interruption in an electrical connection includes those which may occur in CONDUCTIVE PATTERNS on PRINTED BOARDS	Considered	P
	NOTE 1 An electronic protection circuit may be used to prevent such a fault from becoming a POTENTIAL IGNITION SOURCE	Considered	P
	NOTE 2 This definition is from AS/NZS 60065:2012, Clause 2.8.11.	Considered	P
4	PHYSICAL REQUIREMENTS		N/A
4.1	Addition After Clause 4.1, insert new Clause 4.1.201 as follows:	Added.	N/A
4.1.201	Display devices used for television purposes Display devices which may be used for television purposes, with a mass of 7 kg or more, shall comply with the requirements for stability and mechanical hazards, including the additional stability requirements for television receivers, specified in AS/NZS 60065	The EUT is used by mounting wall.	N/A
4.3	DESIGN AND CONSTRUCTION		N/A
4.3.8	Addition After Clause 4.3.8, add the following new clause as		N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	follows		
4.3.8.201	Products containing coin/button cell batteries and batteries designated R1 The requirements of AS/NZS 60065:2012 Amendment 1:2015, Clause 14.10.201 apply for this Clause.	No such battery used	N/A
4.7	RESISTANCE TO FIRE		N/A
4.7.3.6	Addition After Clause 4.7.3.6, add new clauses as follows:		N/A
4.7.201	Resistance to fire—Alternative tests		N/A
4.7.201.1	General Parts of non-metallic material shall be resistant to ignition and spread of fire. This requirement does not apply to decorative trims, knobs and other parts unlikely to be ignited or to propagate flames from inside the apparatus, or the following: a) Components that are contained in an enclosure having a flammability category of V-0 according to AS/NZS 60695.11.10 and having openings only for the connecting wires filling the openings completely, and for ventilation not exceeding 1 mm in width regardless of length.	Metallic enclosure used	N/A
	b) The following parts which would contribute negligible fuel to a fire: – small mechanical parts, the mass of which does not exceed 4 g, such as mounting parts, gears, cams, belts and bearings; – small electrical components, such as capacitors with a volume not exceeding 1,750 mm ³ , integrated circuits, transistors and optocoupler packages, if these components are mounted on material of flammability category V-1, or better, according to AS/NZS 60695.11.10	Metallic enclosure used	N/A
	NOTE In considering how to minimize propagation of fire and what 'small parts' are, account should be taken of the cumulative effect of small parts adjacent to each other for the possible effect of propagating the fire from one part to another	Metallic enclosure used	N/A
	Compliance shall be checked by the tests of 4.7.201.2, 4.7.201.3, 4.7.201.4 and 4.7.201.5	Metallic enclosure used	N/A
	For the base material of printed boards, compliance shall be checked by the test of 4.7.201.5	Metallic enclosure used	N/A
	The tests shall be carried out on parts of non-metallic material which have been removed from the apparatus. When the glow-wire test is carried out, the parts shall be placed in the same orientation as they would be in normal use. These tests are not carried out on internal wiring	Metallic enclosure used	N/A
4.7.201.2	Testing of non-metallic materials Parts of non-metallic material shall be subject to the glow-wire test of AS/NZS 60695.2.11 which shall be carried out at 550°C	Not used	N/A

IEC 60950_1G ATTACHMENT											
Clause	Requirement + Test	Result - Remark	Verdict								
	Parts for which the glow-wire test cannot be carried out, such as those made of soft or foamy material, shall meet the requirements specified in ISO 9772 for category FH-3 material. The glow-wire test shall be not carried out on parts of material classified at least FH-3 according to ISO 9772 provided that the sample tested was not thicker than the relevant part.										
4.7.201.3	<p>Testing of insulating materials</p> <p>Parts of insulating material supporting POTENTIAL IGNITION SOURCES shall be subject to the glow-wire test of AS/NZS 60695.2.11 which shall be carried out at 750°C.</p> <p>The test shall be also carried out on other parts of insulating material which are within a distance of 3 mm of the connection.</p> <p>NOTE Contacts in components such as switch contacts are considered to be connections.</p> <p>For parts which withstand the glow-wire test but produce a flame, other parts above the connection within the envelope of a vertical cylinder having a diameter of 20 mm and a height of 50 mm shall be subjected to the needle-flame test. However, parts shielded by a barrier which meets the needle-flame test shall not be tested.</p> <p>The needle-flame test shall be made in accordance with AS/NZS 60695.11.5 with the following modifications:</p>	Not used	N/A								
	<table border="1"> <thead> <tr> <th>Clause of AS/NZS 60695.11.5</th> <th>Change</th> </tr> </thead> <tbody> <tr> <td colspan="2">9 Test procedure</td> </tr> <tr> <td>9.2 Application of Needle-flame</td> <td>Delete the first and second paragraphs and replace with the following: The specimen shall be arranged so that the flame can be applied to a vertical or horizontal edge as shown in the examples of Figure 1. If possible the flame shall be applied at least 10 mm from a corner. The duration of application of the test flame shall be 30 s ± 1 s</td> </tr> <tr> <td>9.3 Number of test specimens</td> <td>Delete existing text and replace with the following: The test shall be made on one specimen. If the specimen does not</td> </tr> </tbody> </table>	Clause of AS/NZS 60695.11.5	Change	9 Test procedure		9.2 Application of Needle-flame	Delete the first and second paragraphs and replace with the following: The specimen shall be arranged so that the flame can be applied to a vertical or horizontal edge as shown in the examples of Figure 1. If possible the flame shall be applied at least 10 mm from a corner. The duration of application of the test flame shall be 30 s ± 1 s	9.3 Number of test specimens	Delete existing text and replace with the following: The test shall be made on one specimen. If the specimen does not	Not used	N/A
Clause of AS/NZS 60695.11.5	Change										
9 Test procedure											
9.2 Application of Needle-flame	Delete the first and second paragraphs and replace with the following: The specimen shall be arranged so that the flame can be applied to a vertical or horizontal edge as shown in the examples of Figure 1. If possible the flame shall be applied at least 10 mm from a corner. The duration of application of the test flame shall be 30 s ± 1 s										
9.3 Number of test specimens	Delete existing text and replace with the following: The test shall be made on one specimen. If the specimen does not										

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	withstand the test, the test may be repeated on two further specimens, both of which shall withstand the test.		
	11 Evaluation of test results Delete existing text and replace with the following: The duration of burning (tb) shall not exceed 30 s. However, for printed circuit boards, it shall not exceed 15s		
	The needle-flame test shall not be carried out on parts of material classified as V-0 or V-1 according to AS/NZS 60695.11.10, provided that the sample tested was not thicker than the relevant part	Not used	N/A
4.7.201.4	Testing in the event of non-extinguishing material If parts, other than enclosures, do not withstand the glow wire tests of 4.7.201.3 by failure to extinguish within 30 s after the removal of the glow-wire tip, the needle-flame test detailed in 4.7.201.3 shall be made on all parts of non-metallic material which are within a distance of 50 mm or which are likely to be impinged upon by flame during the tests of 4.7.201.3. Parts shielded by a separate barrier which meets the needle-flame test need not be tested.	Not used	N/A
	NOTE 1 If the enclosure does not withstand the glow-wire test the equipment is considered to have failed to meet the requirements of Clause 4.7.201 without the need for consequential testing.	Not used	N/A
	NOTE 2 If other parts do not withstand the glow-wire test due to ignition of the tissue paper and if this indicates that burning or glowing particles can fall onto an external surface underneath the equipment, the equipment is considered to have failed to meet the requirements of Clause 4.7.201 without the need for consequential testing	Not used	N/A
	NOTE 3 Parts likely to be impinged upon by the flame are considered to be those within the envelope of a vertical cylinder having a radius of 10 mm and a height equal to the height of the flame, positioned above the point of the material supporting, in contact with, or in close proximity to, connections.	Not used	N/A
4.7.201.5	Testing of printed boards The base material of printed boards shall be subjected to the needle-flame test of Clause 4.7.201.3. The flame shall be applied to the edge of the board where the heat sink effect is lowest when the board is positioned as in normal use. The flame shall not be applied to an edge, consisting of broken perforations, unless the edge is less than 3 mm from a POTENTIAL IGNITION SOURCE.	Not used	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>The test is not carried out if the</p> <ul style="list-style-type: none"> – Printed board does not carry any POTENTIAL IGNITION SOURCE; – Base material of printed boards, on which the available apparent power at a connection exceeds 15 VA operating at a voltage exceeding 50 V and equal or less than 400 V (peak) a.c. or d.c. under normal operating conditions, is of flammability category V-1 or better according to AS/NZS 60695.11.10, or the printed boards are protected by an enclosure meeting the flammability category V-0 according to AS/NZS 60695.11.10, or made of metal, having openings only for connecting wires which fill the openings completely; or – Base material of printed boards, on which the available apparatus power at a connection exceeds 15 VA operating at a voltage exceeding 400 V (peak) a.c. or d.c. under normal operating conditions, and base material of printed boards supporting spark gaps which provides protection against overvoltages, is of flammability category V-0 according to AS/NZS 60695.11.10 or the printed boards are contained in a metal enclosure, having openings only for connecting wires which fill the openings completely. <p>Compliance shall be determined using the smallest thickness of the material.</p>	Not used	N/A
	<p>NOTE Available apparent power is the maximum apparent power which can be drawn from the supplying circuit through a resistive load whose value is chosen to maximise the apparent power for more than 2 m when the circuit supplied is disconnected.</p>	Not used	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60950-1 with A1:2009 and A2:2013 CANADA NATIONAL DIFFERENCES Information technology equipment – Safety – Part 1: General requirements			
Differences according to : CAN/CSA-C22.2 No. 60950-1-07, Amd 1:2011, Amd 2:2014			
Attachment Form No. : CA_ND_IEC60950_1g			
Attachment Originator : CSA			
Master Attachment : Date (2015-05)			
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1.1.1	All equipment is to be designed to allow installation in accordance with 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, unless marked or otherwise identified, installation is allowed per the Standard for the Protection of Electronic Computer/Data-Processing Equipment, ANSI/NFPA 75.	Complied	P
1.1.2	Baby monitors are required to additionally comply with ASTM F2951, Consumer Safety Specification for Baby Monitors.	Not such equipment	N/A
1.4.14	For Pluggable Equipment Type A, the protection in the installation is assumed to be 20A.	Considered	P
1.5.5	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 CEC/NEC. For lengths 3.05 m or less, external interconnecting flexible cord and cable assemblies that are not types specified in the CEC are required to have special construction features and identification markings.	The manufacturer commits to fulfil the requirement when the product will be sold in Canada.	P
1.7.1	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. A voltage rating that exceeds an attachment plug cap rating is only permitted if it does not exceed the extreme operating conditions in Table 2 of CAN/CSA C22.2 No. 235, and if it is part of a range that extends into the Table 2 "Normal Operating Conditions." Likewise, a voltage rating shall not be lower than the specified "Normal Operating Conditions," unless it is part of a range that extends into the "Normal Operating Conditions."	Considered	P
1.7.7	Wiring terminals intended to supply Class 2 outputs in accordance with CEC Part 1 or NEC shall be marked with the voltage rating and "Class 2" or equivalent. Marking shall be located adjacent to the terminals and shall be visible during wiring.	No such terminal	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
2.5	Where a fuse is used to provide Class 2, Limited Power Source, or TNV current limiting, it shall not be operator-accessible unless it is not interchangeable.	No such device used	N/A
2.6.3.3	The first column on Table 2D modified to require, "Smaller of the RATED CURRENT of the equipment or the PROTECTIVE CURRENT RATING of the circuit under consideration."	Modified	P
2.7.1	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. Power distribution transformers distributing power at 100 volts or more, and rated 10 kVA or more, require special transformer overcurrent protection.	Protection in primary circuits against over currents provided as an integral part of the equipment.	P
3.2	Wiring methods (terminals, leads, etc.) used for the connection of the equipment to the mains shall be in accordance with the NEC/CEC.	The manufacturer commits to fulfil the requirement when the product will be sold in Canada.	P
3.2.1	Power supply cords are required to have attachment plugs rated not less than 125 percent of the rated current of the equipment.	The manufacturer commits to fulfil the requirement when the product will be sold in Canada.	P
3.2.1.2	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, is required to comply with special earthing, wiring, marking and installation instruction requirements.	The equipment is not for connection to a d.c. mains supply.	N/A
3.2.3	Permanent connection of equipment to the mains supply by a power supply cord is not permitted, except for certain equipment, such as ATMs.	Not permanently connected equipment.	N/A
3.2.5	Power supply cords are required to be no longer than 4.5 m in length. 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. Flexible power supply cords are required to be compatible with Article 400 of the NEC, and Tables 11 and 12 of the CEC.	The manufacturer commits to fulfil the requirement when the product will be sold in Canada.	P
3.2.9	Permanently connected equipment is required to have a suitable wiring compartment and wire bending space.	Not permanently connected equipment.	N/A
3.3	Wiring terminals and associated spacings for field wiring connections shall comply with CSA C22.2 No. 0.	No wiring terminals	N/A
3.3.3	Wire binding screws are not permitted to attach conductors larger than 10 AWG (5.3 mm ²).	No wiring terminals	N/A
3.3.4	Terminals for permanent wiring, including protective earthing terminals, are required to be suitable for Canadian/US wire gauge sizes, rated 125 percent of the equipment rating, and be specially marked when specified (1.7.7).	No wiring terminals	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
3.3.5	First column of Table 3E revised to require "Smaller of the RATED CURRENT of the equipment or the PROTECTIVE CURRENT RATING of the circuit under consideration."	No wiring terminals	N/A
3.4.2	Motor control devices are required for cord-connected equipment with a motor if the equipment is rated more than 12 A, or if the motor has a nominal voltage rating greater than 120 V, or is rated more than 1/3 hp (locked rotor current over 43 A).	No such device	N/A
3.4.8	Vertically-mounted disconnect switches and circuit breakers are required to have the "on" position indicated by the handle in the up position.	No such Vertically-mounted disconnect switches	N/A
3.4.11	For computer room applications, equipment with battery systems capable of supplying 750 VA for five minutes are required to have a battery disconnect means that may be connected to the computer room remote power-off circuit.	Not such equipment	N/A
4.3.12	The maximum quantity of flammable liquid stored in equipment is required to comply with NFPA 30.	No flammable liquids in the equipment.	N/A
4.3.13.5	Equipment with lasers is required to meet the Canadian Radiation Emitting Devices Act, REDR C1370 and/or Code of Federal Regulations 21 CFR 1040, as applicable.	No such devices.	N/A
4.7	For computer room applications, automated information storage systems with combustible media greater than 0.76 m ³ (27 cu ft) are required to have a provision for connection of either automatic sprinklers or a gaseous agent extinguishing system with an extended discharge.	Not such equipment	N/A
4.7.3.1	For computer 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) are required to have a flame spread rating of 50 or less. For other applications, enclosures with the same dimensions require a flame spread rating of 200 or less.	Not such equipment	N/A
	Non-metallic enclosures of equipment for use in spaces used for environmental air (plenums) are required to comply with UL 2043.	Not such equipment	N/A
Annex H	Equipment that produces ionizing radiation is required to comply with the Canadian Radiation Emitting Devices Act, REDR C1370 and/or Code of Federal Regulations, 21 CFR 1020, as applicable.	The equipment don't produces ionizing radiation	N/A
OTHER DIFFERENCES The following key national differences are based on requirements other than national regulatory requirements			—

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
1.5.1	Some components and materials associated with the risk of fire, electric shock, or personal injury are required to have component or material ratings in accordance with the applicable national (Canadian and/or U.S.) component or material standard requirements. These components include: attachment plugs, battery packs (rechargeable type, used with transportable equipment), cathode ray tubes, circuit breakers, communication circuit accessories, connectors (used for current interruption of non-LPS circuits), cord sets and power supply cords, direct plug-in equipment, enclosures (outdoor), flexible cords and cables, fuses (branch circuit), fuseholders, ground-fault current interrupters, industrial control equipment, insulating tape, interconnecting cables, lampholders, limit controls, printed wiring, protectors for communications circuits, receptacles, solid state controls, supplementary protectors, switches (including interlock switches), thermal cutoffs, thermostats, (multi-layer) transformer winding wire, transient voltage surge suppressors, tubing, wire connectors, and wire and cables.	The manufacturer commits to fulfil the requirement when the product will be sold in Canada.	P
1.6.1.2	A circuit for connection to the DC Mains Supply is classified as either a SELV Circuit, TNV-2 Circuit or Hazardous Voltage Circuit depending on the maximum operating voltage of the supply. This maximum operating voltage shall include consideration of the battery charging "float voltage" associated with the intended supply system, regardless of the marked power rating of the equipment.	The equipment is not for connection to d.c. mains supply.	N/A
2.3.1	For TNV-2 and TNV-3 circuits with other than ringing signals and with voltages exceeding 42.4 V _{peak} or 60 V _{d.c.} , the maximum acceptable current through a 2000 ohm resistor (or greater) connected across the voltage source with other loads disconnected is 7.1 mA peak or 30 mA d.c. under normal operating conditions.	No TNV circuit	N/A
2.3.2.1	In the event of a single fault between TNV and SELV circuits, the limits of 2.2.3 apply to SELV Circuits and accessible conductive parts.	No TNV circuit	N/A
2.6.2	Equipment with functional earthing is required to be marked with the functional earthing symbol (IEC 60417-6092).	No functional earthing	N/A
2.6.3.4	Protective bonding conductors of non-standard protective bonding constructions (e.g., printed circuit traces) may be subjected to the additional limited short circuit test conditions specified.	No such part	N/A
4.2.8.1	Enclosures around CRTs with a face diameter of 160 mm or more are required to reduce the risk of injury due to the implosion of the CRT.	No such device	N/A



IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
4.3.2	Equipment with handles is required to comply with special loading tests.	Two handles provided, applied force 369N for 1 minute on each handle and no damage after test.	P
4.3.8	Battery packs for both portable and stationary applications are required to comply with special component requirements.	No such battery used	N/A
5.1.8.3	Equipment intended to receive telecommunication ringing signals is required to comply with a special touch current measurement tests.	Not connected to telecommunication networks.	N/A
5.3.7	Internal (e.g., card cage) SELV circuit connectors and printed wiring board connectors that are accessible to the operator and that deliver power are to be overloaded. During abnormal operating testing, if a circuit is interrupted by the opening of a component, the test shall be repeated twice (three tests total) using new components as necessary.	Complied	P
6.4	Equipment intended for connection to telecommunication network outside plant cable is required to be protected against overvoltage from power line crosses in accordance with 6.4 and Annex NAC.	Not connected to telecommunication networks.	N/A
Annex EE	Articulated accessibility probe (Fig EE.3) required for assessing accessibility to document/media shredders instead of the Figure 2A test finger.	Not such equipment	N/A
M.2	Continuous ringing signals up to 16 mA only are permitted if the equipment is subjected to special installation and performance restrictions.	No phone ringing is generated in the EUT.	N/A
Annex NAD	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.	Not such equipment	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO NATIONAL DIFFERENCE			
National differences of Switzerland IEC 60950-1, 2nd edition (See also group differences)			—
1.5.1	Ordinance on environmentally hazardous substances SR 814.081, Annex 1.7, Mercury - Annex 1.7 of SR 814.81 applies for mercury. Switches containing mercury such as thermostats, relays and level controllers are not allowed.	No such device	N/A
1.7.13	Ordinance on chemical hazardous risk reduction SR 814.81, Annex 2.15 Batteries Annex 2.15 of SR 814.81 applies for batteries containing cadmium and mercury. Note: Ordinance relating to environmentally hazardous substances, SR 814.013 of 1986-06-09 is not longer in force and superseded by SR 814.81 of 2009-02-01 (ChemRRV).	No such battery used	N/A
3.2	Supply cords of portable electrical appliances having a rated current not exceeding 10 A shall be provided with a plug complying with IEC 60884-1(3.ed.) + am1, SEV 1011 and one of the following dimension sheets: - SEV 6533-2:2009 Plug type 11, L + N, 250V 10A - SEV 6534-2:2009 Plug type 12, L + N + PE, 250V 10A - SEV 6532-2:2009 Plug type 15, 3L + N + PE, 250/400V 10A Supply cords of portable electrical appliances having a rated current not exceeding 16 A shall be provided with a plug complying with IEC 60884-1(3.ed.) + am1, SEV 1011 and one of the following dimension sheets: - SEV 5933-2:2009 Plug type 21 L + N, 250 V, 16A - SEV 5934-2:2009 Plug type 23 L + N + PE, 250 V, 16A - SEV 5932-2:2009 Plug type 25 3L + N + PE, 250/400V 16A NOTE 16 A plugs are not often used in Swiss domestic installation system. See TRF template regulatory requirements Switzerland on IECEE Website R.R. TRF templates.	The manufacturer commits to fulfil the requirement when the product will be sold in Switzerland.	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO NATIONAL DIFFERENCE			
National differences of China IEC 60950-1, 2nd edition			--
1.1.2	Revise the third dashed paragraph as: — equipment intended to be used in vehicles, on board ships or aircraft, at altitudes greater than 5000m;	Revised	N/A
1.4.5	At the end of the third dashed paragraph ,added following paragraph: If the equipment is intended for direct connection to an AC mains supply, the tolerances on RATED VOLTAGE shall be taken as +10%,-10% unless a wider tolerance is declared by the manufacturer. Delete the contents which behind the first dash.	Considered	P
1.4.12.1	Tma in clause 1.4.12.1 amended as: Tma: is the maximum ambient temperature permitted by the manufacturer's specification, or 35°C, whichever is greater. And note 1: for equipment not to be operated at tropical climatic conditions, Tma: is the maximum ambient temperature permitted by the manufacturer's specification, or 25 °C, whichever is greater. Add note 2: for equipment is to be operated at 2000m-5000m above sea leave, its temperature test conditions and temperature limits are considered.	Considered	P
1.5.2	Add a note behind the first dash : A component used shall comply with related requirements corresponding altitude of 5000m.	The manufacturer commits to fulfil the requirement when the product will be sold in China.	P
1.7	Add one paragraph before the last paragraph: The required marking and instruction should be given in normative Chinese unless otherwise specified.	The manufacturer commits to fulfil the requirement when the product will be sold in China.	P
1.7.1	Based on the AC mains supply of China, the RATED VOLTAGE should be 220V (single phase) or 380V (three-phases) for single rated voltage, for RATED VOLTAGE RANGE, it should cover 220V or 380V (three-phases), for multiple RATED VOLTAGES, one of them should be 220V or 380V (three-phases) and set on 220V or 380V (three-phases) when manufactured. And the RATED FREQUENCY or RATED FREQUENCY RANGE should be 50Hz or include 50Hz.	The EUT is operated at 100-240Vac voltage, 50/60Hz frequency, include the 220Vac 50Hz.	P

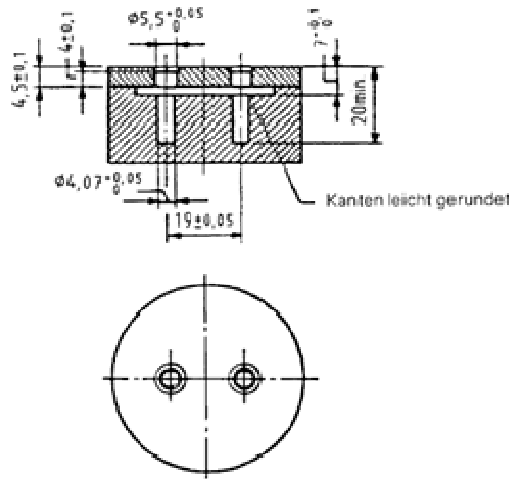
IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO NATIONAL DIFFERENCE			
1.7.2.1	<p>Add requirements of warning for equipment intended to be used at altitudes not exceeding 2000m or at non-tropical climate regions:</p> <p>For equipment intended to be used at altitude not exceeding 2000m, a warning label containing the following or a similar appropriate wording or a symbol as in annex DD shall fixed to the equipment at readily visible place.</p> <p>"Only used at altitude not exceeding 2000m."</p>  <p>If only symbol used, the explanation of the symbol shall be contained in the instruction manual.</p> <p>For equipment intended to be used in not-tropical climate regions, a warning label containing the following or a similar appropriate wording or a symbol as in annex DD shall fixed to the equipment at readily visible place.</p>  <p>"Only used in not-tropical climate regions."</p> <p>If only symbol used, the explanation of the symbol shall be contained in the instruction manual.</p> <p>The above statements shall be given in a language acceptable to the regions where the apparatus is intended to be used.</p>	Altitude up to 5000m considered	N/A
2.7.1	<p>Amended as:</p> <p>Protection in PRIMARY CIRCUITS against overcurrent short-circuits and earth faults shall be provided as an integral part of the equipment except special provisions. And the protective device shall meet the requirement of Clause 5.3.</p> <p>Delete note of Clause 2.7.1.</p>	Protection in primary circuits against over currents provided as an integral part of the equipment.	P
2.9	<p>Humidity conditioning</p> <p>This section applies for equipment to be operated at tropical climatic conditions, humidity conditioning dealt with tropical climatic conditions. For equipment not to be operated at tropical climatic conditions, its humidity conditioning complies with rules of CTL 624/07.</p>	Considered	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO NATIONAL DIFFERENCE			
2.9.2	<p>First section of Clause 2.9.2 amended as two sections:</p> <p>Where required by 2.9.1, 2.10.8.3, 2.10.10 or 2.10.11, humidity conditioning is conducted for 120 h in a cabinet or room containing air with ambient temperature $40\pm 2^{\circ}\text{C}$ and a relative humidity of $(93\pm 3)\%$. During this conditioning the component or subassembly is not energized.</p> <p>For equipment not to be operated at tropical climatic conditions, Where required by 2.9.1, 2.10.8.3, 2.10.10 or 2.10.11, humidity conditioning is conducted for 48 h in a cabinet or room containing air with a relative humidity of $(93\pm 3)\%$. The temperature of the air, at all places where samples can be located, is maintained within 2°C of any convenient value t between 20°C and 30°C such that condensation does not occur.</p> <p>Due to pretreatment of equipment operated at high altitude area is humidity conditioning withstand hot shock, specific requirements are to be considered.</p> <p>Add note: For equipment to be operated at 2000 m - 5000m above sea level, assessment and requirement of humidity conditioning for Insulation material properties are considered.</p>	Performed at 95% R.H., 40°C , for 120h	P
2.10.3.1	<p>Change the third paragraph of Clause 2.10.3.1 to be:</p> <p>These requirements apply for equipment to be operated up to 2000 m above sea level. For equipment to be operated at more than 2000 m above sea level and up to 5000m above sea level, the minimum CLEARANCE shall be multiplied by the factor 1.48 corresponding altitude of 5000m given in Table A.2 of GB/T 16935.1. For equipment to be operated at more than 5000 m above sea level, the minimum CLEARANCE shall be multiplied by the factor given in Table A.2 of GB/T 16935.1. Linear interpolation is permitted between the nearest two points in Table A.2. The calculated minimum CLEARANCE using this multiplication factor shall be rounded up to the next higher 0,1 mm increment.</p>	Considered	P
2.10.3.4	<p>Add a new section above Table 2K and in Clause 2.10.3.4: minimum CLEARANCES determined by above rules apply for equipment to be operated up to 2000m above sea level. For equipment to be operated at 2000 m - 5000m above sea level, the minimum CLEARANCE shall be multiplied by the factor 1.48 corresponding altitude of 5000m given in Table A.2 of GB/T 16935.1. For equipment to be operated at more than 5000 m above sea level, the minimum CLEARANCE shall be multiplied by the factor given in Table A.2 of GB/T 16935.1.</p> <p>Add "(apply for up to 2000m)" in header of Table 2K, 2L and 2M.</p>	Considered	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO NATIONAL DIFFERENCE			
3.2.1.1	Add on paragraph before the last paragraph: Plugs connected to AC mains supply shall comply with GB 1002 or GB 1003 or GB/T 11918 as applicable.	The manufacturer commits to fulfil the requirement when the product will be sold in China.	P
4.2.8	Clause 4.2.8 cathode ray tubes quoted Clause 18 of GB8898-2011. Delete note of Clause 4.2.8.	No such part	N/A
Annex E	Last section amended as: For comparison of winding temperatures determined by the resistance method of this annex with the temperature limits of Table 4B, 35 °C shall be added to the calculated temperature rise. And add note: for equipment not to be operated at tropical climatic conditions, 25 °C shall be added to the calculated temperature rise to compare with the temperature of Table 4B.		N/A
G.6	Change the second section of Clause G.6 to be: for equipment to be operated at 2000 m - 5000m above sea level, the minimum CLEARANCE shall be multiplied by the factor 1.48 corresponding altitude of 5000m given in Table A.2 of GB/T 16935.1. For equipment to be operated at more than 5000 m above sea level, the minimum CLEARANCE shall be multiplied by the factor given in Table A.2 of GB/T 16935.1. Linear interpolation is permitted between the nearest two points in Table A.2. The calculated minimum CLEARANCE using this multiplication factor shall be rounded up to the next higher 0,1 mm increment. A component that has been demonstrated to comply with National、 Industry standards or the relevant national standard shall be subjected to the applicable tests of this standard as part of the equipment.	Considered	P
Annex BB	Amended as : The differences between Chinese national standards GB 4943.1-2011 and GB 4943-2001.		P
Annex DD	Added annex DD: Instructions of the new safety warning labels.	The manufacturer commits to fulfil the requirement when the product will be sold in China.	P
Other amendments	In accordance with the relevant CTL decisions and the amendments of IEC 60950-1, the specific requirements or mistakes in IEC standard are corrected or editorially modified in this part, Including clause 1.7, 2.1.1.7, 2.9.2, Table 2H, Figure 2H, F.8, F.9, M.3 and Annex U.		P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO NATIONAL DIFFERENCE			
Quoting standards and reference documents	<p>The principles of quoting and referring to other standards in Annex P and reference documents of IEC 60950-1 are as follows:</p> <p>If the date of the reference document is given, only that edition applies, excluding any subsequent corrigenda and amendments. However, parties to agreements based on this part are encouraged to investigate the possibility of applying the most recent editions of the reference documents. For undated references, the latest edition of the referenced document applies, including any corrigenda and amendments.</p> <p>For the usage of international standards in Chinese national standards and industry standards is various, in the aim of achieving easy operation and based on the requirements of GB/T 1.1 and GB/T 20000.2, when quoting an entire international standard in the normative quoting files and reference documents of Annex P of this part, the principles of quotation are as follows:</p> <ul style="list-style-type: none"> - If there is no national standard or industry standard corresponding to the international standard, then the international standard is quoted; - If there is national standard or industry standard corresponding to the international standard, then either the national or industry standard is quoted; - If the date of the national standard or industry standard is not given, the latest edition of the standard applies; - The national standard or industry standard number, corresponding international standard number and the consistency level code should be identified in parentheses behind the listed national standard or industry standard. <p>When quoting several chapters or clauses of the international standard, the principles of quotation are as follows:</p> <ul style="list-style-type: none"> - If there is no national standard or industry standard corresponding to the international standard, then the international standard is quoted; - If there is national standard or industry standard corresponding to the international standard, then either the national or industry standard is quoted. <p>Meanwhile, in order to retain the relevant information on international standards, informative annex CC is increased, which gives the table about the comparison of the normative quoting files and reference documents in IEC 60950-1: 2005.</p>	Considered	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO NATIONAL DIFFERENCE			
National differences Germany IEC 60950-1, 2nd edition + Am 1			—
1.5	<p>The moulded plug of plug-in power supplies will be considered as component and will be generally evaluated in Germany according to DIN VDE 0620-1:2010 respectively DIN VDE 0620-1:2013 and DIN VDE 0620-2-1:2013</p> <p>After the test according to DIN VDE 0620-2-1:2013, sub-clause 24.2, the plug be shall still pass the test according to DIN VDE 0620-101:1992 clause 7, figure 2 "Gauge for interchangeability"</p> <p>It should be possible to insert the plug without applying an excessive force such that the end surface touches the surface of the gauge</p> 	Not such equipment	N/A
Annex ZC, cl. 1.7.2.1	<p>According to ProdSG, section 2, clause 4:</p> <p>If certain rules on the use, supplementation or maintenance of an item of technical work equipment or ready-to-use commodity must be observed in order to guarantee safety and health, instructions for use in German must be supplied when it is brought into circulation.</p>	The manufacturer commits to fulfil the requirement when the product will be sold in Germany.	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO NATIONAL DIFFERENCE			
National differences of the Denmark IEC 60950-1, 2nd edition (See also group differences)			—
General	The clauses in this test report form replaces all the clauses in Test Report Form No IECEN60950_1C that deals with Danish differences to IEC 60 950-1 2 nd Ed. (2005) i.e. the Danish differences in the sections ZB and ZC of Test Report Form No IECEN60950_1C are replaced by the clauses in this report form. The reason for the publication of this test report form is the publication of EN 60950-1/A11: 2009. The most significant difference introduced by that CENELEC amendment is the total deletion of all Danish A-deviations.		P
1.2.4.1	Certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets		P
1.7.5	Socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.		N/A
1.7.5	For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.		N/A
3.2.1.1	Supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.		P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO NATIONAL DIFFERENCE			
National differences Israel SI 60950 Part 1 (2015-11) IEC 60950-1 - Edition 2.2: 2013-05			—
1.6	Power interface	See below	P
1.6.1	AC Power distribution systems At the end of the clause, the following note shall be added: Note: In Israel, the clause is subject to the Electricity Law, 1954, Electricity Regulations (Earthings and protective means against electrification for voltages up to 1,000V), 1991, with their updates.	The manufacturer commits to fulfil the requirement when the product will be sold in Israel.	P
1.7	Markings and instructions	See below	P
1.7.1	Power rating At the beginning of the clause, subclause 1.7.201 shall be added as follows:	See below	P
1.7.201	Marking in the Hebrew language The marking in the Hebrew language shall be in accordance with the Consumer Protection Order (Marking of goods), 1983 In addition to the marking required by clause 1.7.1, the following details shall be marked in the Hebrew language. 1. Name of the apparatus and its commercial designation; 2. Manufacturer's name and his address. If the equipment is imported, also the importer's name and his address; 3. Manufacturer's registered trademark, if any; 4. Name of the model and serial number; 5. Country of manufacture. The details shall be marked on the apparatus or on its package, or on a label well attached to the apparatus or its packaging, by bonding or sewing, such that the label cannot be easily removed.	The manufacturer commits to fulfil the requirement when the product will be sold in Israel.	P
1.7.2	Safety instructions and marking	See below	P
1.7.2.1	General - The following shall be added at the end of the clause: All the instructions and all the warnings related to safety shall be written also in the Hebrew language. - At the end of clause 1, clause 1.201 shall be added as follows:	The manufacturer commits to fulfil the requirement when the product will be sold in Israel.	P
1.201	Power consumption in standby mode The equipment shall comply with the requirements of the Energy Sources Regulations (Maximum electrical power in standby mode for domestic and office electrical appliances), 2011, with a permitted deviation of up to 10 %.	The manufacturer commits to fulfil the requirement when the product will be sold in Israel.	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO NATIONAL DIFFERENCE			
2	Protection from hazards At the end of the clause, clause 2.201 shall be added as follows:	See below	P
2.201	Prevention of electromagnetic interferences	See below	P
2.201.1	Emission of electromagnetic interferences shall be tested in accordance with Israeli Standard SI 961 Part 6.1 or in accordance with the Israeli Standard that is an adoption of the International Standard CISPR 32. Note: At the time of writing this Standard, the Israeli Standard that is an adoption of the International Standard CISPR 32 is in preparation. Until publication of the Israeli Standard, the International Standard CISPR 32 may be used for testing the emission of electromagnetic interference. If the apparatus contains transmitters, it shall be tested according to Israeli Standard SI 961 Part 48.1 and according to another relevant part of the SI 961 Part 48 series or from the EN 301 489 series, according to the type of transmitter in the apparatus.	The manufacturer commits to fulfil the requirement when the product will be sold in Israel.	P
2.201.2	Immunity to emission of electromagnetic interference shall be tested in accordance with Israeli Standard SI 961 Part 6.2.	The manufacturer commits to fulfil the requirement when the product will be sold in Israel.	P
2.201.3	Emission of electromagnetic interference to the public electricity network shall be tested in accordance with the Israeli Standards SI 961 Parts 12.3 and 12.5 or in accordance with the Israeli Standards SI 61000 Part 3.12 and SI 961 Part 12.11, according to the current consumption of the equipment.	The manufacturer commits to fulfil the requirement when the product will be sold in Israel.	P
3	Wiring, connections and supply	See below	N/A
3.2	Connection to a mains supply	See below	P
3.2.1	Means of connection	See below	P
3.2.1.1	Connection to an a.c. mains supply After the NOTE, the following note shall be added: Note: In Israel, the supply plug shall comply with the requirements in Israel Standard. SI 32 Part1.1.	The manufacturer commits to fulfil the requirement when the product will be sold in Israel.	P

IEC 60950_1G ATTACHMENT

Clause	Requirement + Test	Result - Remark	Verdict
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ATTACHMENT TO NATIONAL DIFFERENCE

Annex P	- In place of some of the International Standards cited in the Standard and noted in this annex, the following Israeli Standards shall apply:		--
	The referenced International Standard	The substituted Israeli Standard or document	Comments
	IEC 60065: 2001 Amendment 1	SI 60065 – Audio, video and similar electronic apparatus – Safety requirements	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60065 – Edition 8.0: 2014-06
	IEC 60227-1: 2007	SI 60227 Part 1 – Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V: General requirements	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60227-1 – Edition 3.0: 2007-10
	IEC 60227-2: 1997 Amendment 1: 2003	SI 60227 Part 2 – Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V: Test methods	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60227-2 – Edition 2.1: 2003-04
	IEC 60245 (all parts)	SI 60245 (all parts) – Rubber insulated cables – Rated voltages up to and including 450/750 V	The Israeli Standard series, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard series IEC 60245 (all parts)
	IEC 60309 (all parts) ^(a)	SI 1109 Part 1 – Plugs, socket-outlets and couplers for industrial purposes: General requirements	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60309-1 – Fourth edition: 1999-02
		SI 1109 Part 2 – Plugs, socket-outlets and couplers for industrial purposes: Dimensional interchangeability requirements for pin and contact-tube accessories	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60309-2 – Fourth edition: 1999-4

IEC 60950_1G ATTACHMENT

Clause	Requirement + Test	Result - Remark	Verdict
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ATTACHMENT TO NATIONAL DIFFERENCE

The referenced International Standard	The substituted Israeli Standard or document	Comments	--
IEC 60317 (all parts) ^(a)	SI 1067 Part 1 – Enamelled ^(b) round copper wires with high mechanical properties	The Israeli Standard is identical to the International Electrotechnical Commission Standard IEC 317-1: 1980-02	
	SI 1067 Part 2 – Self-fluxing enamelled ^(b) round copper wires	The Israeli Standard is identical to the International Electrotechnical Commission Standard IEC 317-4: 1980-02	
	SI 1067 Part 3 – Enamelled ^(b) round copper wires with a temperature index of 180 °C	The Israeli Standard is identical to the International Electrotechnical Commission Standard IEC 317-8: 1980-02	
IEC 60320 (all parts) ^(a)	SI 60320 Part 1 – Appliance couplers for household and similar general purposes: General requirements	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60320-1 – Edition 2.1: 2007-11	
	SI 60320 Part 2.1 – Appliance couplers for household and similar general purposes: Sewing machine couplers	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60320-2-1 – Second edition: 2000-07	
	SI 60320 Part 2.2 – Appliance couplers for household and similar general purposes: Interconnection couplers for household and similar equipment	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60320-2-2 – Second edition: 1998-08	
	SI 60320 Part 2.3 – Appliance couplers for household and similar general purposes: appliance coupler with a degree of protection higher than IPX0	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60320-2-3 – First edition: 1998-09	
IEC 60364-1: 2001	Electricity Law, 1954, with its Regulations and updates	–	
IEC 60730-1: 1999 Amendment 1 (2003)	SI 60730 Part 1 – Automatic electrical controls: General requirements	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60730-1 – Edition 5.0: 2013-11	

IEC 60950_1G ATTACHMENT

Clause	Requirement + Test	Result - Remark	Verdict
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ATTACHMENT TO NATIONAL DIFFERENCE

The referenced International Standard	The substituted Israeli Standard or document	Comments	--
IEC 60825-1	SI 60825 Part 1 – Safety of laser products: Equipment classification and requirements	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60825-1 – Second edition: 2007-03	
IEC 60825-2	SI 60825 Part 2 – Safety of laser products: Safety of optical fibre communication systems (OFCS)	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60825-2 – Edition 3.2: 2010-12	
IEC 60825-12	SI 60825 Part 12 – Safety of laser products: Safety of free space optical communication systems used for transmission of information	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60825-12 – First edition: 2004-02	
IEC 60947-1: 2004	SI 60947 Part 1 – Low-voltage switchgear and controlgear: General rules	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60947-1 – Edition 5.0: 2007-06	
IEC 60998-1	SI 60998 Part 1 – Connecting devices for low-voltage circuits for household and similar purposes: General requirements	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60998-1 – Second edition: 2002-12	
IEC 60999-1	SI 60999 Part 1 – Connecting devices – Electrical copper conductors – Safety requirements for screw-type and screwless-type clamping units: General requirements and particular requirements for clamping units for conductors from 0.2 mm ² up to 35 mm ² (included)	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60999-1 – Second edition: 1999	
IEC 60999-2	SI 60999 Part 2 – Connecting devices – Electrical copper conductors – Safety requirements for screw-type and screwless-type clamping units: Particular requirements for clamping units for conductors above 35 mm ² up to 300 mm ² (included)	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 60999-2 – Second edition: 2003-05	

IEC 60950_1G ATTACHMENT

Clause	Requirement + Test	Result - Remark	Verdict
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ATTACHMENT TO NATIONAL DIFFERENCE


The referenced International Standard	The substituted Israeli Standard or document	Comments	--
IEC 61058-1: 2000	SI 61058 Part 1 – Switches for appliances: General requirements	The Israeli Standard, excluding national modifications and additions, is identical to the International Electrotechnical Commission Standard IEC 61058-1 – Edition 3.2: 2008-04	
IEC 62471: 2006	SI 62471 – Photobiological safety of lamps and lamp systems	The Israeli Standard is identical to the International Electrotechnical Commission Standard IEC 62471 (CIE S 009:2002) – First edition: 2006-07	
ISO 262	SI 876 – ISO general purpose metric screw thread: Basic dimension and selected sizes for screws	The Israeli Standard is based on the International Organization for Standardization publications ISO R 724 - 1968 ISO 262 - 1973	
ISO 3864 (all parts) ^(a)	SI 3864 Part 1 – Graphic symbols – Safety colours and safety signs: Design principles for safety signs in workplaces and public areas	The Israeli Standard, excluding national modifications and additions, is identical to the International Organization for Standardization Standard ISO 3864-1: First edition: 2002-05-15	
Notes:			
(a) In the International Standard series, there are parts not yet adopted as Israeli Standards. This table notes the existing Israeli Standards, and in the Comments column, the corresponding parts of the International Standard series.			
(b) Not relevant to the translation.			
- The following shall be added to the annex:			
Israeli Standards			
SI 32 Part 1.1	– Plugs and socket-outlets for household and similar purposes: Plugs and socket-outlets for single phase up to 16A – General requirements		
SI 961 Part 6.1	– Electromagnetic compatibility: Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement		
SI 961 Part 6.2	– Electromagnetic compatibility: Information technology equipment – Immunity characteristics – Limits and methods of measurement		
SI 961 Part 12.3	– Electromagnetic compatibility: Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)		
SI 961 Part 12.5	– Electromagnetic compatibility: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and subject to conditional connection		
SI 961 Part 12.11	– Electromagnetic compatibility: Limits – Limitation of voltage changes voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current ≤ 75 A and subject to conditional connection		
SI 961 Part 48 (all parts)	– Electromagnetic compatibility: Electromagnetic compatibility (EMC) for radio equipment and services		
SI 961 Part 48.1	– Electromagnetic compatibility: Electromagnetic compatibility (EMC) for radio equipment and services – Common technical requirements		
SI 61000 Part 3.12	– Electromagnetic compatibility: Limits – Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase		

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict


ATTACHMENT TO NATIONAL DIFFERENCE			
	<p>Israeli Laws, Regulations and documents</p> <p>Electricity Law, 1954, with its Regulations and updates</p> <p>Consumer Protection Order (Marking of goods), 1983, Kovetz HaTakanot 4465 dated 1983-02-24, with its updates</p> <p>Electricity Regulations (Earthings and protective means against electrification for voltages up to 1,000 V), 1991, with their updates</p> <p>Energy Sources Regulations (Maximum electrical power in standby mode for domestic and office electrical appliances), 2011, with its updates</p> <p>European Standards</p> <p>EN 301 489 (all parts) – Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services</p>		--

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT IEC 60950-1 with A1: 2009 and A2:2013 JAPAN NATIONAL DIFFERENCES Information technology equipment – Safety – Part 1: General requirements			
Differences according to : J60950-1 (H29)			
Attachment Form No. : JP_ND_IEC60950_1G			
Attachment Originator..... : JQA			
Master Attachment : 2017-11			
Copyright © 2017 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.			
	National Differences		--
1.2.4.1	Add the following new notes. Note: Even if the equipment is designed as Class I, the equipment is regarded as CLASS 0I EQUIPMENT (see 1.2.4.3A) when 2-pin adaptor with earthing lead wire or cord set having 2-pin plug with earthing lead wire is provided or recommended.	Class I equipment	P
1.2.4.3A	Add the following new clause. 1.2.4.3A CLASS 0I EQUIPMENT Equipment having attachment plug without earthing blade, where protection against electric shock is achieved by: - using BASIC INSULATION, and - providing either of the following a) or b) in order to connect those conductive parts that might assume a HAZARDOUS VOLTAGES in the event of BASIC INSULATION fault to the PROTECTIVE EARTHING CONDUCTOR in the building wiring. a) Provision of 2-pin plug with earthing lead including the condition of that 2-pin adaptor with earthing lead wire is provided or recommended. b) Provision of an independent earthing terminal, when 2-core mains cord (without earthing conductor) is used. Note – Class 0I equipment may have a part constructed with Double Insulation or Reinforced Insulation.	Added	N/A
1.3.2	Add the following notes after first paragraph: Note 1 Transportable or similar equipment that are relocated frequently for intended usage should not be designed as Class I or Class 0I equipment unless it is intended to be installed by service personnel. Note 2 Considering wiring circumstance in Japan, equipment intended to be installed where the provision for earthing connection is unlikely should not be designed as Class I or Class 0I equipment unless it is intended to be installed by service personnel.	The manufacturer commits to fulfil the requirement when the product will be sold in Japan.	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
1.5.1	<p>Replace the first paragraph with the follows:</p> <p>Where safety is involved, components shall comply either with the requirements of this standard, with the safety aspects of the relevant JIS component standard, or IEC component standards, or components shall have equivalent to or better properties than these.</p> <p>Replace Note 1 with the following:</p> <p>Note 1 Components complying with the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance is regarded to have equivalent to or better performance. Note 2 JIS or an IEC component standard is considered relevant only if the component in question clearly falls within its scope.</p> <p>Add the following after the last paragraph:</p> <p>For an appliance connector that is able to fit with appliance inlet compatible with the standard sheet of IEC 60320-1 or JIS C 8283-1, the size of the connector shall comply with relevant standard sheet of IEC 60320-1 or JIS C 8283-1. A power supply cord set complying with JIS C 8286 is regarded to comply with this requirement. Note 3 A power supply cord set provided with appliance connector that is able to fit with appliance inlet compatible with the standard sheet of IEC 60320-1 or JIS C 8283-1 should comply with JIS C 8286.</p>	Component complied with the relevant IEC standard.	P
1.5.2	<p>Add the following Note 2 after the 4th dashed paragraph:</p> <p>Note 2 See 1.7.5A when Type C.14 appliance coupler rated 10 A per JIS C 8283-1 is used with an equipment rated not more than 125 V and rated more than 10 A.</p>	Complied	P
1.5.5	<p>Add the following Note after the last paragraph:</p> <p>NOTE An interconnection cord sets provided with interconnecting coupler for mains supply complying with JIS C 8283-2-2 should comply with JIS C 8286.</p>	The manufacturer commits to fulfil the requirement when the product will be sold in Japan.	P
1.5.9.1	<p>Add the following in the last of NOTE 1.</p> <p>Gas discharge tube connected in series with VDR may be used.</p>	No such device used	N/A
1.7	<p>Replace EE.2 and EE.4 with the following:</p> <p>JA.1 Shredder warning JA.3 Shredder power disconnection</p>	See below	P
1.7.1.2	<p>Replace first and second dashed paragraphs with the followings:</p> <ul style="list-style-type: none"> - manufacturer's or responsible company's name or trade-mark or identification mark; - manufacturer's or responsible company's model identification or type reference; 	Complied	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.2.1	Add the following after the second paragraph. Instruction or equipment marking regarding safety shall be written in Japanese unless otherwise permitted in this standard.	The manufacturer commits to fulfil the requirement when the product will be sold in Japan.	P
1.7.2.5	Replace the last sentence with the following: An acceptable marking for an electric shock hazard  is (6.2.4 of JIS S 0101).	Replaced	N/A
1.7.5	Replace the second paragraph with the following. Socket-outlets conforming to JISC8282-1 are examples of standard power supply outlets.	No power outlet.	N/A
1.7.5A	Add the following new clause after 1.7.5. 1.7.5A Power supply cord set If appliance coupler according to IEC60320-1, C.14(rated current: 10A) is used in equipment whose rated voltage is less than 125V and rated current is over 10A, the following instruction or equivalent shall be described in the operating instruction. “ Use only designated cord set attached in this equipment” <i>Example in Japanese:</i> “この機器に同梱(組)した指定の電源コードセットだけを使用して下さい。” If appliance coupler is used for connection to the mains and if the cord set is not provided within the package for the equipment, suitable information regarding to the cord set shall be described in the operating instruction Note Since the combination of appliance inlet with earthing pin and two-core cord set (without earthing conductor) is special, the cord set should be attached in the equipment and the operating <i>instruction should provide the information that the cord set is exclusively used with the equipment and not allowed to use with other equipment.</i>	The manufacturer commits to fulfil the requirement when the product will be sold in Japan.	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.14A	<p>Add the following new clause after 1.7.14.</p> <p>1.7.14A Marking for CLASS 0I EQUIPMENT For CLASS 0I EQUIPMENT, the following or equivalent instructions shall be marked.</p> <p>- the following instruction shall be marked on the mains plug or on the visible place of the main body</p> <p>“Provide an earthing connection”</p> <p><i>Example in Japanese:</i> “必ず接地接続を行ってください。”</p> <p>- the following instruction shall be marked on the visible place of the main body or written in the operating instructions:</p> <p>“Provide an earthing connection before the mains plug is connected to the mains. And, when disconnecting the earthing connection, be sure to disconnect after pulling out the mains plug from the mains.”</p> <p><i>Example in Japanese:</i> 接地接続は必ず、電源プラグを電源につなぐ前に行ってください。 また、接地接続を外す場合は、必ず電源プラグを電源から切り離してから行ってください。</p>	Class I equipment	N/A
1.7.14B	<p>Add the following new clause after 1.7.14A</p> <p>1.7.14B Protective earthing conductor used for CLASS 0I EQUIPMENT</p> <p>For CLASS 0I EQUIPMENT provided with independent main protective earthing terminal, where the cord for the protective earthing connection is not provided within the package for the equipment, the suitable information for the protective earthing connection shall be provided in the operating instruction. (See 2.6.3.2)</p>	Class I equipment	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
2.1.1.1	<p>Replace item b) of 2.1.1.1 with the following.</p> <p>b) A test with the test finger, Figure 2A, which shall not contact parts described above when applied to openings in the ENCLOSURES after removal of parts that can be detached by an OPERATOR, including fuseholders, and with OPERATOR access doors and covers open. It is permitted to leave lamps in place for this test. Connectors that can be separated by an OPERATOR, other than those complying with JIS C 8303 or JIS C 8285 or IEC 60309 series or JIS C 8283 series or IEC 60320 series, shall also be tested during disconnection. But even if the connector does not comply with these standards, the one having equivalent to or better performance need not be tested during disconnection.</p> <p>Note 4 Connectors complying with Appendix 4 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance is regarded to have equivalent to or better performance.</p>	Complied	P
2.5	Replace "IEC 60730-1" with "JIS C 9730-1" (in item b)).	Replaced.	P
2.6.2	<p>Delete the following line.</p> <p>• the symbol , IEC 60417-5018 (2011-07);</p>	Deleted	N/A
2.6.3.2	<p>Add the following after the first paragraph.</p> <p>However where the single core conductor is used for protective earthing lead or earthing cord for CLASS 0I EQUIPMENT, either of the following condition shall be met.</p> <ul style="list-style-type: none"> - Use of annealed copper wire with 1.6 mm diameter or corrosion-inhibiting metal wire having equivalent to or more strength and thickness. - Single core cord or single core cable with 1.25 mm² or more cross-sectional area 	Class I equipment	N/A
2.6.3.5	<p>Add the following after the first paragraph.</p> <p>However this requirement does not apply to internal conductor of the cord set that is covered by the sheath of mains cord and is formed together with mains plug and appliance connector.</p>	Added.	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
2.6.4.2	<p>Replace the first paragraph with the following.</p> <p>Equipment required to have protective earthing shall have a main protective earthing terminal.</p> <p>For equipment with a DETACHABLE POWER SUPPLY CORD, the earthing terminal in the appliance inlet is regarded as the main protective earthing terminal. However, for CLASS 0I EQUIPMENT provided with the separate main protective earthing terminal other than appliance inlet, the separate main protective earthing terminal may be treated as mains protective earthing terminal.</p>	Approved appliance inlet used	P
2.6.5.4	<p>Replace the first sentence with the following.</p> <p>Protective earthing connections of CLASS I EQUIPMENT shall make earlier and break later than the supply connections in each of the following:</p> <p>Add the following after last paragraph: Note For CLASS 0I EQUIPMENT, 1.7.14A is applied instead of this requirement.</p>	Complied	P
2.6.5.8A	<p>Add the following new clause after 2.6.5.8</p> <p>2.6.5.8A Earthing of CLASS 0I EQUIPMENT Plugs with a lead wire for earthing shall not be used for equipment having a rated voltage exceeding 150V. For plugs with a lead wire for earthing, the lead wire shall not be earthed by a clip. CLASS 0I EQUIPMENT shall be provided with an earthing terminal or lead wire for earthing in the external location where easily visible.</p>	Added	N/A
2.7.6	<p>Replace "ISO 3864, No. 5036" with "6.2.4 of JIS S 0101".</p>	Replaced	N/A
2.10.3.1	<p>Replace the 8th paragraph with the following</p> <p>The above minimum CLEARANCE for connectors do not apply to connectors that comply with JIS C 8285, IEC60309 series of standards, JIS C 8283 series of standards, IEC60320 series of standards, JIS C 8303, or even if it does not comply with the above standards but the one having equivalent to or better performance and dimension which comply with JIS C 8283 series of standards, JIS C 8303 or IEC 60309-2.</p> <p>Note Connectors complying with Appendix 4 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance is regarded to have equivalent to or better performance.</p>	Replaced	P
2.10.3.2 Table 2J	<p>In Japan, the value of the main power supply transient voltage for the nominal ac main power supply voltage of 100 V is determined by applying the row of AC main power supply voltage 150 V.</p>	Considered	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
2.10.4.3	<p>Replace the 6th paragraph with the following</p> <p>The above minimum CREEPAGE DISTANCE for connectors do not apply to connectors that comply with JIS C 8285, IEC60309 series of standards, JIS C 8283 series of standards, IEC60320 series of standards, JIS C 8303, or even if it does not comply with the above standards but the one having equivalent to or better performance and dimension which comply with JIS C 8283 series of standards, JIS C 8303 or IEC 60309-2.</p> <p>Note Connectors complying with Appendix 4 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance is regarded to have equivalent to or better performance.</p>	Replaced	P
2.10.9	Replace "1.4.5" in 3rd paragraph with "1.4.12".	Replaced	N/A
3.2.3	<p>Add the following after the third paragraph.</p> <p>Table 3A applies when cables complying JIS C 3662 series of standards or JIS C 3663 series of standards are used. In case of other cables, cable entries shall be so designed that the cable could be fitted in a conduit.</p>	Added	N/A
3.2.4	<p>Add the following as 4th dashed paragraph.</p> <p>- be so constructed that mechanical stress shall not transmit to the soldering part of inlet terminal during insertion or removal of the connector except that the body of the inlet is secured and is secured not only soldering.</p>	Complied	P
3.2.5.1	<p>Add the following after Note 3:</p> <p>Note 4 In Japan, mains cords having equivalent to or better electro-mechanical and fire safety performance as above and complying with Appendix 1 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance can be used.</p> <p>Replace the paragraph after Note 3 with the following.</p> <p>For equipment required to have protective earthing, a PROTECTIVE EARTHING CONDUCTOR shall be included in the MAINS SUPPLY cord except for CLASS 0I EQUIPMENT having separate protective earthing conductor from mains cord.</p> <p>Add the following after the second paragraph after Note 3:</p> <p>Note 5 For the cross-sectional area of mains cord described in Note 4, relevant Japanese wiring regulation can be applied.</p>	The manufacturer commits to fulfil the requirement when the product will be sold in Japan	P


IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
3.2.5A	<p>Add the following new clause after 3.2.5</p> <p>3.2.5A AC mains plug Mains plug for PLUGGABLE EQUIPMENT TYPE A shall comply with JIS C 8282-1 or equivalent to or better performance. Power supply cord set complying with JIS C 8286 is regarded to meet the requirements. Mains plug with fuse link for PLUGGABLE EQUIPMENT TYPE A shall comply with JIS C 8282-2-1 or equivalent to or better performance.</p> <p>Note Mains plug complying with Appendix 4 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance is regarded to have equivalent to or better performance.</p>	The manufacturer commits to fulfil the requirement when the product will be sold in Japan	P
3.3.4 Table 3D	<p>Add the following note to Table 3D:</p> <p>Note For cables other than those complying with JIS C 3662 series of standards or JIS C 3663 series of standards, the terminals shall be suitable for the size of the intended cables.</p>	No such terminals	N/A
3.3.7	<p>Add the following after the first sentence:</p> <p>This requirement is not applicable to the external earthing terminal of CLASS 0I EQUIPMENT.</p>	No such terminals	N/A
4.2.8	<p>Add the following after the first paragraph:</p> <p>Note Intrinsically protected picture tube is required to comply with JIS C 6965 in clause 18 of JIS C 6065. No intrinsically protected picture tube which is out of scope of JIS C 6965 is required to test according to sub-clause 18.2 of JIS C 6065.</p>	No such device	N/A
4.3.4	<p>Add the following after the first sentence:</p> <p>This requirement also applies to those connections in CLASS 0I EQUIPMENT, where CLEARANCE or CREEPAGE DISTANCES over BASIC INSULATION would be reduced to less than the values specified in 2.10.</p>	Class I equipment.	N/A
4.3.5	<p>Replace the first dashed paragraph with the following.</p> <p>Within a manufacturer's unit or system, plugs and sockets likely to be used by the OPERATOR or by a SERVICE PERSON shall not be employed in a manner likely to create a hazard due to misconnection. In particular, connectors complying with IEC 60320/JIS C 8283 series of standards or JIS C 8303 or JIS C 8358 shall not be used for SELV CIRCUITS or TNV CIRCUITS. Keying, location or, in the case of connectors accessible only to a SERVICE PERSON, clear markings are permitted to meet the requirement.</p>	No such mismatch connection.	N/A
4.3.6	<p>Replace the 1st paragraph with the following</p> <p>DIRECT PLUG-IN EQUIPMENT shall not impose undue stress on the socket-outlet. The mains plug part shall comply with the standard for the relevant mains plug. (see 3.2.5A)</p>	Not such equipment	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
4.4.2	Replace the paragraph with the following: HOUSEHOLD AND HOME/OFFICE DOCUMENT/MEDIA SHREDDERS shall also comply with Annex JA.	Not such equipment	N/A
4.5.3	Add the following note to footnote b) of Table 4B: NOTE In case no data for the material is available, Appendix 4, 1. (1). b. 3 of the Interpretation on the Ministerial Ordinance stipulating Technical Specifications for Electrical Appliances is regarded as maximum temperature limit of the material.	Added.	P
5.1.3	Add a note after the first paragraph as follows: Note – Attention should be drawn to that majority of three-phase power system in Japan is of delta connection, and therefore, in that case, test is conducted using the test circuit from IEC 60990, figure 13.	Not three-phase power system	N/A

IEC 60950_1G ATTACHMENT					
Clause	Requirement + Test	Result - Remark	Verdict		
5.1.6	Replace Table 5A. as follows			P	
	Type of equipment	Terminal A of measuring instrument connected to:	Maximum TOUCH CURRENT mA r.m.s. ^a		Maximum PROTECTIVE CONDUCTOR CURRENT
	ALL equipment	Accessible parts and circuits not connected to protective earth ^b	0,25		-
	HAND-HELD	Main protective earthing terminal of CLASS I EQUIPMENT	0,75		-
		Main protective earthing terminal of CLASS 0 I EQUIPMENT	0,5		-
	MOVABLE (other than HAND_HELD, but including TRANSPORTABLE EQUIPMENT)	Main protective earthing terminal of CLASS I EQUIPMENT	3,5		-
		Main protective earthing terminal of CLASS 0 I EQUIPMENT	1.0		-
	STATIONARY, PLUGGABLE TYPE A	Main protective earthing terminal of CLASS I EQUIPMENT	3,5		-
		Main protective earthing terminal of CLASS 0 I EQUIPMENT	1,0		-
	ALL other STATIONARY EQUIPMENT - not subject to the conditions of 5.1.7 - subject to the conditions of 5.1.7	Main protective earthing terminal of CLASS I EQUIPMENT	3.5 -		- 5 % of input current
Main protective earthing terminal of CLASS 0 I EQUIPMENT		1.0 -	- -		
a If peak values of TOUCH CURRENT are measured, the maximum values are obtained by multiplying the r.m.s.values in the table by 1,414. b Some unearthed accessible parts are covered in 1.5.6 and 1.5.7 and the requirements of 2.4 apply. These may be different from those in 5.1.6.					
Annex G	Replace the paragraph before Table G.2 with the following The above minimum CREEPAGE DISTANCES for connectors do not apply to connectors that comply with JIS C 8285, IEC60309 series, JIS C 8283 series, IEC60320 series, JIS C 8303, and Appendix 4 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance in which dimension is comply with JIS C 8283 series, JIS C 8303 or IEC 60309-2.	Replaced.	N/A		

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
Annex V V.1	Replace "3.1.2" in the first line of V.1 with "312" in the first line.	Replaced.	P
Annex W W.1	Replace the third sentence in the first paragraph with the following: Floating circuits can exist in CLASS I EQUIPMENT, CLASS 0I EQUIPMENT and earthed circuits can exist in CLASS II EQUIPMENT.	Replaced.	N/A
Annex BB	This annex is not applicable.		N/A
Annex CC CC.2	Replace the third dashed paragraph with the following: <i>- 10 000 cycles of turning enable on and off with the input connected to a capacitor rated 425 uF ± 10 uF and shorting the output;</i>	Replaced.	N/A
CC.3	Add note at end of CC.3: Note: The fast blow fuse should be the one complying with JIS C 6575-2.	Added.	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
CC.4	<p>Replace the 2nd dashed paragraph with the following:</p> <p>- 10 000 cycles of turning enable on and off with a 100 $\Omega \pm 5 \Omega$ resistor and a 425 $\mu\text{F} \pm 10 \mu\text{F}$ capacitor in parallel with the output;</p> <p>Replace the 4th dashed paragraph with the following:</p> <p>- 10 000 cycles of turning enable on and off with the input connected to a capacitor rated 425 $\mu\text{F} \pm 10 \mu\text{F}$ and shorting the output;</p> <p>Replace the 5th dashed paragraph with the following:</p> <p>-10 000 cycles of turning the input pin on and off with a capacitor rated 425 $\mu\text{F} \pm 10 \mu\text{F}$ connected to the input supply while keeping enable active and shorting the output;</p> <p>Replace the 6th dashed paragraph with the following:</p> <p>-10 000 cycles of turning the input pin on and off with an ferrite-core inductor having 350 $\text{mH} \pm 10 \text{mH}$ inductance at 1 kHz and less than 1 Ω d.c. resistance connected to the input supply and return while keeping enable active and shorting the output;</p> <p>Replace the 10th dashed paragraph with the following:</p> <p>-3 cycles of exposing the device (not energized) to 70 $^{\circ}\text{C} \pm 2 ^{\circ}\text{C}$ for 24 h; followed by at least 1 h at room ambient; followed by at least 3 h at -30 $^{\circ}\text{C} \pm 2 ^{\circ}\text{C}$; followed by 3 h at room ambient;</p> <p>Replace the 11th dashed paragraph with the following:</p> <p>-10 cycles of exposing the device (while energized) to 50 $^{\circ}\text{C} \pm 2 ^{\circ}\text{C}$ for 10 min; followed by 10 min at 0 $^{\circ}\text{C} \pm 2 ^{\circ}\text{C}$ with a 5 min period of transition from one state to the other;</p>	Replaced	N/A
Annex EE	<p>Replace Annex EE with the following Annex JA.</p> <p style="text-align: center;">Annex JA (normative) Document shredding machines</p> <p>HOUSEHOLD AND HOME/OFFICE DOCUMENT/MEDIA SHREDDERS shall additionally comply with the requirements of this annex.</p>		N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>JA.1 Markings and instructions</p> <p>The symbol  (JIS S 0101:2000, 6.2.1) and the following precautions for use shall be marked on readily visible part adjacent to document feed opening. The marking shall be clearly legible, permanent, and easily discernible;</p> <ul style="list-style-type: none"> _ 子供が使用することによって、傷害などの危害が発生するおそれがある。; (that use by an infants/children may cause a hazard of injury etc.) _ 文書投入口に手を触れることによって、細断機構に引き込まれるおそれがある。; (that a hand can be drawn into the mechanical section for shredding when touching the document-slot) _ 文書投入口に衣類が触れることによって、細断機構に引き込まれるおそれがある。; (that clothing can be drawn into the mechanical section for shredding when touching the document-slot) _ 文書投入口に髪の毛が触れることによって、細断機構に引き込まれるおそれがある。; (that hairs can be drawn into the mechanical section for shredding when touching the document-slot) - in case of equipment incorporating a commutator motor, 可燃性ガスを噴射することによって引火又は爆発するおそれがある。 (that equipment may catch fire or explode by spraying of flammable gas.) <p>JA.2 Inadvertent reactivation</p> <p>Any safety interlock that can be operated by means of the test finger, Figure JA.1, is considered to be likely to cause inadvertent reactivation of the hazard.</p> <p>Compliance is checked by inspection and, where necessary, by a test with the test finger, Figure JA.1.</p> <p>JA.3 Disconnection from the mains supply</p> <p>Document shredding machines shall incorporate an isolating switch complying with sub-clause 3.4.2 as the device disconnecting the power of hazardous moving parts. For this switch, two-position (single-use) switch or multi-position (multifunction) switch (e.g., slide switch) may be used.</p> <p>If two-position switch, the positions for “ON” and “OFF” shall be indicated in accordance with sub-clause 1.7.8. If multi-position switch, the position for “OFF” shall be indicated in accordance with sub-clause 1.7.8 and other positions shall be indicated with proper terms or symbols.</p> <p>Compliance is checked by inspection.</p>		N/A

IEC 60950_1G ATTACHMENT

Clause	Requirement + Test	Result - Remark	Verdict
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JA.4 Protection against hazardous moving parts
 Any warning shall not be used instead of the structure for preventing access to hazardous moving parts.
 Document shredding machines shall comply with the following requirements.
 Insert the test finger, Figure JA.1, into all openings in MECHANICAL ENCLOSURES without applying appreciable force. It shall not be possible to touch hazardous moving parts with the test finger. This consideration applies to all sides of MECHANICAL ENCLOSURES when the equipment is mounted as intended. Before testing with the test finger, remove the parts detachable without a tool.
 Insert the wedge-probe, Figure JA.2, into the document-slot. And, against all directions of openings, if straight-cutting type, a force of 45 N shall apply to the probe, and 90 N if cross-cutting type. In this case, the weight of the probe is to be factored into the overall applied force. Before testing with the wedge-probe, remove the parts detachable without a tool. It shall not be possible to touch any hazardous moving parts, including the shredding roller or the mechanical section for shedding, with the probe.

N/A

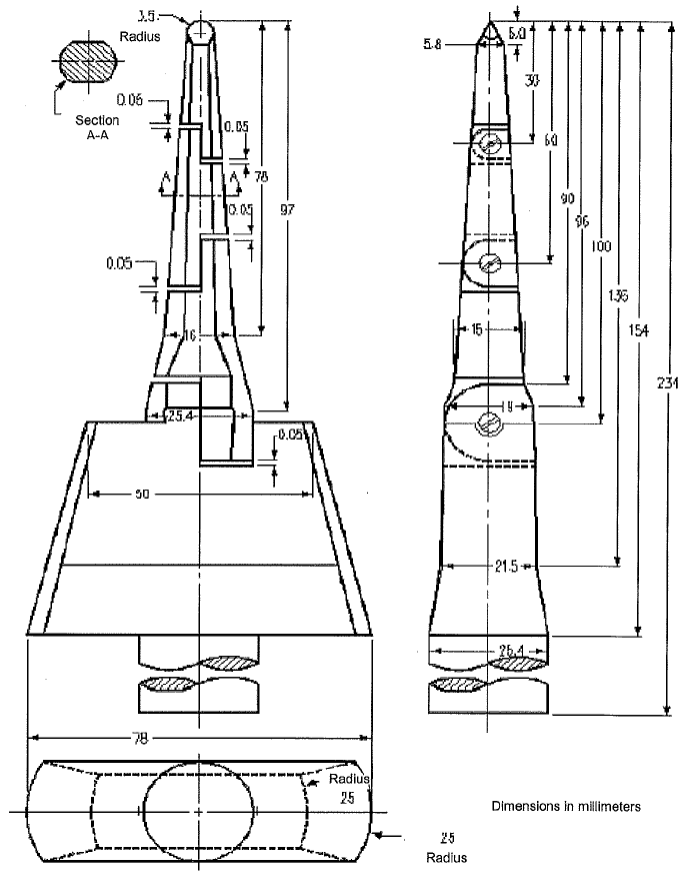
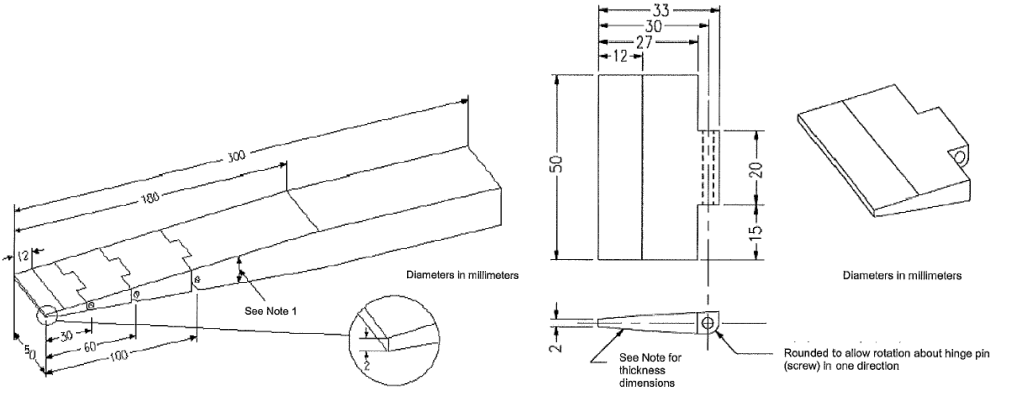


Figure JA.1 Test finger

IEC 60950_1G ATTACHMENT

Clause	Requirement + Test	Result - Remark	Verdict
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	 <p>(Details of the tip of wedge)</p> <table border="1" data-bbox="319 757 1257 896"> <thead> <tr> <th>Distance from the tip (mm)</th> <th>Thickness of probe (mm)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>2</td> </tr> <tr> <td>12</td> <td>4</td> </tr> <tr> <td>180</td> <td>24</td> </tr> </tbody> </table> <p>Note 1 - The thickness of the probe varies linearly, with slope changes at the respective points shown in the table. Note 2 - The allowable dimensional tolerance of the probe is; for ≤ 25 mm: ± 0.13 mm for > 25 mm: ± 0.3 mm.</p> <p style="text-align: center;">Figure JA.2 Wedge-probe</p>	Distance from the tip (mm)	Thickness of probe (mm)	0	2	12	4	180	24	<p>N/A</p>
Distance from the tip (mm)	Thickness of probe (mm)									
0	2									
12	4									
180	24									

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
J3000 (H25) Special National conditions, National deviation and other information according to MITI Ordinance No. 85.			—
1	General requirement When equipment provides with appliance inlet complying with JIS C 8283-1 (2008), soldered parts of appliance inlet is not applied by force during insert or removal of connector. This is not applied when inlet body is fixed itself and not fixed by solder.	Appliance inlet is fixed by adequate mechanical construction, not rely on soldering	P
2	Requirement for equipment	See below	N/A
2.1	Electric heater, and the matches that are connected in parallel to power regulation diode, and that there is no abnormality in a state of being opened diode 1. Compliance is checked by the following.	Not such equipment	N/A
	- Diode 1 has a rated capacity of more than the current of the main circuit, a diode which are connected in parallel, that this is the same specifications.	Not such equipment	N/A
	- When subjected to a temperature rise test as specified in 11 JIS C 9335-2-30 (2006) and uncoupled one of the diode connected in parallel, to conform thereto. "	Not such equipment	N/A
	In and an electric heating device, it can be in one that is connected in parallel rectifier connected to the power supply to adjust the power consumption, and that there is no abnormality in a state where the rectifier 1 is opened. Compliance is checked by the following.	Not such equipment	N/A
	- Rectifier 1 has a rated capacity of more than the current of the main circuit, rectifiers connected in parallel, that this is the same specifications.	Not such equipment	N/A
	- The Addition 11. JIS C 9335-1 (2003), when subjected to temperature rise test specified in the individual requirements of the application, can be adapted to this in uncoupled one of the rectifier connected in parallel. "	Not such equipment	N/A
2.2	Electronic heater with glowing heating elements	Not such equipment	N/A
	Surface treatment by paint or adhesive on protective frame or protective mesh shall not be used.	Not such equipment	N/A
	Caution marking like below shall be on -easily visible place of the equipment or -Instruction manual 「注意 当該機器から、使用初期段階で揮発性有機化合物及びカルボニル化合物が最も放散するおそれがあるため、その際には十分換気を行うこと。」	Not such equipment	N/A
3	Components used in equipment	Not such equipment	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
3.1	To be used for electric freezer Electric Cooling machines, electric washing machine, or electric refrigerator "	Not such equipment	N/A
	To be used for electricity Freezer hood, electric fan, electric cooling machines, electric washing machine, or electric refrigerator	Not such equipment	N/A
	Due to malfunction of the capacitor, which are housed to prevent the spread of flame or melt, the outer shell of metal or ceramic. However, the shell, there may be openings for connecting wires to the motor capacitor.	Not such equipment	N/A
	Due to malfunction of the capacitor, which are housed to prevent nucleic acid melt or flame, the outer metal or ceramic. However, the shell, there may be openings for connecting wires to the motor capacitor.	Not such equipment	N/A
	In this case, the expression "are housed in a ceramic shell or metal" is housed case ceramic (inner shell) metal or prevent the diffusion of the melt flame or means of the shell except the capacitor touches the test finger even if there to within 50mm of the capacitor is non-metallic section that refers to, housed along with capacitor not specified JIS C 4908 (2007) in the case of metal or ceramic thereof, and the melt or flame shall be deemed to prevent it from spreading.	Not such equipment	N/A
	No non-metallic materials within 50 mm from capacitor surface	Not such equipment	N/A
	Non-metallic material with 50 mm from capacitor surface comply with needle frame test of JIS 9335-1(2003), Annex E	Not such equipment	N/A
	Non-metallic material with 50 mm from capacitor surface comply with V-1 test of JIS C 60965-11-10(2006)	Not such equipment	N/A
3.2	Plug directly inserted to outlet used refrigerator or electric freezer. - Shall comply with - Face contact with outlet shall have CTI with more than 400 according to JIS C 2134(2007) or - Supporting material of blades shall comply with glow wire test by temperature of 750°C according to JIS C 60695-2-11(2004) or JIS C 60695-2-12(2004). Materials having glow wire frame temperature of 775°C are acceptable.	Not such equipment	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO NATIONAL DIFFERENCE			
National differences Korean IEC 60950-1, 2nd edition + Am 1			—
1.5.101	Plugs for the connection of the apparatus to the supply mains shall comply with the Korean requirement (KSC 8305).	The manufacturer commits to fulfil the requirement when the product will be sold in Korean.	P
8	EMC The apparatus shall comply with the relevant CISPR standards.	The manufacturer commits to fulfil the requirement when the product will be sold in Korean.	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

National differences for Saudi Arabia			
	Marking in Arabic or/and English	The manufacturer commits to fulfill the requirement when the product will be sold in Saudi Arabia	P
	Instructions shall be in Arabic and English	The manufacturer commits to fulfill the requirement when the product will be sold in Saudi Arabia	P
	Voltage input should including 220V or 380V	The EUT is operated at 100-240Vac voltage, it includes 220V	P
	Frequency input should including 60Hz	The EUT is operated at 50/60Hz frequency, it includes 50Hz	P
	Country of origin marked on the product	MADE IN CHINA	P
	Plugs shall comply with SASO 2203: 2018 / SASO 2204: 2003	The manufacturer commits to fulfill the requirement when the product will be sold in Saudi Arabia	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO NATIONAL DIFFERENCE			
National differences Ukraine IEC 60950, 3rd edition			
1.4.5	In Ukraine the NOMINAL VOLTAGE is 220 V for monophasic or 380 V for three-phase supply.	The EUT is operated at 100-240Vac voltage	P
1.5.8	In Ukraine the components connected between phase and earthing or between phase and neutral terminal shall be calculated for the voltage between phases.	No such component	N/A
1.7.2	In Ukraine for the APPARATUS of I CLASS the necessity of its obligatory earthing shall be indicated in the manuals.	The manufacturer commits to fulfil the requirement when the product will be sold in Ukraine.	P
2.3.3	In Ukraine the method b) is not used.		N/A
6.2.2	In Ukraine the both tests in 6.2.2.1 and 6.2.2.2 are applied.	No TNV circuit.	N/A
6.2.2.1	In Ukraine in 6.2.1 a) is used U _c 3,5 kV.	No TNV circuit.	N/A
6.2.2.2	In Ukraine in 6.2.1 a) is used 3,0 kV for telephones and headsets and 2,5 kV for other equipment and in 6.2.1 b) and c) is used 1,5 kV.	No TNV circuit.	N/A
Annex N	In Ukraine in 6.2.1 a) is used 3,0 kV for telephones and headsets and 2,5 kV for other equipment, and in 6.2.1 b) and c) is used 1,5 kV.	No TNV circuit.	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60950-1 with A1: 2009 and A2:2013 U.S.A. NATIONAL DIFFERENCES	
Information technology equipment – Safety – Part 1: General requirements	
Differences according to.....:	UL 60950-1-07(Second Edition) + A1: 2011 + A2: 2014
Attachment Form No.:	US_ND_IEC60950_1G
Attachment Originator.....:	UL
Master Attachment.....:	Date 2014-07
Copyright © 2014 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.	

	Special national conditions		--
1.1.1	All equipment is to be designed to allow installation in accordance with 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, unless marked or otherwise identified, installation is allowed per the Standard for the Protection of Electronic Computer/Data-Processing Equipment, ANSI/NFPA 75.	Complied	P
1.1.2	Baby monitors are required to additionally comply with ASTM F2951, Consumer Safety Specification for Baby Monitors.	Not such equipment	N/A
1.4.14	For Pluggable Equipment Type A, the protection in the installation is assumed to be 20A.	considered	P
1.5.5	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. For lengths 3.05 m or less, external interconnecting flexible cord and cable assemblies that are not types specified in the NEC are required to have special construction features and identification markings.	The manufacturer commits to fulfil the requirement when the product will be sold in United States of America	P
1.7.1	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. A voltage rating that exceeds an attachment plug cap rating is only permitted if it does not exceed the extreme operating conditions in Table 2 of CAN/CSA C22.2 No. 235, and if it is part of a range that extends into the Table 2 "Normal Operating Conditions." Likewise, a voltage rating shall not be lower than the specified "Normal Operating Conditions," unless it is part of a range that extends into the "Normal Operating Conditions."	Considered	P
1.7.7	Wiring terminals intended to supply Class 2 outputs in accordance with the NEC or CEC Part 1 shall be marked with the voltage rating and "Class 2" or equivalent. The marking shall be located adjacent to the terminals and shall be visible during wiring.	No such terminal	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
2.5	Where a fuse is used to provide Class 2, Limited Power Source, or TNV current limiting, it shall not be operator-accessible unless it is not interchangeable.	No such device used	N/A
2.6	Equipment with isolated ground (earthing) receptacles are required to comply with NEC 250.146(D) and CEC 10-112 and 10-906(8).	No such device	N/A
2.7.1	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. Power distribution transformers distributing power at 100 volts or more, and rated 10 kVA or more, require special transformer overcurrent protection.	Protection in primary circuits against over currents provided as an integral part of the equipment.	P
3.2	Wiring methods (terminals, leads, etc.) used for the connection of the equipment to the mains shall be in accordance with the NEC/CEC.	The manufacturer commits to fulfil the requirement when the product will be sold in United States of America	P
3.2.1	Power supply cords are required to have attachment plugs rated not less than 125 percent of the rated current of the equipment.	The manufacturer commits to fulfil the requirement when the product will be sold in United States of America	P
3.2.1.2	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, is required to comply with special earthing, wiring, marking and installation instruction requirements.	The equipment is not for connection to a d.c. mains supply.	N/A
3.2.3	Permanent connection of equipment to the mains supply by a power supply cord is not permitted, except for certain equipment, such as ATMs.	Not permanently connected equipment.	N/A
3.2.5	Power supply cords are required to be no longer than 4.5 m in length. 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. Flexible power supply cords are required to be compatible with Article 400 of the NEC, and Tables 11 & 12 of the CEC.	The manufacturer commits to fulfil the requirement when the product will be sold in United States of America	P
3.2.9	Permanently connected equipment is required to have a suitable wiring compartment and wire bending space.	Not permanently connected equipment.	N/A
3.3	Wiring terminals and associated spacings for field wiring connections shall comply with CSA C22.2 No. 0.	No wiring terminals	N/A
3.3.3	Wire binding screws are not permitted to attach conductors larger than 10 AWG (5.3 mm ²).	No wiring terminals	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
3.3.4	Terminals for permanent wiring, including protective earthing terminals, are required to be suitable for U.S./Canadian wire gauge sizes, rated 125 percent of the equipment rating, and be specially marked when specified (1.7.7).	No wiring terminals	N/A
3.3.5	First column of Table 3E revised to require "Smaller of the RATED CURRENT of the equipment or the PROTECTIVE CURRENT RATING of the circuit under consideration."	No wiring terminals	N/A
3.4.2	Motor control devices are required for cord-connected equipment with a motor if the equipment is rated more than 12 A, or if the motor has a nominal voltage rating greater than 120 V, or is rated more than 1/3 hp (locked rotor current over 43 A).	No such device	N/A
3.4.8	Vertically-mounted disconnect switches and circuit breakers are required to have the "on" position indicated by the handle in the up position.	No such Vertically-mounted disconnect switches	N/A
3.4.11	For computer room applications, equipment with battery systems capable of supplying 750 VA for five minutes are required to have a battery disconnect means that may be connected to the computer room remote power-off circuit.	Not such equipment	N/A
4.3.12	The maximum quantity of flammable liquid stored in equipment is required to comply with NFPA 30.	No flammable liquids in the equipment.	N/A
4.3.13.5.1	Equipment with lasers is required to meet the U.S. Code of Federal Regulations 21 CFR 1040 (and the Canadian Radiation Emitting Devices Act, REDR C1370).	No such devices.	N/A
4.7	For computer room applications, automated information storage systems with combustible media greater than 0.76 m ³ (27 cu ft) are required to have a provision for connection of either automatic sprinklers or a gaseous agent extinguishing system with an extended discharge.	Not such equipment	N/A
4.7.3.1	For computer 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) are required to have a flame spread rating of 50 or less. For other applications, enclosures with the same dimensions require a flame spread rating of 200 or less.	Not such equipment	N/A
4.7.3.1	Non-metallic enclosures of equipment for use in spaces used for environmental air (plenums) are required to comply with UL 2043.	Not such equipment	N/A
Annex H	Equipment that produces ionizing radiation is required to comply with the U.S. Code of Federal Regulations, 21 CFR 1020 (and the Canadian Radiation Emitting Devices Act, REDR C1370).	The equipment don't produces ionizing radiation	N/A
OTHER NATIONAL DIFFERENCES			—

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
1.5.1	Some components and materials associated with the risk of fire, electric shock, or personal injury are required to have component or material ratings in accordance with the applicable national (U.S. and Canadian) component or material requirements. These components include: attachment plugs, battery backup systems, battery packs, cathode ray tubes, circuit breakers, communication circuit accessories, connectors (used for current interruption of non-LPS circuits), cord sets and power supply cords, direct plug-in equipment, electrochemical capacitor modules (energy storage modules with ultracapacitors), enclosures (outdoor), flexible cords and cables, fuses (branch circuit), fuseholders, ground-fault current interrupters, industrial control equipment, insulating tape, interconnecting cables, lampholders, limit controls, printed wiring, protectors for communications circuits, receptacles, solid state controls, supplementary protectors, switches (including interlock switches), thermal cutoffs, thermostats, (multi-layer) transformer winding wire, surge protective devices, tubing, vehicle battery adapters, wire connectors, and wire and cables.	The manufacturer commits to fulfil the requirement when the product will be sold in United States of America	P
1.6.1.2	A circuit for connection to the DC Mains Supply is classified as a SELV Circuit, a TNV-2 Circuit or a Hazardous Voltage Circuit depending on the maximum operating voltage of the supply. This maximum operating voltage shall include consideration of the battery charging "float voltage" associated with the intended supply system, regardless of the marked power rating of the equipment.	The equipment is not for connection to d.c. mains supply.	N/A
2.3.1	For TNV-2 and TNV-3 circuits with other than ringing signals and with voltages exceeding 42.4 V _{peak} or 60 V _{d.c.} , the maximum acceptable current through a 2000 ohm resistor (or greater) connected across the voltage source with other loads disconnected is 7.1 mA peak or 30 mA d.c. under normal operating conditions.	No TNV circuit	N/A
2.3.2.1	In the event of a single fault between TNV and SELV circuits, the limits of 2.2.3 apply to SELV Circuits and accessible conductive parts.	No TNV circuit	N/A
2.6.2	Equipment with functional earthing is required to be marked with the functional earthing symbol (IEC 60417-6092).	No functional earthing	N/A
2.6.3.4	Protective bonding conductors of non-standard protective bonding constructions (e.g., printed circuit traces) may be subjected to the additional limited short circuit test conditions specified.	No such part	N/A
4.2.8.1	Enclosures around CRTs with a face diameter of 160 mm or more are required to reduce the risk of injury due to the implosion of the CRT.	No such device	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
4.3.2	Equipment with handles is required to comply with special loading tests.	Two handles provided, applied force 369N for 1 minute on each handle and no damage after test.	P
4.3.8	Battery packs for both portable and stationary applications are required to comply with special component requirements.	No such battery used	N/A
5.1.8.3	Equipment intended to receive telecommunication ringing signals is required to comply with a special touch current measurement tests.	Not connected to telecommunication networks.	N/A
5.3.7	Internal (e.g., card cage) SELV circuit connectors and printed wiring board connectors that are accessible to the operator and that deliver power are to be overloaded. During abnormal operating testing, if a circuit is interrupted by the opening of a component, the test shall be repeated twice (three tests total) using new components as necessary.	Complied	P
6.4	Equipment intended for connection to telecommunication network outside plant cable is required to be protected against overvoltage from power line crosses in accordance with 6.4 and Annex NAC.	Not connected to telecommunication networks.	N/A
Annex EE	UL articulated accessibility probe (Fig EE.3) required for assessing accessibility to document/media shredders instead of the Figure 2A test finger.	Not such equipment	N/A
Annex M.2	Continuous ringing signals up to 16 mA only are permitted if the equipment is subjected to special installation and performance restrictions.	No phone ringing is generated in the EUT.	N/A
Annex NAD	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.	Not such equipment	N/A

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT IEC 60950-1 SINGAPORE NATIONAL DIFFERENCES Information technology equipment – Safety – Part 1: General requirements			
Differences according to: Special National Conditions			
TRF template used: : IEC EE OD-2020-F3, Ed. 1.1			
Attachment Form No.: SG_ND_IEC60950_1G			
Attachment Originator: Intertek Testing Services (Singapore) Pte Ltd			
Master Attachment: 2021-07-16			
Copyright © 2021 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.			
	National Differences		--
Chapter 7	Special national conditions (if any) Controlled goods under Consumer Protection (Safety Requirements) Registration Scheme (CPS) are required to be tested to additional requirements stipulated by Enterprise Singapore in Chapter 7 of the CPS information booklet. The CPS information booklet is updated on an ongoing basis. At the point of testing, refer to the latest copy of the CPS information booklet for the minimum edition of standard to apply for testing of products under the CPS scheme and any new requirements. Link to CPS information booklet: https://www.consumerproductsafety.gov.sg/files/cps-info-booklet.pdf		P
3	All appliances must be tested to 230 VAC, 50 Hz.	Test with 100-240Vac, 50/60Hz	P
4	Appliance fitted with voltage selector shall be tested as follows: Connect appliance to 230 VAC mains with voltage selector switch to settings not suitable for operation at 230 VAC.	Not such equipment	N/A
5	All appliances (with tropical test requirements in applicable Standards) shall comply with the tropical condition test as stated in the relevant IEC Standards.	Considered	P
6	All Class I appliances (3-pin mains plug) must be fitted with 3-pin mains plugs complying with SS 145/SS 472 that are registered with the Authority.	The manufacturer commits to fulfil the requirement when the product will be sold in Singapore	P
7	a) All Class II appliances must be fitted with 2-pin mains plug complying with EN 50075. b) Class II appliances that are fitted with 3-pin mains plugs must use plugs that comply with SS 145 and registered with the Authority.	Class I equipment	N/A
9	Detachable power cord set must be listed in the test report critical component list.	The manufacturer commits to fulfil the requirement when the product will be sold in Singapore	P

IEC 60950_1G ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
10	Circuit diagrams must be indicated with component's values for products tested to IEC 60065 and IEC 60950.	Approved power board used	N/A
18	AC Adaptor incorporated with 13A socket-outlet to be tested to additional tests clauses 13, 17 and 18 of SS 246 (till 25/10/2021), or clauses 12.1 & 12.3 of SS 145 Part 3: 2020.	Not such equipment	N/A
19	Supplier who is supplying AC adaptors with detachable interchangeable plug pins must include with its products, written instructions to inform customer on the type of detachable interchangeable plug pins that are approved and suitable to use in Singapore. These instructions are to be submitted to the Conformity Assessment Body for verification when applying for Certificate of Conformity.	Not such equipment	N/A
20	For AC Adaptors supplied together with Personal Mobility Devices: <ol style="list-style-type: none"> 1. Registered Supplier to declare the model of the AC adaptor that is to be used with/ bundled together with the PMDs; 2. Registered Supplier to provide valid IEC 60950-1 or IEC 62368-1 test reports for certification and registration of the declared AC adaptor under the CPS scheme; and 3. Registered Supplier to provide the UL 2272 test report as supporting document, showing that the listed AC adaptor in the UL 2272 test report is the model declared to be used with/ bundled together with the PMDs. 	Not such equipment	N/A
21	CD/ DVD ROMs (used in personal computers) to have test certificate showing that CD/DVD ROM has complied with IEC 60825- 1.	Not such equipment	N/A
22	Modem card incorporated in the personal computer must be tested at set level (sub-clauses 5.1 & 6 of IEC 60950) or at component level.	Not such equipment	N/A
23	Powerline Ethernet Adaptor incorporated with 13A socket-outlet, to be tested to additional test clauses 13, 17 & 18 of SS 246 (till 25/10/2021), or clauses 13, 17 & 18 of SS 145 Part 3: 2020.	Not such equipment	N/A
49	Plasma/LCD display monitor tested to IEC 60950 would require additional test to clauses 9 (related to antenna only), 10.1, 10.2, 10.3 and 12.5 of IEC 60065.	No such equipment	N/A
	Other additional requirements which may be included in Chapter 7 of the information booklet in ongoing basis at the time of testing.		N/A

Photos



General view - 1



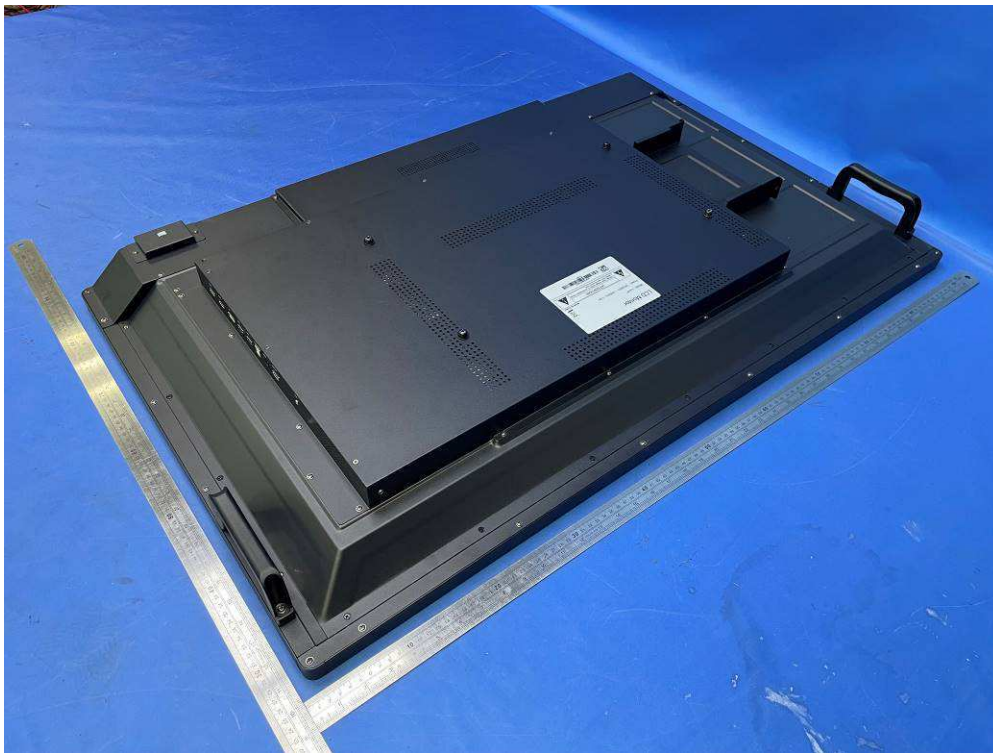
General view - 2



General view - 3



General view - 4



General view - 5



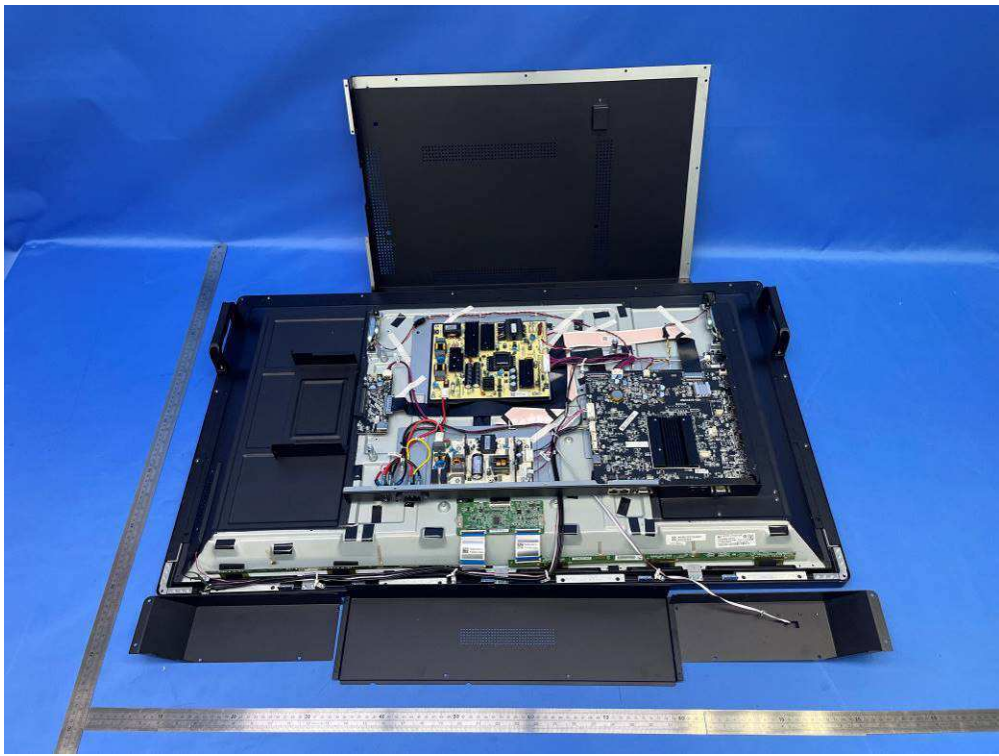
General view - 6



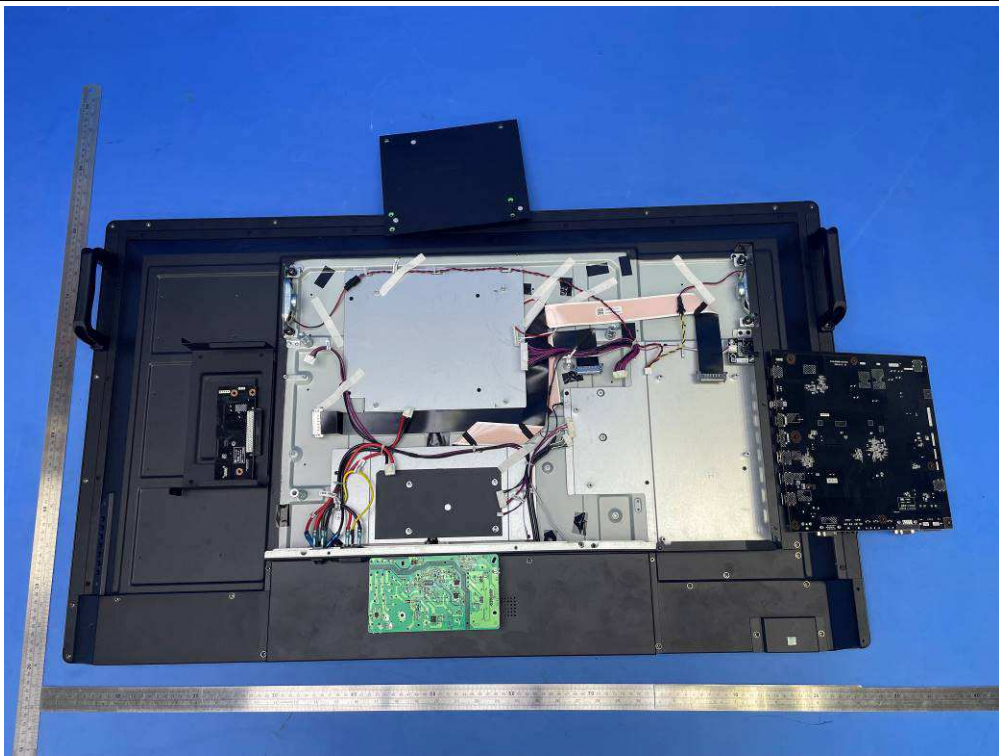
General view - 7



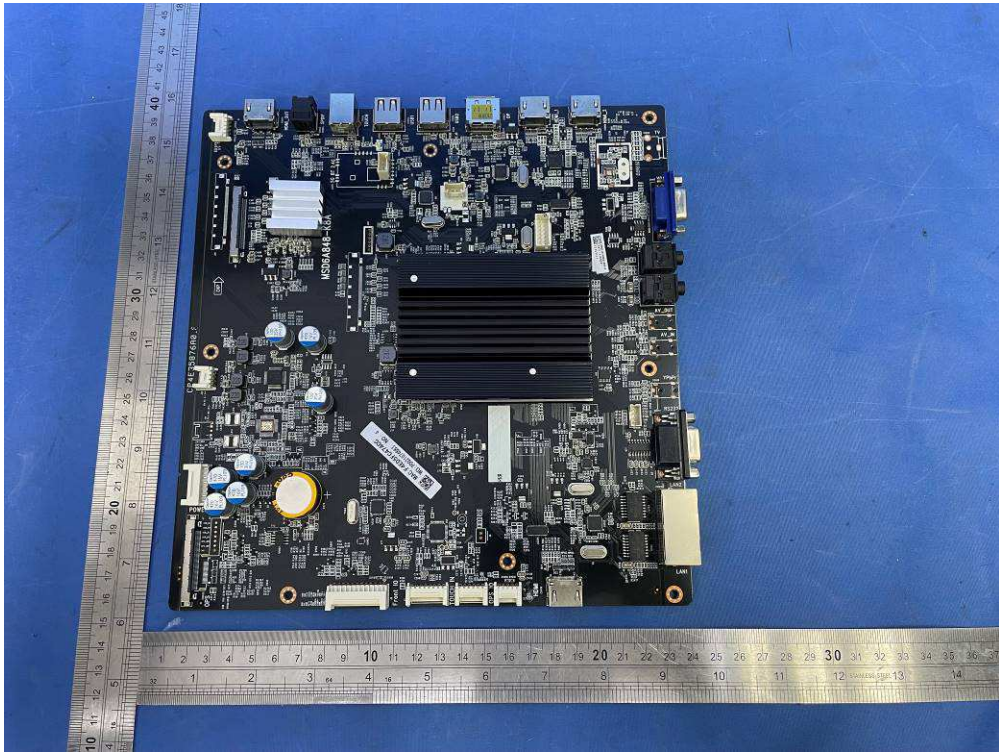
General view - 8



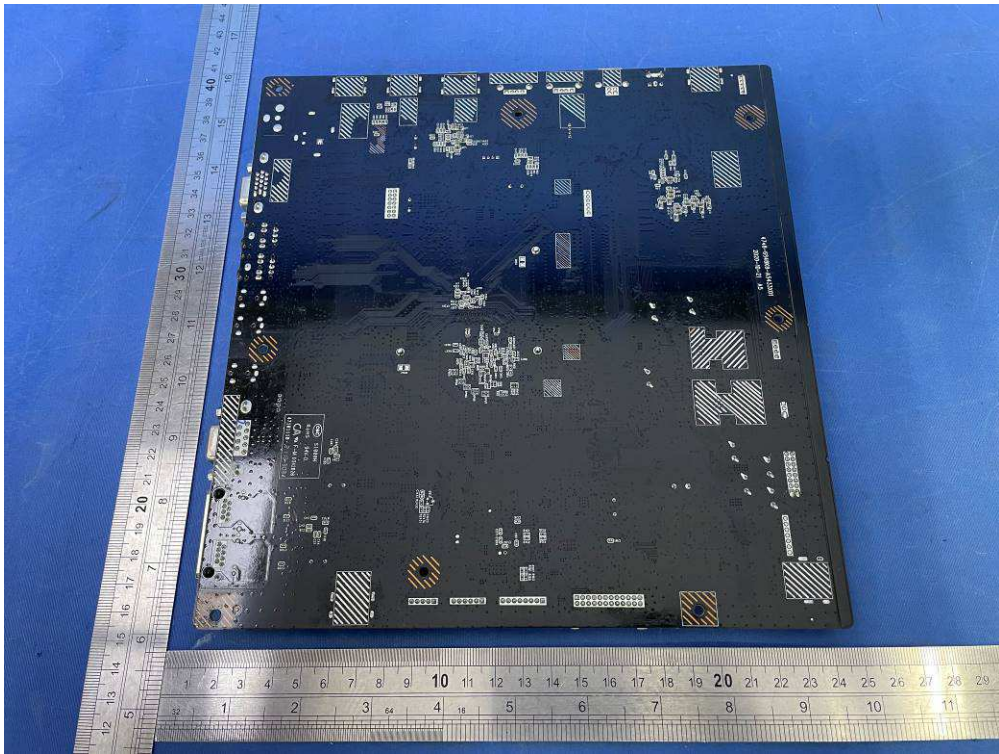
Internal view – 1



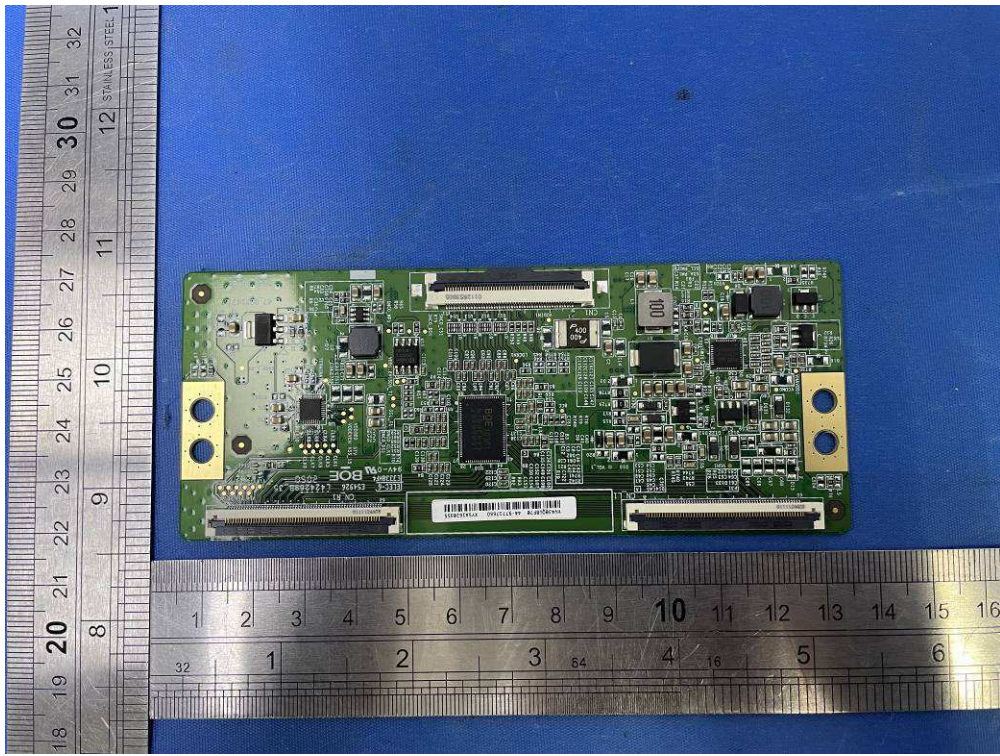
Internal view – 2



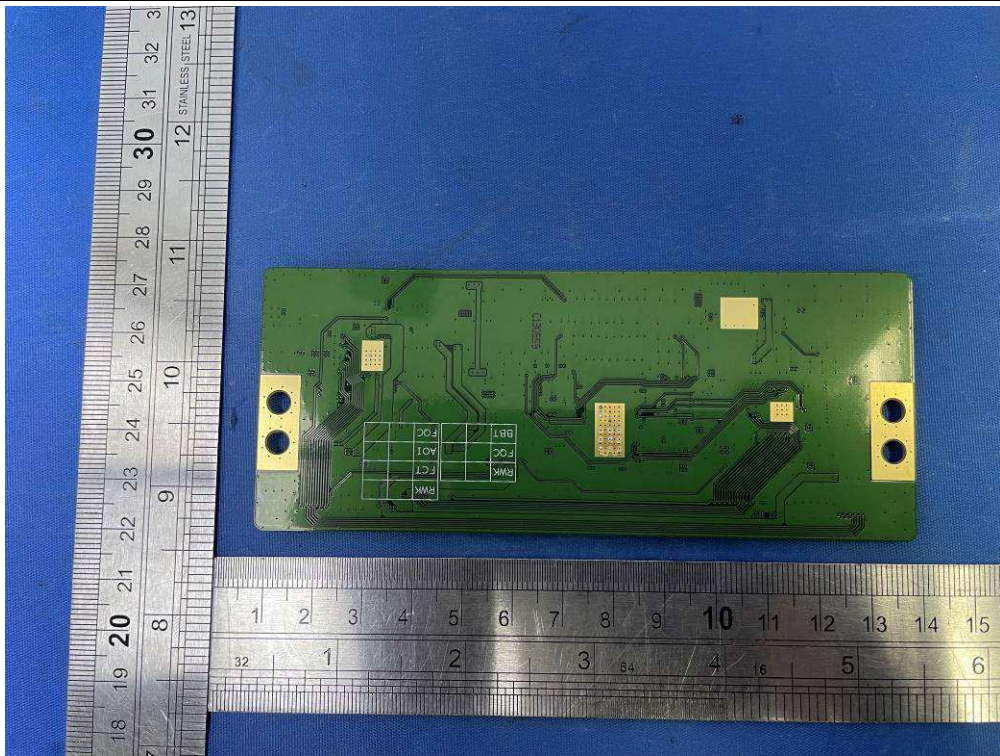
Main board view - 1



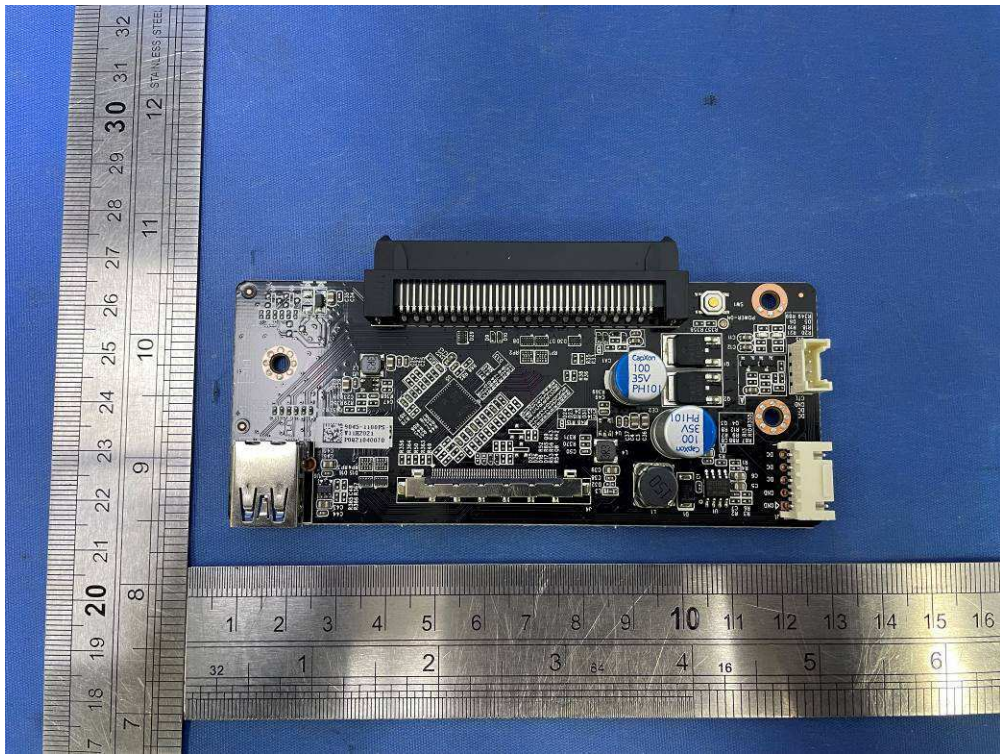
Main board view - 2



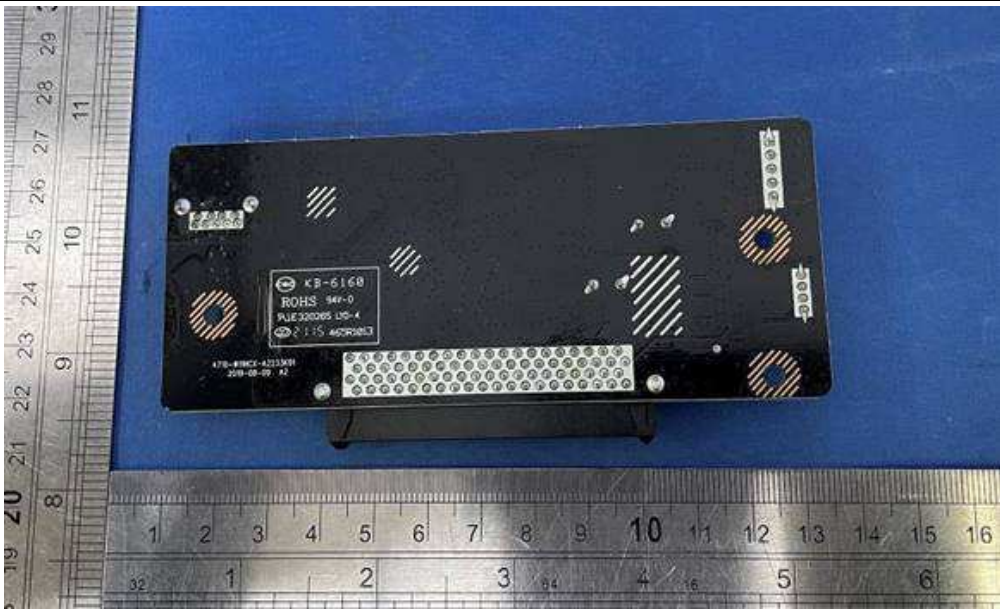
T-con board view – 1



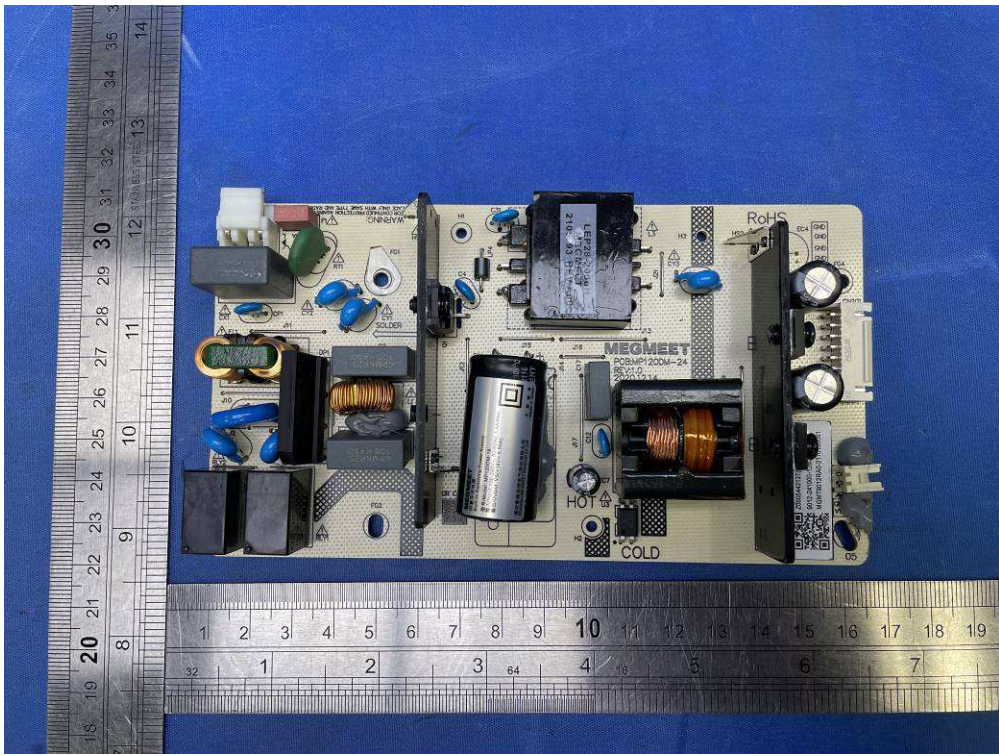
T-con board view – 2



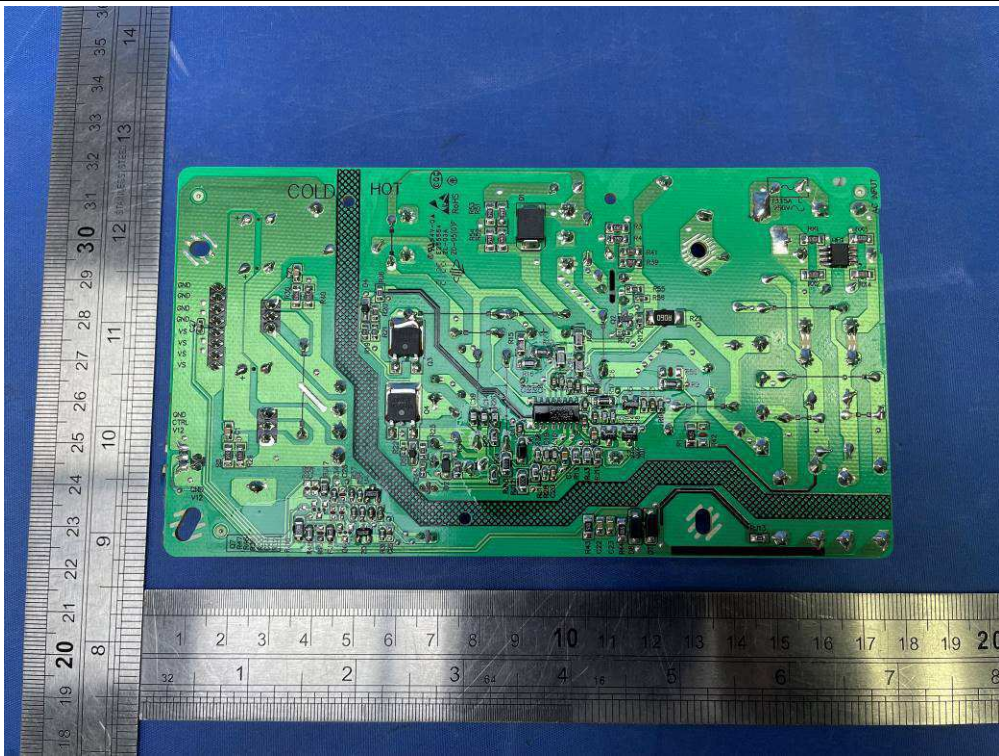
OPS board view – 1



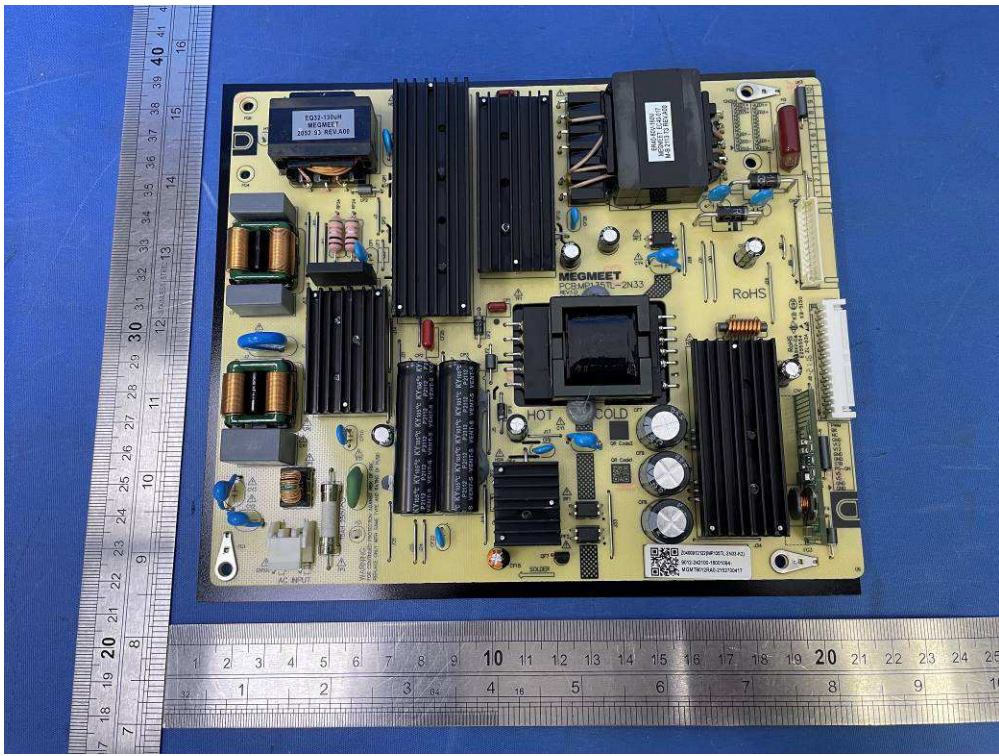
OPS board view - 2



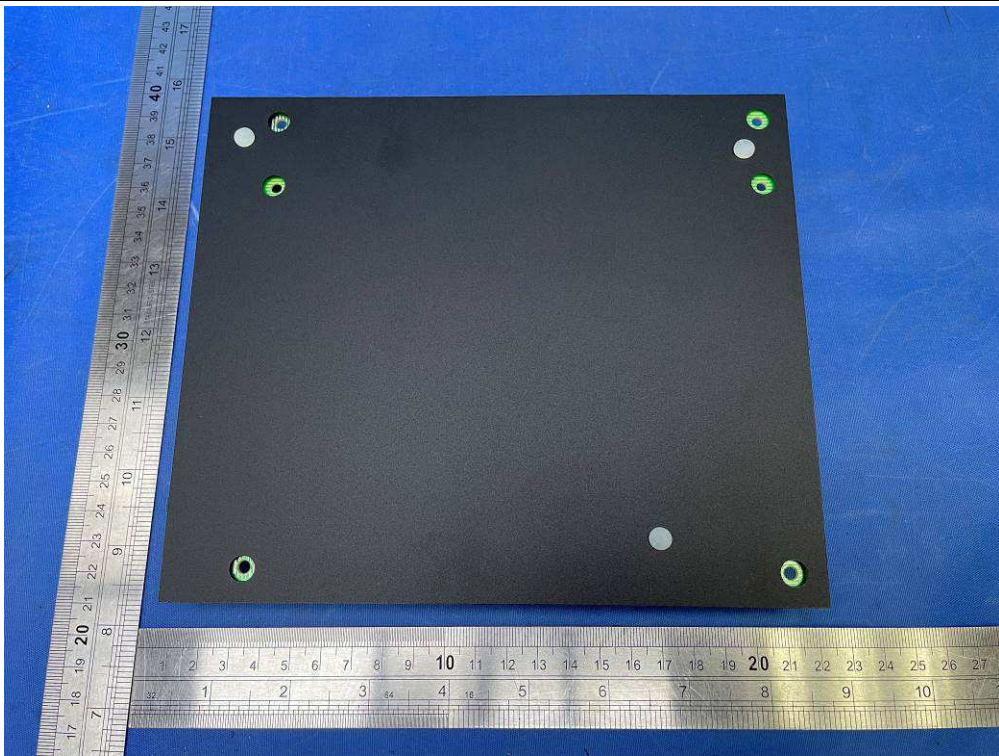
Power board(model MP120DM-18) view – 1



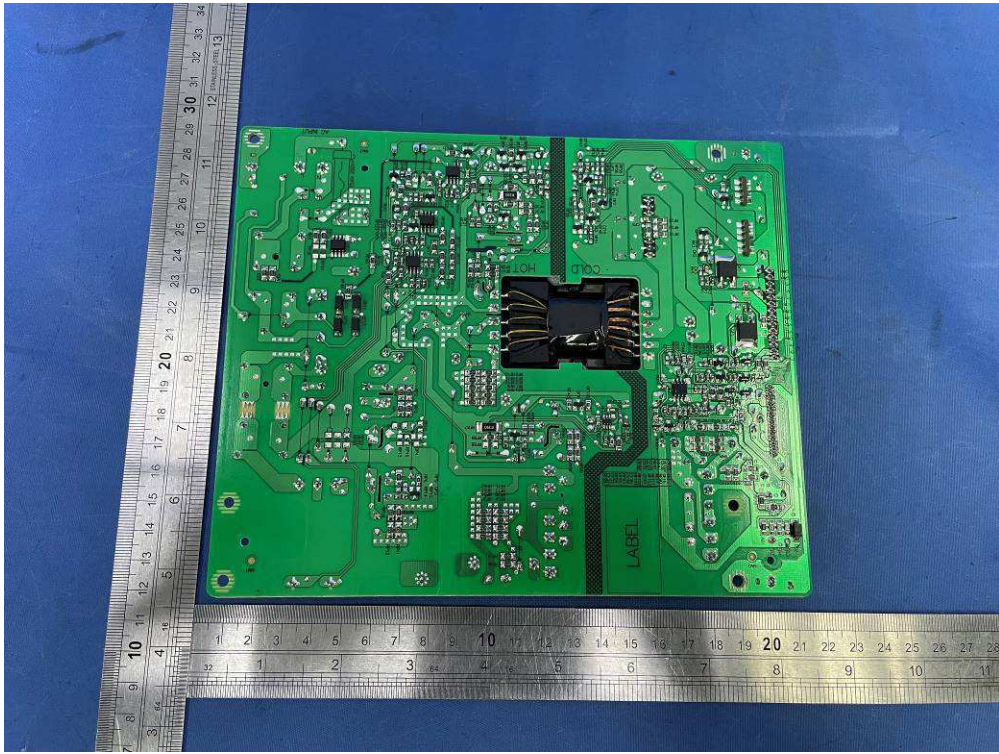
Power board(model MP120DM-18) view – 2



Power board(model MP135TL-2N33-K2) view – 3



Power board(model MP135TL-2N33-K2) view – 4



Power board(model MP135TL-2N33-K2) view – 5