TÜV Rheinland (China) Ltd. Member of TÜV Rheinland Group



TPV Electronics (Fujian) Co., Ltd.

Mr. Xinliang Wu

RD-SE

Rongqiao Economic and Technological Development Zone Fuqing City, Fujian Province P.R. China Date : 12.04.2017

Our ref.: WangAn ZJ Your ref.: 1140033607

Ref : CB Certificate Japan

Type of Equipment : LCD MONITOR
Model Designation : See Certificate
Certificate No. : JPTUV-079744
Report No. : 17059693 001

Dear Mr. Xinliang Wu,

Thank you very much for your interest in our services.

Please find enclosed your certification documents.

We appreciate your support and would like to offer our assistance in the approval of your future products through our extensive range of technical services.

Please feel free to contact us whatever your requirements may be.

With kind regards,

Certification Body

Miao Mai

CC: TPV Electronics (Fujian) Co., Ltd.

Maria

Enclosure

GC Service mailbox : service-gc@tuv.com



Ref. Certif. No.

JPTUV-079744

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product Produit

Name and address of the applicant Nom et adresse du demandeur

Name and address of the manufacturer Nom et adresse du fabricant

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

Ratings and principal characteristics Valeurs nominales et charactéristiques principales

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

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

Model / Type Ref. Ref. de type

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

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

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

référence qui constitue partie de ce Certificat

LCD MONITOR

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

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

See additional page(s)

1)DC 5V; 2A; Class III 2)DC 5V; 1.5A; Class III

AOC

N/A

1)156LM000**; *1659******; 2)*1601******* (* = 0-9, A-Z, a-z, -, \, /, + or blank)

For model differences, refer to the test report.

IEC 60950-1:2005+A1+A2 See Test Report for National Differences

17059693 001

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



TÜV Rheinland Japan Ltd. Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021 Japan Phone + 81 45 914-3888 Fax + 81 45 914-3354

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

Signature:

Miao Mai

MaiMiro

Date:

12.04.2017



JPTUV-079744

PAGE 2 OF 3

- TPV Display Technology (Wuhan)
 Co., Ltd.
 Unique No. 11, Zhuankou Development
 District of Economic Technological
 Development Zone, Wuhan City 430056, P.R. China
- TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road Fuqing City, Fujian Province P.R. China
- Envision Industry of Electronic Products Ltd. Rodovia Anhanguera S/N-KM 49 Tijuco Preto-Jundiaí-SP-13.205-700, Brazil
- L&T Display Technology (Fujian) Ltd. Optoelectronic Park, Rongqiao Economic and Technological Development Zone Fuqing, Fujian 350301, P.R. China
- TPV Electronics (Fujian) Co., Ltd. Rongqiao Economic and Technological Development Zone Fuqing City, Fujian Province P.R. China
- Trend Smart CE Mexico S de RL de CV Avenida Sor Juana Ines de la Cruz de 19602 Nueva Tijuana, 22435 Tijuana Baja California MEXICO
- TPV Display Technology (Beihai)
 Co., Ltd.
 China Electronic Beihai Industry
 Park, Northeast of the Crossing
 Between Taiwan Road and Jilin Road, Beihai City, Guangxi, P.R. China
- TPV Technology (Qingdao)
 Co., Ltd.
 No.99 Huoju Road, High-tech
 Industrial Development Zone
 Qingdao City, Shandong Province, P.R. China
- TPV Display Technology (China) Co., Ltd.
 No. 106 Jinghai 3 Rd., BDA Beijing City 100176 P.R. China

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

Report Ref. No.: 17059693 001

Man: Mira



JPTUV-079744

PAGE 3 OF 3

- Hefei Huntkey Display Technology
 Co., Ltd.
 South Jinxiu Road, East Qingtan Road
 Economic And Technological
 Development Zone, Hefei, Anhui 230601, P.R. China
- TPV Electronics (Fujian) Co., Ltd.
 Optoelectronic Park,
 Rongqiao Economic and
 Technological Development Zone,
 Fuqing City, Fujian Province 350301, P.R. China
- Envision Indústria de Produtos Eletrônicos Ltda.
 Av. Torquato Tapajós, 2236, Flores - CEP 69058-830 - Manaus/AM Brazil

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

Report Ref. No.: 17059693 001

Mon. Mor

Date: 12.04.2017

Signature:

Miao Mai







TEST REPORT

IEC 60950-1

Information technology equipment – Safety – Part 1: General requirements

 Report Number.
 17059693 001

 Date of issue
 Apr.08.2017

Total number of pages 42

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

Address Rongqiao Economic and Technological Development Zone, Fuqing

City, Fujian Province, P. R. China

Test specification:

Test procedure...... CB Scheme

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

Test Report Form No...... IEC60950_1F

Test Report Form(s) Originator: SGS Fimko Ltd

Master TRF Dated 2014-02

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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 AOC

Manufacturer..... See above

z, -, \, /, + or blank, represent different enclosure color and sales regions for marketing purpose only, no technical difference.)

2) DC 5V; 1.5A; Class III

Testi	ng procedure and testing location:				
	CB Testing Laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
		East of F/1, F/2~F/4, Building 1, Cybio Technology Building No. 6 Langshan No.2 Road, North Hi-tech Industry Park 518057 Shenzhen Nanshan District CHINA			
	Associated CB Testing Laboratory:				
Testi	ng location/ address:				
Teste	ed by (name + signature):	Anderson Wang Senior Project Manager			
Appr	oved by (name + signature):	Aegean Li Technical Reviewer			
	T. diameter TARIOTE Character	V			
	Testing procedure: TMP/CTF Stage 1:				
	ng location/ address:				
Test	ed by (name + signature):				
Appr	oved by (name + signature):				
	Testing procedure: WMT/CTF Stage 2:				
Testi	ng location/ address:				
Test	ed by (name + signature):				
Witn	essed by (name + signature):				
Appr	oved by (name + signature):				
	Testing procedure: SMT/CTF Stage 3 or 4:				
Testing location/ address:					
Test	ed by (name + signature):				
Witn	essed by (name + signature):				
Appr	oved by (name + signature):				
Supe	ervised by (name + signature):				
12					

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

- Photo documentation
- National Differences
- Appendix ZZ

Total number of pages in each attachment is indicated in individual attachment.

Summary of testing:

Tests performed (name of test and test clause):

The tests was carried out under the most unfavourable combination within the manufacturer's operating specifications of the following parameters:

- -supply voltage: 5Vdc
- -operating temperature: max. ambient temperature 40°C declared by the client
- -operating mode: continuous
- -operating load: maximum brightness, maximum contrast, full white screen.

Tests performed (name of test and test clause):

name of test	test clause number
Input Current Test	1.6.2
Durability of Marking Test	1.7.11
SELV limits for normal conditions	2.2.2
SELV limits for abnormal conditions	2.2.3
Wall or ceiling mounted equipment	4.2.10
Maximum Temperature Test	4.5.2
Fault Condition Test	5.3

Testing location:

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

Summary of compliance with National Differences

List of countries addressed:

EU Group Differences, EU Special National Conditions, EU A-Deviations, AT, AU*, BE, CA, CH, CN, CZ, DE, DK, FI, FR, GB, GR, HU, IT, IL*, JP*, KR*, NL, NO, PL, SE, SI, SK, US

Explanation of used codes: AT=Austria, AU=Australia, BE=Belgium, CA=Canada, CH=Switzerland, CN=P.R.China, CZ=Czech Republic, DE=Germany, DK=Denmark, FI=Finland, FR=France, GB=United Kingdom, GR=Greece, HU=Hungary, IT=Italy, IL=Israel, JP=Japan, KR=Korea, NL=The Netherlands, NO=Norway, PL=Poland, SE=Sweden, SI=Slovenia, SK=Slovakia, US=United States of America

For National Differences see end of this test report.

- * National differences to IEC 60950-1:2005 (Second Edition) + Am 1:2009 evaluated.
- ☑ The product fulfils the requirements of EN 60950-1:2006 + A11: 2009 + A1: 2010 +A12: 2011 +A2: 2013



Note: The above labels represent labels for model names other than above covered by the model name.

Test item particulars:	
Equipment mobility:	[x] movable [] hand-held [] transportable [x] stationary [] for building-in [] direct plug-in
Connection to the mains:	[] pluggable equipment [] type A [] type B [] permanent connection [] detachable power supply cord [] non-detachable power supply cord [x] not directly connected to the mains
Operating condition:	[x] continuous [] rated operating / resting time:
Access location:	[x] operator accessible [] restricted access location
Over voltage category (OVC):	OVC I OVC II OVC III OVC IV [x] other: not directly connected to the mains.
Mains supply tolerance (%) or absolute mains	
supply values	N/A
Tested for IT power systems	[] Yes [x] No
IT testing, phase-phase voltage (V)	N/A
Class of equipment:	[] Class I [] Class II [x] Class III [] Not classified
Considered current rating of protective device as part of the building installation (A)	N/A
Pollution degree (PD)	[] PD 1 [X] PD 2 [] PD 3
IP protection class:	IP20
Altitude during operation (m):	≤5000
Altitude of test laboratory (m):	<2000
Mass of equipment (kg):	Approx. 0.846kg (for unit without base stand); approx. 0.095kg (for base stand)
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:	17.Mar.2017
Date(s) of performance of tests:	17.Mar.2017 – 08.Apr.2017
General remarks:	
"(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to the	
Throughout this report a ☐ comma / ☒ point is us	sed as the decimal separator.

Manufacturer's Declaration per sub-clause 4.2.5 of	IECEE 02:
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	
When differences exist; they shall be identified in the	ne General product information section.
Name and address of factory (ies):	Unique No. 11, Zhuankou Development District of Economic Technological Development Zone, Wuhan City 430056, P.R.
	China TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road, Fuqing City,
	Fujian Province, P.R. China 3 Envision Industry of Electronic Products Ltd. Rodovia Anhanguera S/N-KM 49 Tijuco Preto-
	Jundiaí-SP-13.205-700, Brazil 4 L&T Display Technology (Fujian) Ltd. Optoelectronic Park, Rongqiao Economic and Technological, Development Zone, Fuqing, Fujian 350301, P.R. China
	5 TPV Electronics (Fujian) Co., Ltd. Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province, P.R. China
	6 Trend Smart CE Mexico S de RL de CV Avenida Sor Juana Ines de la Cruz de 19602 Nueva Tijuana, 22435 Tijuans Baja California, MEXICO
	7 TPV Display Technology (Beihai) Co., Ltd. China Electronic Beihai Industry Park, Northeast of the Crossing Between Taiwan Road and Jilin Road, Beihai City, Guangxi, P.R. China
	8 TPV Technology (Qingdao) Co., Ltd. No.99 Huoju Road, High-tech Industrial Development Zone, Qingdao City, Shandong Province, P.R. China
	9 TPV Display Technology (China) Co., Ltd. No.106 Jinghai 3 Rd., BDA, Beijing City 100176, P.R. China.
	10 Hefei Huntkey Display Technology Co.,Ltd. South Jinxiu Road, East Qingtan Road, Economic And Technological Development Zone, Hefei, Anhui 230601, P.R. China
	11 TPV Electronics (Fujian) Co., Ltd. Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province 350301, P.R. China
	12 Envision Indústria de Produtos Eletrônicos Ltda. Av. Torquato Tapajós, 2236, Flores - CEP

General product information:

The models mentioned on cover page are LCD monitor intended for using within the scope of information technology equipment and have the following features

- 1. LCD Type: 15.6 inch TFT LCD with LED backlight (Resolution: 1366 x 768);
- The unit is supplied by external USB 3.0 port (5Vdc), the output of USB3.0 port complies with limited power source of clause 2.5 and SELV circuit declared in user manual;
- Building-in main board 715G5971, which is supplied by USB board mentioned below; Building-in main board 715G9000, which is supplied by external USB 3.0;
- 4. Building-in USB board with one connecter: 715G5982, which is used with main board 715G5971 only;
- 5. The external plastic enclosure is regarded as decorative part;
- 6. Maximum declared ambient: 40°C.

See below table for model differences:

Model	Rating	USB board	Main board	Plastic enclosure	Metal enclosure	Base stand
156LM000**; *1659*****	DC 5V; 2A; Class III	715G5982	715G5971	Type A		Туре А
*1601******	DC 5V; 1.5A; Class III	N/A	715G9000	Type B	Туре А	N/A
Supplementary information						

Supplementary information:

Additional information:

The manufacturer declared that the product also fulfilled of the requirements of SANS 60950-1: 2014 (Edition 2.2) / IEC 60950-1: 2013 (Edition 2.2).

Other comments:

Declaration of the manufacturer: the sample(s) submitted for evaluation is (are) representative of the products from each factory.

Abbreviations used in the report:

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

Indicate used abbreviations (if any)

	Page 8 of 42 IEC 60950-1	·	
Clause	Requirement + Test	Result - Remark	Verdict
1	GENERAL		
1.5	Components		
1.5.1	General		
	Comply with IEC 60950-1 or relevant component standard	(see appended table 1.5.1)	Р
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 present in the equipment.	Р
1.5.3	Thermal controls	No thermal controls.	N/A
1.5.4	Transformers	Considered in approved external adapters.	N/A
1.5.5	Interconnecting cables	Interconnecting cable does not carry voltage higher than SELV and no higher energy level than 240VA.	Р
1.5.6	Capacitors bridging insulation	Considered in approved external adapter.	N/A
1.5.7	Resistors bridging insulation	Considered in approved external adapter.	N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		N/A
1.5.8	Components in equipment for IT power systems	No such component.	N/A
1.5.9	Surge suppressors	No such component.	N/A
1.5.9.1	General		N/A
1.5.9.2	Protection of VDRs		N/A
1.5.9.3	Bridging of functional insulation by a VDR		N/A
1.5.9.4	Bridging of basic insulation by a VDR		N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N/A
1.6	Power interface		Р
1.0	ו טאיפו ווונפוומנפ		ſ

	Page 9 of 42	Report No. 1705	9693 001
	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
1.6.1	AC power distribution systems	Unit is not directly connected to the AC mains.	N/A
1.6.2	Input current	(see appended table 1.6.2)	Р
1.6.3	Voltage limit of hand-held equipment	This appliance is not hand- held equipment.	N/A
1.6.4	Neutral conductor		N/A
		T	ı
1.7	Marking and instructions		Р
1.7.1	Power rating and identification markings	See below.	Р
1.7.1.1	Power rating marking	See marking on Page 4 for details	Р
	Multiple mains supply connections		Р
	Rated voltage(s) or voltage range(s) (V)	See marking on Page 4 for details	Р
	Symbol for nature of supply, for d.c. only:	See marking on Page 4 for details	Р
	Rated frequency or rated frequency range (Hz):	Class III equipment.	N/A
	Rated current (mA or A)	See marking on Page 4 for details	Р
1.7.1.2	Identification markings		Р
	Manufacturer's name or trade-mark or identification mark	See marking on Page 4 for details	Р
	Model identification or type reference	See marking on Page 4 for details	Р
	Symbol for Class II equipment only	Class III equipment.	N/A
	Other markings and symbols	Additional symbol or marking does not give rise to misunderstanding.	Р
1.7.1.3	Use of graphical symbols		N/A
1.7.2	Safety instructions and marking	English safety instruction provided.	Р
1.7.2.1	General		Р
1.7.2.2	Disconnect devices		N/A
1.7.2.3	Overcurrent protective device		N/A
1.7.2.4	IT power distribution systems		N/A
1.7.2.5	Operator access with a tool	No such access required.	N/A
1.7.2.6	Ozone	Ozone not used or generated.	N/A
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N/A

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
1.7.4	Supply voltage adjustment		N/A
	Methods and means of adjustment; reference to installation instructions:		N/A
1.7.5	Power outlets on the equipment	No power outlets provided.	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)		N/A
1.7.7	Wiring terminals	See below.	Р
1.7.7.1	Protective earthing and bonding terminals:	No earthing terminals and bonding terminals	N/A
1.7.7.2	Terminals for a.c. mains supply conductors	Not connected to a.c. mains	N/A
1.7.7.3	Terminals for d.c. mains supply conductors	Not connected to d.c. mains	N/A
1.7.8	Controls and indicators	See below	Р
1.7.8.1	Identification, location and marking	No safety relevant control and indicator	Р
1.7.8.2	Colours		N/A
1.7.8.3	Symbols according to IEC 60417		N/A
1.7.8.4	Markings using figures	No figures used.	N/A
1.7.9	Isolation of multiple power sources:	Only one supply voltage range provided.	N/A
1.7.10	Thermostats and other regulating devices:	No such components.	N/A
1.7.11	Durability	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. and then again for 15 sec. with the cloth soaked with petroleum spirit.	Р
		After this test there was no damage to the label. The marking on the label did not fade. There was no curling or lifting of the label edge.	
1.7.12	Removable parts	None.	N/A
1.7.13	Replaceable batteries	No batteries.	N/A
	Language(s)		_
1.7.14	Equipment for restricted access locations:	Equipment not intended for installation in restricted access locations.	N/A

2	PROTECTION FROM HAZARDS	
	EUT supplied by external USB 3.0 port, no hazards inside	
2.1	Protection from electric shock and energy hazards	Р

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
2.1.1	Protection in operator access areas	Only SELV signal interface accessible by operator.	Р
2.1.1.1	Access to energized parts	No hazardous voltage inside, class III product	Р
	Test by inspection		N/A
	Test with test finger (Figure 2A)		N/A
	Test with test pin (Figure 2B)		N/A
	Test with test probe (Figure 2C)		N/A
2.1.1.2	Battery compartments	No battery compartment.	N/A
2.1.1.3	Access to ELV wiring	No ELV wiring in operator accessible area.	N/A
	Working voltage (Vpeak or Vrms); 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	Supplied by SELV having a energy level less than 240VA	Р
2.1.1.6	Manual controls	No manual controls.	N/A
2.1.1.7	Discharge of capacitors in equipment	Considered in approved external adapter.	N/A
	Measured voltage (V); time-constant (s)		_
2.1.1.8	Energy hazards – d.c. mains supply		N/A
	a) Capacitor connected to the d.c. mains supply:		N/A
	b) Internal battery connected to the d.c. mains supply		N/A
2.1.1.9	Audio amplifiers		N/A
2.1.2	Protection in service access areas	No service access area.	N/A
2.1.3	Protection in restricted access locations	Equipment not intended for installation in restricted access locations	N/A

2.2	SELV circuits		Р
2.2.1	General requirements	See below	Р
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 2.2.2)	Р
2.2.3	Voltages under fault conditions (V)	Considered in external USB 3.0 port.	N/A
2.2.4	Connection of SELV circuits to other circuits:	Connect to SELV circuit	Р

		<u> </u>	<u>'</u>	
		IEC 60950-1		
Clause	Requirement + Test		Result - Remark	Verdict

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

2.4	Limited current circuits No limited current circuits, requirements not applicable to the evaluated product.	
2.4.1	General requirements	
2.4.2	Limit values	N/A
	Frequency (Hz)	_
	Measured current (mA)	
	Measured voltage (V)	
	Measured circuit capacitance (nF or μF)	_
2.4.3	Connection of limited current circuits to other circuits	N/A

2.5	Limited power sources Requirement not applicable to the evaluated product.	
	a) Inherently limited output	N/A
	b) Impedance limited output	N/A
	c) Regulating network or IC current limiter, limits output under normal operating and single fault condition	N/A
	Use of integrated circuit (IC) current limiters	N/A
	d) Overcurrent protective device limited output	N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA)	_

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

Current rating of overcurrent protective device (A).:		_
---	--	---

2.6	Provisions for earthing and bonding Class III equipment.	N/A
2.6.1	Protective earthing	N/A
2.6.2	Functional earthing	N/A
	Use of symbol for functional earthing:	N/A
2.6.3	Protective earthing and protective bonding conductors	N/A
2.6.3.1	General	N/A
2.6.3.2	Size of protective earthing conductors	N/A
	Rated current (A), cross-sectional area (mm²), AWG	_
2.6.3.3	Size of protective bonding conductors	N/A
	Rated current (A), cross-sectional area (mm²), AWG	_
	Protective current rating (A), cross-sectional area (mm²), AWG	_
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω) , voltage drop (V), test current (A), duration (min)	N/A
2.6.3.5	Colour of insulation:	N/A
2.6.4	Terminals	N/A
2.6.4.1	General	N/A
2.6.4.2	Protective earthing and bonding terminals	N/A
	Rated current (A), type, nominal thread diameter (mm)	_
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	N/A
2.6.5	Integrity of protective earthing	N/A
2.6.5.1	Interconnection of equipment	N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	N/A
2.6.5.3	Disconnection of protective earth	N/A
2.6.5.4	Parts that can be removed by an operator	N/A
2.6.5.5	Parts removed during servicing	N/A
2.6.5.6	Corrosion resistance	N/A
2.6.5.7	Screws for protective bonding	N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system	N/A

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

2.7	Overcurrent and earth fault protection in primary circuits No primary circuit, requirement not applicable to the evaluated product	
2.7.1	Basic requirements	N/A
	Instructions when protection relies on building installation	N/A
2.7.2	Faults not simulated in 5.3.7	N/A
2.7.3	Short-circuit backup protection	N/A
2.7.4	Number and location of protective devices:	N/A
2.7.5	Protection by several devices	N/A
2.7.6	Warning to service personnel:	N/A

2.8	Safety interlocks	N/A
2.8.1	General principles	N/A
2.8.2	Protection requirements	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 External USB 3.0 port used, only functional insulation considered in EUT		Р
2.9.1	Properties of insulating materials	Function insulation Considered.	Р
2.9.2	Humidity conditioning		N/A
	Relative humidity (%), temperature (°C):		_
2.9.3	Grade of insulation	Function insulation Considered.	Р
2.9.4	Separation from hazardous voltages		N/A
	Method(s) used:		_

	IEC 60950-1	
Clause	Requirement + Test Result - Remark	Verdict
2.10	Clearances, creepage distances and distances through insulation Supplied by SELV, and functional insulation inside the unit, requirements applicable, see clause 5.3.4	N/A not
2.10.1	General	N/A
2.10.1.1	Frequency:	N/A
2.10.1.2	Pollution degrees:	N/A
2.10.1.3	Reduced values for functional insulation	N/A
2.10.1.4	Intervening unconnected conductive parts	N/A
2.10.1.5	Insulation with varying dimensions	N/A
2.10.1.6	Special separation requirements	N/A
2.10.1.7	Insulation in circuits generating starting pulses	N/A
2.10.2	Determination of working voltage	N/A
2.10.2.1	General	N/A
2.10.2.2	RMS working voltage	N/A
2.10.2.3	Peak working voltage	N/A
2.10.3	Clearances	N/A
2.10.3.1	General	N/A
2.10.3.2	Mains transient voltages	N/A
	a) AC mains supply:	N/A
	b) Earthed d.c. mains supplies:	N/A
	c) Unearthed d.c. mains supplies:	N/A
	d) Battery operation:	N/A
2.10.3.3	Clearances in primary circuits	N/A
2.10.3.4	Clearances in secondary circuits	N/A
2.10.3.5	Clearances in circuits having starting pulses	N/A
2.10.3.6	Transients from a.c. mains supply	N/A
2.10.3.7	Transients from d.c. mains supply:	N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems:	N/A
2.10.3.9	Measurement of transient voltage levels	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
2.10.4	Creepage distances	N/A
2.10.4.1	General	N/A
2.10.4.2	Material group and comparative tracking index	N/A

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	CTI tests		
2.10.4.3	Minimum creepage distances		N/A
2.10.5	Solid insulation		N/A
2.10.5.1	General		N/A
2.10.5.2	Distances through insulation		N/A
2.10.5.3	Insulating compound as solid insulation		N/A
2.10.5.4	Semiconductor devices		N/A
2.10.5.5.	Cemented joints		N/A
2.10.5.6	Thin sheet material – General		N/A
2.10.5.7	Separable thin sheet material		N/A
	Number of layers (pcs):		
2.10.5.8	Non-separable thin sheet material		N/A
2.10.5.9	Thin sheet material – standard test procedure		N/A
2.10.0.0	Electric strength test		
2.10.5.10	Thin sheet material – alternative test procedure		N/A
2.10.0.10	Electric strength test		
2.10.5.11	Insulation in wound components		N/A
2.10.5.12	Wire in wound components		N/A
2.10.0.12	Working voltage:		N/A
	a) Basic insulation not under stress		N/A
	b) Basic, supplementary, reinforced insulation:		N/A
	c) Compliance with Annex U		N/A
	Two wires in contact inside wound component; angle between 45° and 90°		N/A
2.10.5.13	Wire with solvent-based enamel in wound components		N/A
	Electric strength test		_
	Routine test		N/A
2.10.5.14	Additional insulation in wound components		N/A
	Working voltage		N/A
	- Basic insulation not under stress:	1	N/A
	- Supplementary, reinforced insulation:		N/A
2.10.6	Construction of printed boards		N/A
2.10.6.1	Uncoated printed boards		N/A
2.10.6.2	Coated printed boards		N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N/A

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
2.10.6.4	Insulation between conductors on different layers of a printed board		N/A
	Distance through insulation		N/A
	Number of insulation layers (pcs)		N/A
2.10.7	Component external terminations		N/A
2.10.8	Tests on coated printed boards and coated components		N/A
2.10.8.1	Sample preparation and preliminary inspection		N/A
2.10.8.2	Thermal conditioning		N/A
2.10.8.3	Electric strength test		N/A
2.10.8.4	Abrasion resistance test		N/A
2.10.9	Thermal cycling		N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N/A
2.10.11	Tests for semiconductor devices and cemented joints		N/A
2.10.12	Enclosed and sealed parts		N/A

3	WIRING, CONNECTIONS AND SUPPLY		Р
3.1	General		Р
3.1.1	Current rating and overcurrent protection	The internal wires have suitable size to carry rated current.	Р
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges which could damage the insulation and cause hazard.	Р
3.1.3	Securing of internal wiring	Wires are secured by soldering method and additionally fixed by glue or by connectors.	Р
3.1.4	Insulation of conductors	The insulation of the individual conductors suitable for the application and the working voltage. For the insulation material see 3.1.1.	Р
3.1.5	Beads and ceramic insulators	Not used.	N/A
3.1.6	Screws for electrical contact pressure		N/A
3.1.7	Insulating materials in electrical connections		N/A
3.1.8	Self-tapping and spaced thread screws	No self-tapping screws are used.	N/A

	IEC 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict		
			T		
3.1.9	Termination of conductors	All conductors are reliably secured.	Р		
	10 N pull test		Р		
3.1.10	Sleeving on wiring		N/A		

3.2	Connection to a mains supply EUT not connected to mains directly	, N/A
3.2.1	Means of connection	N/A
3.2.1.1	Connection to an a.c. mains supply	N/A
3.2.1.2	Connection to a d.c. mains supply	N/A
3.2.2	Multiple supply connections	N/A
3.2.3	Permanently connected equipment	N/A
	Number of conductors, diameter of cable and conduits (mm):	_
3.2.4	Appliance inlets	N/A
3.2.5	Power supply cords	N/A
3.2.5.1	AC power supply cords	N/A
	Туре:	
	Rated current (A), cross-sectional area (mm²), AWG:	_
3.2.5.2	DC power supply cords	N/A
3.2.6	Cord anchorages and strain relief	N/A
	Mass of equipment (kg), pull (N):	_
	Longitudinal displacement (mm):	_
3.2.7	Protection against mechanical damage	N/A
3.2.8	Cord guards	N/A
	Diameter or minor dimension D (mm); test mass (g)	_
	Radius of curvature of cord (mm):	_
3.2.9	Supply wiring space	N/A

3.3	Wiring terminals for connection of external conductors		N/A
3.3.1	Wiring terminals		N/A
3.3.2	Connection of non-detachable power supply cords		N/A
3.3.3	Screw terminals		N/A
3.3.4	Conductor sizes to be connected		N/A

	Page 19 of 42	Report No. 170	59693 00
	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Rated current (A), cord/cable type, cross-sectional area (mm²)		_
3.3.5	Wiring terminal sizes		N/A
	Rated current (A), type, nominal thread diameter (mm):		_
3.3.6	Wiring terminal design		N/A
3.3.7	Grouping of wiring terminals		N/A
3.3.8	Stranded wire		N/A
3.4	Disconnection from the mains supply EUT	not connected to mains directly	N/A
3.4.1	General requirement		N/A
3.4.2	Disconnect devices		N/A
3.4.3	Permanently connected equipment		N/A
3.4.4	Parts which remain energized		N/A
3.4.5	Switches in flexible cords		N/A
3.4.6	Number of poles - single-phase and d.c. equipment		N/A
3.4.7	Number of poles - three-phase equipment		N/A
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices		N/A
3.4.10	Interconnected equipment		N/A
3.4.11	Multiple power sources		N/A
3.5	Interconnection of equipment		Р
3.5.1	General requirements	This power supply is not considered for connection to TNV.	Р
3.5.2	Types of interconnection circuits:	Interconnection circuits of SELV through the connector. No ELV interconnection circuits.	Р
3.5.3	ELV circuits as interconnection circuits	No ELV interconnection	N/A
3.5.4	Data ports for additional equipment	No such data port.	N/A
4	PHYSICAL REQUIREMENTS		Р
4.1	Stability		Р
	Angle of 10°	Test performed by client's request.	Р

IEC 60950-1			
Verdict	Result - Remark	Clause	
N/A	Equipment is not a floor standing unit.		
	standing unit.		

4.2	Mechanical strength Evaluated product supplied by SELV and all the circuits inside the enclosure are SELV circuits		N/A
4.2.1	General		N/A
	Rack-mounted equipment.		N/A
4.2.2	Steady force test, 10 N		N/A
4.2.3	Steady force test, 30 N		N/A
4.2.4	Steady force test, 250 N		N/A
4.2.5	Impact test		N/A
	Fall test		N/A
	Swing test		N/A
4.2.6	Drop test; height (mm):		N/A
4.2.7	Stress relief test		N/A
4.2.8	Cathode ray tubes	No CRT	N/A
	Picture tube separately certified:		N/A
4.2.9	High pressure lamps		N/A
4.2.10	Wall or ceiling mounted equipment; force (N):	An additional force 24.87N required by client applied downwards through the centre of gravity of the equipment for 1 min after the removal of base. After the test, the equipment was not damaged. (27.64N = 3 x 0.846 x 9.8N)	N/A

4.3	Design and construction		Р
4.3.1	Edges and corners	Edges and corners of the enclosure are rounded.	Р
4.3.2	Handles and manual controls; force (N):	No safety relevant handles or manual controls.	N/A
4.3.3	Adjustable controls	No such controls.	N/A
4.3.4	Securing of parts	All parts secured properly.	Р
4.3.5	Connection by plugs and sockets		N/A
4.3.6	Direct plug-in equipment	Not such equipment.	N/A
	Torque		_
	Compliance with the relevant mains plug standard		N/A

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.3.7	Heating elements in earthed equipment	None.	N/A
4.3.8	Batteries	No batteries.	N/A
	- Overcharging of a rechargeable battery		N/A
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		N/A
4.3.9	Oil and grease	None.	N/A
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N/A
4.3.11	Containers for liquids or gases	None	N/A
4.3.12	Flammable liquids:	None	N/A
	Quantity of liquid (I):		N/A
	Flash point (°C)		N/A
4.3.13	Radiation		Р
4.3.13.1	General	See below	Р
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 ultraviolet radiation	N/A
	Part, property, retention after test, flammability classification:		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	No ultraviolet radiation	N/A
4.3.13.5	Lasers (including laser diodes) and LEDs	The LED is considered as indicating light.	Р
4.3.13.5.1	Lasers (including laser diodes)		N/A
	Laser class		_
4.3.13.5.2	Light emitting diodes (LEDs)	Lower power of Indicating LED on secondary, which is used for indicating light only.	_
4.3.13.6	Other types:		N/A

4.4	Protection against hazardous moving parts		N/A
4.4.1	General		N/A
4.4.2	Protection in operator access areas:		N/A

	Page 22 01 42	Report No. 170	30000 001
	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Household and home/office document/media shredders		N/A
4.4.3	Protection in restricted access locations:		N/A
4.4.4	Protection in service access areas		N/A
4.4.5	Protection against moving fan blades		N/A
4.4.5.1	General		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		N/A
	Use of symbol or warning:		N/A
4.4.5.3	Protection for service persons		N/A
	Use of symbol or warning:		N/A
4.5	Thermal requirements		Р
4.5.1	General	No parts exceeding temperature limits.	Р
4.5.2	Temperature tests	(see appended table 4.5)	Р
	Normal load condition per Annex L:	Equipment loaded with rated output current.	_
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	Р
4.5.5	Resistance to abnormal heat:	Considered in approved switching AC/DC adapter	N/A
			Т
4.6	Openings in enclosures		Р
4.6.1	Top and side openings		N/A
	Dimensions (mm):		—
4.6.2	Bottoms of fire enclosures	No requiring for fire enclosure.	Р
	Construction of the bottomm, dimensions (mm):		_
4.6.3	Doors or covers in fire enclosures	No doors or covers.	N/A
4.6.4	Openings in transportable equipment	Not transportable equipment.	N/A
4.6.4.1	Constructional design measures		N/A
	Dimensions (mm):		_
4.6.4.2	Evaluation measures for larger openings		N/A
4.6.4.3	Use of metallized parts		N/A
4.6.5	Adhesives for constructional purposes	No adhesives for constructional purposes.	N/A

N/A

N/A

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	IEC 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict		
	Conditioning temperature (°C), time (weeks):				

4.7	Resistance to fire		Р
4.7.1	Reducing the risk of ignition and spread of flame	No excessive temperatures. No easily burning materials employed. Safety relevant components used within their specified temperature limits.	Р
	Method 1, selection and application of components wiring and materials		Р
	Method 2, application of all of simulated fault condition tests		N/A
4.7.2	Conditions for a fire enclosure	The unit is supplied by LPS from external USB 3.0 port, and internal parts/components mounted on V-1 or better PCB.	Р
4.7.2.1	Parts requiring a fire enclosure	See above.	Р
4.7.2.2	Parts not requiring a fire enclosure	For components supplied by LPS and mounted on V-1 or better material PCB.	Р
4.7.3	Materials		Р
4.7.3.1	General	PCB rated V-1 or better.	Р
4.7.3.2	Materials for fire enclosures		N/A
4.7.3.3	Materials for components and other parts outside fire enclosures		N/A
4.7.3.4	Materials for components and other parts inside fire enclosures		N/A

5	Touch current and protective conductor current Class III product, requirements not applicable to the evaluated product.	
5.1		
5.1.1	General	N/A
5.1.2	Configuration of equipment under test (EUT)	N/A
5.1.2.1	Single connection to an a.c. mains supply	N/A
5.1.2.2	Redundant multiple connections to an a.c. mains supply	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	N/A

No air filter.

No such high voltage

components in this meaning

4.7.3.5

4.7.3.6

Materials for air filter assemblies

Materials used in high-voltage components

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.1.3	Test circuit		N/A
5.1.4	Application of measuring instrument		N/A
5.1.5	Test procedure		N/A
5.1.6	Test measurements		N/A
	Supply voltage (V)		_
	Measured touch current (mA)		_
	Max. allowed touch current (mA)		_
	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		N/A
5.1.7.2	Simultaneous multiple connections to the supply		N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks		N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to 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		N/A
	a) EUT with earthed telecommunication ports:		N/A
	b) EUT whose telecommunication ports have no reference to protective earth		N/A

5.2	Electric strength		N/A
	Class III product, requirements not appl	licable to the evaluated product.	
5.2.1	General		N/A
5.2.2	Test procedure		N/A

5.3	Abnormal operating and fault conditions		Р
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	Р
5.3.2	Motors	Motors not used.	N/A
5.3.3	Transformers	Considered in approved external adapters.	N/A

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.3.4	Functional insulation:	By short-circuited, results see appended table 5.3.	Р
5.3.5	Electromechanical components	No electromechanical component.	N/A
5.3.6	Audio amplifiers in ITE:		N/A
5.3.7	Simulation of faults	(see appended table 5.3.)	Р
5.3.8	Unattended equipment	No such equipment.	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions		Р
5.3.9.1	During the tests	No fire or molten metal occurred and no deformation of enclosure during the tests.	Р
5.3.9.2	After the tests		N/A
6	CONNECTION TO TELECOMMUNICATION NETWORKS		N/A
6.1	Protection of telecommunication network servic equipment connected to the network, from hazar		N/A
6.1.1	Protection from hazardous voltages		N/A
6.1.2	Separation of the telecommunication network from e	earth	N/A
6.1.2.1	Requirements		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 overvoltage networks	s on telecommunication	N/A
6.2.1	Separation requirements		N/A
6.2.2	Electric strength test procedure		N/A
6.2.2.1	Impulse test		N/A
6.2.2.2	Steady-state test		N/A
6.2.2.3	Compliance criteria		N/A
6.3	Protection of the telecommunication wiring syst	em from overheating	N/A
	Max. output current (A):		_
	Current limiting method		
		1	

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		N/A
7.1	General		N/A

	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		N/A	
7.3	Protection of equipment users from overvoltages on the cable distribution system		N/A	
7.4	Insulation between primary circuits and cable distribution systems		N/A	
7.4.1	General		N/A	
7.4.2	Voltage surge test		N/A	
7.4.3	Impulse test		N/A	

Α	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)	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):	

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
			·
	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
A.3.2	Test procedure		N/A
A.3.3	Compliance criterion		N/A

В	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)	
B.1	General requirements	N/A
	Position	_
	Manufacturer	_
	Туре	
	Rated values	_
B.2	Test conditions	N/A
B.3	Maximum temperatures	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	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	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	N/A

IEC 60950-1				
Clause	Requirement + Test Result - Remark	Verdict		
		1		
B.9	Test for three-phase motors	N/A		
B.10	Test for series motors	N/A		
	Operating voltage (V)			
С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3) EUT supplied by approved switching AC/DC adapter	N/A		
	Position			
	Manufacturer	_		
	Type			
	Rated values			
	Method of protection:	_		
C.1	Overload test	N/A		
C.2	Insulation	N/A		
	Protection from displacement of windings:	N/A		
D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS	N/A		
נ	(see 5.1.4)	14// (
D.1	Measuring instrument	N/A		
D.2	Alternative measuring instrument	N/A		
E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)	N/A		
		1		
F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)	N/A		
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES	N/A		
G.1	Clearances	N/A		
G.1.1	General	N/A		
G.1.2	Summary of the procedure for determining minimum clearances	N/A		
G.2	Determination of mains transient voltage (V)	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)::	N/A		

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	IEC 60950-1	T	1
Clause	Requirement + Test	Result - Remark	Verdict
G.4	Determination of required withstand voltage (V)		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)		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:		N/A
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)		N/A
			-L
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTE	NTIALS (see 2.6.5.6)	N/A
	Metal(s) used		
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	5.3.8)	N/A
K.1	Making and breaking capacity		N/A
K.2	Thermostat reliability; operating voltage (V):		N/A
K.3	Thermostat endurance test; operating voltage (V)		N/A
K.4	Temperature limiter endurance; operating voltage (V)		N/A
K.5	Thermal cut-out reliability		N/A
K.6	Stability of operation		N/A
11.0	orability or operation		1071
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SO BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	ME TYPES OF ELECTRICAL	Р
L.1	Typewriters		N/A
L.2	Adding machines and cash registers		N/A
L.3	Erasers		N/A
L.4	Pencil sharpeners		N/A
L.5	Duplicators and copy machines		N/A
L.6	Motor-operated files		N/A
L.7	Other business equipment	See 1.6.2.	Р

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	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
M	ANNEX M, CRITERIA FOR TELEPHONE RINGING	S SIGNALS (see 2.3.1)	N/A
M.1	Introduction	,	N/A
M.2	Method A		N/A
M.3	Method B		N/A
M.3.1	Ringing 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
M.3.2.3	Monitoring voltage (V)		N/A
			•
N	ANNEX N, IMPULSE TEST GENERATORS (see 1 7.3.2, 7.4.3 and Clause G.5)	.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1,	N/A
N.1	ITU-T impulse test generators		N/A
N.2	IEC 60065 impulse test generator		N/A
Р	ANNEX P, NORMATIVE REFERENCES		
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	N/A
	- Preferred climatic categories:		N/A
	- Maximum continuous voltage		N/A
	- Combination pulse current:		N/A
	Body of the VDR Test according to IEC60695-11-5		N/A
	Body of the VDR. Flammability class of material (min V-1)		N/A
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR PROGRAMMES	QUALITY CONTROL	N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)		N/A
R.2	Reduced clearances (see 2.10.3)		N/A
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING	6 (see 6.2.2.3)	N/A

	IEC 60950-1	
Clause	Requirement + Test Result - Remark	Verdic
S.1	Test equipment	N/A
S.2	Test procedure	N/A
S.3	Examples of waveforms during impulse testing	N/A
		L
Т	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)	N/A
		_
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)	N/A
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)	N/A
V.1	Introduction	N/A
V.2	TN power distribution systems	N/A
V.E	TV perior distribution systems	1071
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)	N/A
X.1	Determination of maximum input current	N/A
X.2	Overload test procedure	N/A
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	N/A
Y.1	Test apparatus	N/A
Y.2	Mounting of test samples	N/A
Y.3	Carbon-arc light-exposure apparatus:	N/A
Y.4	Xenon-arc light exposure apparatus:	N/A
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)	Р

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	N/A
	•		•
ВВ	ANNEX BB, CHANGES IN THE SECOND E	DITION	_

СС	ANNEX CC, Evaluation of integrated circuit (IC) current limiters	
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		N/A
DD.2	Mechanical strength test, variable N		N/A
DD.3	Mechanical strength test, 250 N, including end stops		N/A
DD.4	Compliance. :		N/A

EE	ANNEX EE, Household and home/office document/media shredders	N/A
EE.1	General	N/A
EE.2	Markings and instructions	N/A
	Use of markings or symbols	N/A
	Information of user instructions, maintenance and/or servicing instructions	N/A
EE.3	Inadvertent reactivation test	N/A
EE.4	Disconnection of power to hazardous moving parts:	N/A
	Use of markings or symbols	N/A
EE.5	Protection against hazardous moving parts	N/A
	Test with test finger (Figure 2A)	N/A
	Test with wedge probe (Figure EE1 and EE2):	N/A

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

1.5.1	TABLE: list of c	ritical components			Р
Object/part no.	Manufacture/ trademark	Type/model	Technical data	standard	Mark(s) of conformity 1)
LCD Panel with LED	IVO M156NWR* (*can be 0-9, A-Z or blank)	(*can be 0-9, A-Z	15.6 inch panel with LED backlight	IEC 60950-1	Tested in equipment
backlight		The declared power consumption is 5.0W and backlight input voltage is 12V in specification.			
	AUO	(*can be 0-9, A-Z or blank)	15.6 inch panel with LED backlight	IEC 60950-1	Tested in equipment
			The declared power consumption is 4.5W and backlight input voltage is 12V in specification.		
	INNOLUX (*can be 0-9, A-Z L or blank) T	15.6 inch panel with LED backlight	IEC 60950-1	Tested in equipment	
		The declared power consumption is 5.04W and backlight input voltage is 12V in specification.			
	(*can be 0-9, A-Z or blank)	15.6 inch panel with LED backlight	IEC 60950-1	Tested in equipment	
		The declared power consumption is 5.19W and backlight input voltage is 12V in specification.			
	BOE	HB156WX*-*** (*can be 0-9, A-Z	15.6 inch panel with LED backlight	IEC 60950-1	Tested in equipment
		or blank)	The declared power consumption is 4.9W and backlight input voltage is 12V in specification.		
	SAMSUNG LTN156AT**	15.6 inch panel with LED backlight	IEC 60950-1	Tested in equipment	
		or blank)			

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

Plastic enclosure	LOTTE ADVANCED MATERIALS CO LTD	SD-0150(+), VH-0810(+), VE-0812(+), NH-1000T(+)(&), GC- 0700(+++)(RR28), GC-0700A(RR), GC- 0750(+)(RR70), GC- 1017(+)(RR30), VE-1890(+), BF-0675(+), BF-0675(+), NH-1017T, NH-1017T, NH-1017T, NH-1017SG(+), BF-0677(+), HS-7000(+), HG-0760(+), NE-1030(+), HR-1360(+), LX-0957(+), TH-1100(+), TN-1100(+)	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E115797)
	GRAND PACIFIC PETROCHEMIC AL CORP	D-150, D-1000, D-1000A	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E88637)
	CHI MEI CORPORATION	PA-757(+), PH-88, PA-756S	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E56070)
	ALBIS PLASTIC GMBH	GP-35, GP-22, 495F	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E80168)
	COVESTRO DEUTSCHLAND AG [PC RESINS]	FR3000 series, FR3005 series	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E41613)

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

LG CHEM LTD	HF350(#), HF380(m), HF380(W), HF380(#), HF-380(#), HF-380(m), HF-380, HF-380NS, HF-380NS, HF380X, AF312T1, AF342T1, LUPOY GN-5001TF(#), GN-5001RFD, LUPOY GN-5008HF(#), LUPOY GP-5008BF(#), SE750(#), XG568(#), XG569(#), GP-1000F(#), SE750(#), LUPOY GN-5001RF(T)	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E67171)
GRAND PACIFIC PETROCHEMIC AL CORP	D-150, D-1000, D-1000A	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E98529, E244324)
CHI MEI CORPORATION	PA-757(+), PH-88, PA-756S	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E345434)
COVESTRO DEUTSCHLAND AG [PC RESINS]	FR3000 series, FR3005 series	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E73656)

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

LG CHEM L		HB or better,	UL 94	UL (E171666)
	HF380(m),	2.0mm thickness		
	HF380NS, HF380(#),	min. 60°C		
	HF-380(#),			
	HF-380(m),			
	HF-380,			
	HF-380NS,			
	HF380X,			
	AF312T1,			
	AF342T1,			
	LUPOY GN-			
	5001TF(#),			
	GN-5001RFD,			
	LUPOY GN-			
	5008HF(#),			
	LUPOY GP-			
	5008BF(#),			
	SE750(#),			
	XG568(#),			
	XG569(#), GP-1000L,			
	GP-1000E, GP-1000F(#),			
	GP-1000(m)(#),			
	LUMILOY GP-			
	1000(#),			
	SE750(#),			
	LUPOY GN-			
	5001RF(T),			
	SE885(#),			
	HF388(#)			

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

KINGFA SCI & TECH CO LTD	4418, 5197, FRABS-518, HIPS-5197, HF-606, HF-626, FRABS-518, GAR-011C, JH960 6(M), FRHIPS-960, RS-900, RS-300, RS-400, GAR-011(L65), GAR-011(L85), GAR-011(HG6), CK-100, CK-900, CK-55111, JH960 6(M), FRHIPS-960, HIPS-4418, HIPS-3399, HIPS-HG(ee), HIPS-HG(ee), HIPS-510 (o), HIPS-510 (o), HIPS-550, CK-61(M) (##), RS-(hh)0, HP-126, ABS-660, ABS-122, GAR-332, GAR-332, GAR-332, GAR-220, H12, G360, CK-55(M) (##), CK-58(M) (##), CK-58(M) (##), GAR-011C, GAR-011(WW)	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E230779)
QINGDAO HAIER NEW MATERIAL R & D CO LTD	HRABS-RS, HRABS-HG, CR-3002	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E328304)
DONGGUAN HINGLONG PLASTIC TECHNOLOGY CO LTD	HL-ABS-PCR85, HL-ABS-PCR65, HL-ABS-PCR35	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E345434)

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

ORINKO (HEFEI) ADVANCED PLASTIC CO LTD	ABS-3070H, HIPS-2000	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E328304)
WISTRON ADVANCED MATERIALS (KUNSHAN) (LTD	GA(M)(b)(c)	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E310240)
UNIC TECHNOLOG CORP	UR-3006+(RXX), UR-200+	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E135175)
GUO HENG (DONGGUAN	YOUHO(####)(Y)	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E471190)
HUIZHOU WOTE	2100	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E310240)
TEIJIN LIMIT RESIN AND PLASTIC	TN-7500(c), TN-7500F(#), MN-3600V(#), MN-3600H(#)	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E98529)
INEOS STYROLUTIO GROUP GMB	7	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E108538)
STYRON	STYRON A-TECH 1200	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E162447)
TOTAL PETROCHEN ALS SOUTH EAST ASIA P LTD		HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E314268)
DOOSAN CORPORATIO ELECTRO- MATERIALS I	DS-7106	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E103670)
SABIC JAPAN L C	C6600(GG)(X)(VS), C6600E (VS)(X)	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E207780)
PONTEX	AFE5000N, AFE5100N, 9004BK	HB or better, 2.0mm thickness min. 60°C	UL 94	UL (E205938)

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

	Interchangeable	Interchangeable	HB or better, 2.0mm thickness min. 60°C	UL 94	UL
Metal enclosure	Interchangeable		Metal thickness: min. 0.4mm		
Base stand (optional)	Interchangeable	Interchangeable	HB or better material and metal	UL 94	UL
PCB	Interchangeable	Interchangeable	V-1 or better, min. 105°C	UL 94	UL

Note(s):

1. An asterisk indicates a mark that assures the agreed level of surveillance.

1.6.2 TABLE: electrical data (in normal conditions)									
U (V) I (A) Irated (A) P (W) Fuse # Ifuse (A) Condition/status									
Test with main board 715G5971									
Tested with panel CLAA156WB11* (CPT), USB mode									
4.8 1.4 2.0 6.74 Maximum normal load									
Maximum normal load: maximum brightness, maximum contrast, full white screen.									
				56WB11* (CF ble 1.5.1 for th	, .	has the high	est power consumption	า	

1.6.2 TABLE: electrical data (in normal conditions)										
U (V) I (A) Irated (A) P (W) Fuse # Ifuse (A) Condition/status										
Test with main board 715G9000										
Tested with panel CLAA156WB11* (CPT), USB mode										
5.0 1.3 1.5 6.40 Maximum normal load								d		
Supple screen		ntary info	mation: Maxi	mum normal	load: maximu	um brightnes	s, maximum contrast,	full white		

2.2	TABLE: Hazardous voltage measu	ırement	ement				
Component (measured between)			Itage (V) operation)	Voltage Limit Components	_		
		V peak	V d.c.				
Test wit	h main board 715G5971						
CN701 (board)	output to panel (after D701) (on main		11.5				
Fault tes	st performed on voltage limiting ents	Voltaç	Voltage measured (V) in SELV circui (V peak or V d.c.)				

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

D/01 s-c 0

2.2	TABLE: Hazardous voltage measu	ırement		Р		
Component	(measured between)	max. voltage (V) (normal operation)		Voltage Limit Components	ing	
		V peak	V d.c.			
Test with main board 715G9000						
CN301 outp board)	ut to panel (after R313) (on main		14.3			
Fault test pe	erformed on voltage limiting	Voltage measured (V) in SELV circuits (V peak or V d.c.)			ts	
R313 s-c	0					
Supplement	ary information:					

4.5	TABLE: Thermal req	5						Р	
	Supply voltage (V)			5Vdc					_
	Ambient T _{min} (°C)								_
	Ambient T _{max} (°C)								_
Maximum measured temperature T of part/at:			T (°C)					Allowed T _{max} (°C)	
Test with r	nain board 715G5971			•					
PCB near l	JSB connector (on USB	board)		35.9					87.4
PCB near L701 (on main board)				42.1					87.4
PCB near U703 (on main board)				45.4					87.4
PCB near L703 (on main board)			45.9					87.4	
PCB near [0701 (on main board)			48.7					87.4
PCB near l	J401 (on main board)			42.9					87.4
PCB near l	J402 (on main board)			44.8					87.4
Plastic enc	losure inside			32.2					
Plastic enclosure outside				27.1					42.4
Panel surface				35.9					77.4
Ambient			22.4						
Temperatu	re T of winding:	t ₁ (°C)	R ₁	(Ω)	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulation class

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

Supplementary information:

- 1. The temperatures were measured under the worst case normal mode defined in 1.2.2.1 and as described in sub-clause 1.6.2 at voltages as described above.
- 2. With a specified ambient temperature of 35°C. Temperature limits are calculated as follows: Components with maximum absolute temperature of others:
 - Tmax = Tmax of component 40 + 22.8

4.5	TABLE: Thermal req	uirements	S						Р
	Supply voltage (V)			5Vdd	5Vdc				
	Ambient T _{min} (°C)								
Ambient T _{max} (°C)								_	
Maximum measured temperature T of part/at:			T (°C)					Allowed T _{max} (°C)	
Test with main board 715G9000									
PCB near USB connector (on USB board)				30.3					87.4
PCB near L701 (on main board)				30.0					87.4
PCB near U703 (on main board)				29.3					87.4
PCB near L703 (on main board)			28.7					87.4	
PCB near D301 (on main board)			28.7					87.4	
PCB near	U401 (on main board)			29.5					87.4
PCB near	U402 (on main board)			28.7					87.4
Plastic end	closure inside			22.5					
Plastic end	closure outside			29.4					42.4
Panel surface				26.3					77.4
Ambient				22.4					
Temperatu	re T of winding:	t ₁ (°C)	R ₁	(Ω)	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulation class

Supplementary information:

- 1. The temperatures were measured under the worst case normal mode defined in 1.2.2.1 and as described in sub-clause 1.6.2 at voltages as described above.
- 2. With a specified ambient temperature of 35°C. Temperature limits are calculated as follows: Components with maximum absolute temperature of others:
 - Tmax = Tmax of component 40 + 22.8

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

5.3	TABLE: Fault c	ondition tes	sts					Р
	Ambient temper	ature (°C)			:	See b	elow	_
	Power source fo output rating							_
Componen No.	t Fault	Supply voltage (V)	Test time	Fuse #		use urrent (A)	Observation	
Test with ma	ain board 715G	5971						
D701	S-C	5Vdc	5 min				Unit shut down, no hazar	d.
L701	S-C	5Vdc	5 min				Unit shut down, no hazar	d.
C709	S-C	5Vdc	5 min				Unit shut down, no hazard.	
U703 pin 1-3	s-c	5Vdc	5 min				Unit shut down, no hazard.	
Supplement	tary information	1:		1			1	
1. In fault col	lumn where s-c=	-chart circuit	od oleo	hahsolray				

1. In fault column, where s-c=short-circuited, o-l=overloaded.

5.3	TABLE: Fault	condition tes	sts					Р
	Ambient tempe	erature (°C)			: 5	See be	elow	
	Power source output rating							_
Componer No.	nt Fault	Supply voltage (V)	Test time	Fuse #	cur	use rent A)	Observation	
Test with m	ain board 7150	39000						
D301	S-C	5Vdc	5 min				Unit shut down, no hazar	d.
L701	S-C	5Vdc	5 min				Unit shut down, no hazar	d.
C709	S-C	5Vdc	5 min				Unit shut down, no hazard.	
U703 pin1-3	J703 pin1-3 s-c 5Vdc 5 min Unit shut down, no hazard.				d.			
Supplemen	itary information	n:					1	
1. In fault co	olumn, where s-	c=short-circuit	ed, o-l=o\	verloaded.				

IEC60950_1F - 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_1F

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EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013 – CENELEC COMMON MODIFICATIONS

	IEC 60950-1, GRO	OUP DIFFER	ENCES (CEN	ELEC comm	non modifications EN)	
Clause	Requirement + Tes	st		Resu	ılt - Remark	Verdict
	Clauses, subclaus IEC60950-1 and it				additional to those in	Р
Contents	Add the following a	annexes:				Р
	Annex ZA (normat	ive)		with their co	international orresponding European	
(A2:2013)	Annex ZB (normat Annex ZD (informat	,			ns e designations for	
General	Delete all the "country" notes in the reference document (IEC 60950-1:2005) according to the following list:					Р
	2.2.3 Note 2.3.2.1 Note 2	5.1.7.1 6.1.2.1 6.2.2.1	Note 3. Note 4	1.7.2.1 2.3.2 2.6.3.3 2.10.5.13 2.5.1 4.7.2.2 5.3.7 6.1.2.2	Note Note 4, 5 & 6 Note Note 2 & 3 Note 3 Note 2 Note Note 1 Note Note Note Note Note Note Note Note	
General (A1:2010)	Delete all the "counti-2005/A1:2010) at 1.5.7.1 Note 6.2.2.1 Note	ccording to t			EC 60950-	P

IEC60950_1F - ATTACHMENT					
Clause	Requirement + Test		Result - Remark	Verdict	

IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)					
Clause	Requirement + Test	Result - Remark	Verdict		
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.				
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.				
1.3.Z1	Add the following subclause: 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. 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.	Added.	N/A		
(A12:2011)	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	Deleted.	N/A		
1.5.1 (Added info*)	Add the following NOTE: 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 *	Added.	P		
1.7.2.1 (A1:2010)	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.	Added.	N/A		
1.7.2.1 (A12.2011)	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.		N/A		

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

Clause	Requirement + Test	Result - Remark	Verdict	
	Zx Protection against excessive sound pressure from personal music players			
	Zx.1 General	Not personal music player	N/A	
	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.			
	A personal music player is a portable equipment for personal use, that:			
	□ is designed to allow the user to listen to recorded or broadcast sound or video; and			
	□□primarily uses headphones or earphones that can be worn in or on or around the ears; and			
	$\hfill\Box$ allows the user to walk around while in use.			
	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.			
	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.			
	The requirements in this sub-clause are valid for music or video mode only.			
	The requirements do not apply:			
	□ while the personal music player is connected to an external amplifier; or			
	□ while the headphones or earphones are not used.			
	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.			
	The requirements do not apply to:			
	hearing aid equipment and professional equipment;			
	NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.			

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

Clause	Requirement + Test	Result - Remark	Verdict
	□□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. 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.		
	For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.		
	Zx.2 Equipment requirements	Not such equipment.	N/A
	No safety provision is required for equipment that complies with the following:		
	□ equipment provided as a package (personal music player with its listening device), where		
	the acoustic output L _{Aeq,⊤} is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and		
	□□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.		
	NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level $L_{\text{Aeq,T}}$ is meant. See also Zx.5 and Annex Zx.		
	All other equipment shall:		
	a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and		
	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		

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

	IEC 60950-1, GROUP DIFFERENCES (CENELEC	common modifications EN)	
Clause	Requirement + Test	Result - Remark	Verdict
	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		
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always required.		
	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.		
	d) have a warning as specified in Zx.3; and		
	e) not exceed the following:		
	 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 		
	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.		
	For music where the average sound pressure (long term LAeq,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.		
	NOTE 4 Classical music typically has an average sound pressure (long term $L_{\text{Aeq},T}$) 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.		
	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 acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dBA.		

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

	IEC 60950-1, GROUP DIFFERENCES (CENELEC	1	1
Clause	Requirement + Test	Result - Remark	Verdict
	The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following:	Not such equipment	N/A
	Zx.4 Requirements for listening devices (headpl	nones and earphones)	N/A
	Zx.4.1 Wired listening devices with analogue input 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. 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). NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.	Not such equipment	N/A

Page 7 of 58 Report No.: 17059693 001

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

Clauss	IEC 60950-1, GROUP DIFFERENCES (CENELEC		
Clause	Requirement + Test	Result - Remark	Verdict
	Zx.4.2 Wired listening devices with digital input 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. This requirement is applicable in any mode where the headphones can operate, including any available setting (for example built-in volume level control, additional sound feature like equalization, etc.). NOTE An example of a wired listening device with digital input is	Not such equipment	N/A
	a USB headphone. Zx.4.3 Wireless listening devices	Not such equipment	N/A
	In wireless mode:	That addit equipment	13/7
	□ 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.		
	NOTE An example of a wireless listening device is a Bluetooth headphone.		
	Zx.5 Measurement methods	Not such equipment	N/A
	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.		
	NOTE Test method for wireless equipment provided without listening device should be defined.		

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

	IEC 60950-1, GROUP DIFFERENCES (CENELEC	common modifications EN)	
Clause	Requirement + Test	Result - Remark	Verdict
2.7.1	Replace the subclause as follows: Basic requirements 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): 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	Class III equipment	N/A
	devices in the building installation; c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	Class III equipment	N/A
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.	Unit is not a permanently connected equipment.	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.	No power supply cord provided.	N/A
3.2.5.1 (A2:2013)	NOTE Z1 The harmonised code designations corresponding to the IEC cord types are given in Annex ZD		N/A

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

	IEC 60950-1, GROUP DIFFERENCES (CENELEC	common modifications EN)	
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
	Delete the fifth line: conductor sizes for 13 to 16 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 (artifical optical radiation).		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 96/29/Euratom. Delete NOTE 2.		N/A
Bibliograph y	Additional EN standards.		

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH	
	THEIR CORRESPONDING EUROPEAN PUBLICATIONS	

	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
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.		N/A	
1.2.13.14 (A11:2009)	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.		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 resistors.	N/A	

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
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).		N/A	
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.		N/A	
1.7.2.1 (A11:2009)	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. The marking text in the applicable countries shall be as follows: In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples jordet stikkontakt" In Sweden: "Apparaten skall anslutas till jordat uttag" 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 not 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. 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. 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: "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)."		N/A	

	IEC60950_1F - ATTACHM	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
	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. Translation to Norwegian (the Swedish text will		
	also be accepted in Norway): "Utstyr som er koplet til beskyttelsesjord via		
	nettplugg og/eller via annet jordtilkoplet		
	utstyr – og er tilkoplet 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 medfőra risk főr		
	brand. Főr att undvika detta skall vid anslutning av utrustningen till kabel-TV nät		
	galvanisk isolator finnas mellan utrustningen och kabel-TV nätet."		
1.7.2.1 (A2:2013)	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.		N/A
	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."		
1.7.5	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.	No socket-outlet provided.	N/A
1.7.5 (A11:2009)	For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.		

	IEC60950_1F - ATTACHM	EN I	
Clause	Requirement + Test	Result - Remark	Verdict
1.7.5 (A2:2013)	In Denmark , socket-outlets for providing power to other equipment shall be in accordance with the DS 60884-2-D1:2011.	No socket-outlet provided.	N/A
	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.		
	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.		
	Justification the Heavy Current Regulations, 6c		
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.	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.	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.	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.		N/A
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.		N/A
3.2.1.1	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: SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A	No supply cords provided.	N/A

	IEC60950_1F - ATTACHM	ENT	
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 5934-2.1998: Plug Type 21, L+N, 250 V, 16A		
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.	No supply cords provided.	N/A
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	No supply cords provided.	N/A

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
3.2.1.1	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. 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. CLASS I EQUIPMENT provided with socket-outlets	No supply cords provided.	N/A	
	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.			
	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.			
3.2.1.1	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. NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	No supply cords provided.	N/A	
3.2.1.1	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.	No supply cords provided.	N/A	
3.2.4	In Switzerland , for requirements see 3.2.1.1 of this annex.		N/A	
3.2.5.1	In the United Kingdom , a power supply cord with conductor of 1,25 mm2 is allowed for equipment with a rated current over 10 A and up to and including 13 A.	No supply cords provided.	N/A	
3.3.4	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: • 1,25 mm² to 1,5 mm² nominal cross-sectional area.	No supply cords provided.	N/A	

	IEC60950_1F - ATTACHN	ENT	
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: • STATIONARY PLUGGABLE EQUIPMENT TYPE A that 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.	Class III equipment	N/A
6.1.2.1 (A1:2010)	In Finland, Norway and Sweden, add the following text between the first and second paragraph of the compliance clause: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either - two layers of thin sheet material, each of which shall pass the electric strength test below, or - one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. 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	No connection to telecommunication networks.	N/A

	IEC60950_1F - ATTACHM	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
	accordance with the compliance clause below and in addition - 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.		
	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b). It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2. A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions: - the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 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		N/A
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 connection to telecommunication networks.	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 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 cable distribution system.	N/A

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

Annex ZD (informative)

IEC and CENELEC code designations for flexible cords

Type of flexible cord	Code desi	gnations
	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

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

CANADA NATIONAL DIFFERENCES

Information technology equipment – Safety – Part 1: General requirements

	Special national conditions		
1.1.1	All equipment is designed as to allow installation in accordance with the National Electrical Code (NEC), ANSI/NFPA 70, Canadian Electrical Code (CEC), Part I, CAN/CSA C22.1, and if applicable, the National Electrical Safety Code, IEEE C2	In accordance with the National Electrical Code (NEC), ANSI/NFPA 70, and unless marked or otherwise identified, the Standard for Electronic Computer/Data-Processing Equipment, ANSI/NFPA 75.	P
	Also, unless marked or otherwise identified, installation is allowed per the Standard for the Protection of Electronic Computer/Data-Processing Equipment, ANSI/NFPA 75		Р
1.1.2	Baby monitors are required to additionally comply with ASTM F2951, Consumer Safety Specification for Baby Monitors		N/A
1.4.14	For Pluggable Equipment Type A, the protection in the installation is assumed to be 20A	Class III equipment.	N/A
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	No external cable provided.	N/A
	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		N/A
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	Class III equipment.	N/A
	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		N/A
	- if it is part of a range that extends into the Table 2 "Normal Operating Conditions"		N/A
	Likewise, a voltage rating is not to be lower than the specified "Normal Operating Conditions," unless it is part of a range that extends into the "Normal Operating Conditions"		N/A

Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement i Test	Tresuit - Tremain	Verdict
1.7.7	Wiring terminals intended to supply Class 2 outputs in accordance with NEC or CEC Part 1 or NEC are marked with the voltage rating and "Class 2" or equivalent	No wiring terminals.	N/A
	- Marking is located adjacent to the terminals		N/A
	- Marking is visible during wiring		N/A
2.5	Fuse providing Class 2, Limited Power Source, or TNV current limiting is not operator-accessible unless it is not interchangeable	Class III equipment	N/A
2.6	Equipment with isolated ground (earthing) receptacles is in compliance with NEC 250.146(D) and CEC 10-112 and 10-906(8)		N/A
2.7.1	Suitable NEC/CEC branch circuit protection rated at the maximum circuit rating is provided for all standard supply outlets and receptacles (such as supplied in power distribution units) if the supply branch circuit protection is not suitable.	No such components provided.	N/A
	Power distribution transformers distributing power at 100 volts or more, and rated 10 kVA or more, provided with special transformer overcurrent protection		N/A
3.2	Wiring methods (terminals, leads, etc.) used for the connection of the equipment to the mains is in accordance with the NEC/CEC		N/A
3.2.1	Attachment plugs of power supply cords are rated not less than 125 percent of the rated current of the equipment		N/A
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 comply with special earthing, wiring, marking and installation instruction requirements	No power supply cord provided.	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	No connection to a centralized d.c. power system.	N/A
3.2.5	Power supply cords are no longer than 4.5 m in length	Class III equipment	N/A
	Minimum cord length is 1.5 m, with certain constructions such as external power supplies allowed to consider both input and output cord lengths into the requirement		N/A
	Flexible power supply cords are compatible with Article 400 of the NEC, and Tables 11 and 12 of the CEC		N/A
3.2.9	Permanently connected equipment has a suitable wiring compartment and wire bending space	Class III equipment	N/A

	IEC60950_1F - ATTACHMI	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
3.3	Wiring terminals and associated spacings for field wiring connections comply with CSA C22.2 No. 0	No wiring terminals.	N/A
3.3.3	Wire binding screws are not attached with conductors larger than 10 AWG (5.3 mm²)	No wire binding screws.	N/A
3.3.4	Terminals for permanent wiring, including protective earthing terminals, are suitable for Canadian/US wire gauge sizes, are	Class III equipment	N/A
	- rated 125 per cent of the equipment rating, and		N/A
	- are specially marked when specified (1.7.7)		N/A
3.3.5	Revise first column of Table 3E to "Smaller of the RATED CURRENT of the equipment or the PROTECTIVE CURRENT RATING of the circuit under consideration"	Class III equipment	N/A
3.4.2	Motor control devices are provided for cord-connected equipment with a motor if the equipment is rated more than 12 A,	Equipment is not such a device.	N/A
	- or if the motor has a nominal voltage rating greater than 120 V		N/A
	- or is rated more than 1/3 hp (locked rotor current over 43 A)		N/A
3.4.8	Vertically-mounted disconnect switches and circuit breakers have the "on" position indicated by the handle in the up position	No such devices incorporated.	N/A
3.4.11	For computer room applications, equipment with battery systems capable of supplying 750 VA for five minutes have a battery disconnect means that may be connected to the computer room remote power-off circuit	Not such an application.	N/A
4.3.12	The maximum quantity of flammable liquid stored in equipment complies with NFPA 30	No liquids.	N/A
4.3.13.5.1	Equipment with lasers meets the U.S. Code of Federal Regulations 21 CFR 1040 (and the Canadian Radiation Emitting Devices Act, REDR C1370).	No lasers.	N/A
4.7	For computer room applications, automated information storage systems with combustible media greater than 0.76 m³ (27 cu ft) have a provision for connection of either automatic sprinklers or a gaseous agent extinguishing system with an extended discharge	Not such an application.	N/A
4.7.3.1	For computer room applications, enclosures with combustible material measuring greater than 0.9m ² (10 sq ft) or a single dimension greater than 1.8 m (6 ft) have a flame spread rating of 50 or less	Not such an application.	N/A
	For other applications, enclosures with the same dimensions require a flame spread rating of 200 or less		N/A

	IEC60950_1F - ATTACHM	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
Annex H	Equipment that produces ionizing radiation complies with U.S. Code of Federal Regulations, 21 CFR 1020 (and the Canadian Radiation Emitting Devices Act, REDR C1370)	Equipment is not such a device.	N/A
	Other National Differences		
1.5.1	Some components and materials associated with the risk of fire, electric shock, or personal injury have component or material ratings in accordance with the applicable national (Canadian and/or U.S.) component or material standard requirements.	Complied. See table 1.5.1	P
	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 cut-offs, thermostats, (multi-layer) transformer winding wire, surge protective devices, tubing, vehicle battery adapters, wire connectors, and wire and cables		
1.6.1.2	A circuit for connection to the DC Mains Supply is classified as a SELV Circuit, TNV-2 Circuit or Hazardous Voltage Circuit depending on the maximum operating voltage of the supply	No connection to the DC Mains Supply.	N/A
	This maximum operating voltage includes consideration of the battery charging "float voltage" associated with the intended supply system, regardless of the marked power rating of the equipment		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 Vd.c., the maximum acceptable current through a 2000 ohm resistor (or greater) connected across the voltage source with other loads disconnected is 7.1 mA peak or 30 mA d.c. under normal operating conditions	No TNV circuits.	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 circuits.	N/A

	IEC60950_1F - ATTACHM	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
2.6.2	Equipment with functional earthing marked with the functional earthing symbol (IEC 60417-6092)		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	Class III equipment	N/A
4.2.8.1	Enclosures around CRTs with a face diameter of 160 mm or more reduce the risk of injury due to the implosion of the CRT	No CRTs.	N/A
4.3.2	Equipment with handles complies with special loading tests	No handles.	N/A
4.3.8	Battery packs for both portable and stationary applications comply with special component requirements		N/A
5.1.8.3	Equipment intended to receive telecommunication ringing signals comply with a special touch current measurement tests	No TNV.	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 overloaded		N/A
	During abnormal operating testing, if a circuit is interrupted by the opening of a component, the test is repeated twice (three tests total) using new components as necessary		N/A
6.4	Equipment intended for connection to telecommunication network outside plant cable is protected against overvoltage from power line crosses in accordance with 6.4 and Annex NAC	No TNV.	N/A
Annex EE	Articulated accessibility probe (Fig EE.3) is used for assessing accessibility to document/media shredders instead of the Figure 2A test finger	No document (paper) shredder.	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 TNV.	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 comply with special acoustic pressure requirements	No TNV.	N/A

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60950-1 FINLAND NATIONAL DIFFERENCES

Information technology equipment – Safety –

Part 1: General requirements

Differences according to..... EN 60950-1:2006/A11:2009/A1:2010

Attachment Form No...... FI_ND_IEC60950_1C

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	National Differences		
General	See also Group Differences (EN 60950-1:2006/A11/A1)		
1.5.7.1	In Finland 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.		N/A
1.5.9.4	In Finland , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.	No such construction.	N/A
1.7.2.1	In Finland ,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. The marking text in in Finland shall be as follows: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"		N/A
2.3.2	In Finland , there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.	No TNV.	N/A
2.10.5.13	In Finland , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.	No TNV.	N/A

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
5.1.7.1	In Finland, TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: • STATIONARY PLUGGABLE EQUIPMENT TYPE A that - 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.	Class III equipment	N/A	
6.1.2.1 (A1:2010)	In Finland, add the following text between the first and second paragraph of the compliance clause: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either - two layers of thin sheet material, each of which shall pass the electric strength test below, or - one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. Alternatively for components, there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition - passes the tests and inspection criteria of 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.		N/A	

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).			
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.			
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:			
	- the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14:2005 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 60384-14:2005;			
	- the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14:2005, in the sequence of tests as described in EN 60384-14:2005.			
6.1.2.2	In Finland , 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.	N/A	
7.2	In Finland , 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	Not connected to cable distribution system.	N/A	

Page 26 of 58 Report No.: 17059693 001

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60950-1 GERMANY NATIONAL DIFFERENCES

Information technology equipment – Safety –

Part 1: General requirements

Differences according to VDE 0805-1:2011-01

Annex ZC,	According to GPSG, section 2, clause 4:	N/A
1.7.2.1	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.	

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60950-1 ISRAEL NATIONAL DIFFERENCES

Information technology equipment – Safety –

Part 1: General requirements

Differences according to SI 60950 Part 1

1.1.1	Replace the the text of Note 3 as follows: The requirements of Israel Standard SI 60065	Replaced.	Р
	may also be used to meet safety requirements for multimedia equipment. See IEC Guide 112, Guide on the safety of multimedia equipment.		
1.6	The clause is applicable with the following addition:		Р
1.6.1	Add following note: In Israel, this clause is applicable subject to the Electricity Law, 1954, its regulations and revisions.	Added	Р
1.7	The clause is applicable with the following additions: Subclause 1.7.201 shall be added at the beginning of the clause as follows:	Added	N/A
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. The details shall be marked on the apparatus or on its package, or on a label properly attached to the apparatus or on the package, by bonding or sewing, in a manner that the label cannot be easily removed. 1. Name of the apparatus and it commercial designation; 2. Manufacturer's name and address. If the apparatus is imported, the importer's name and address; 3. Manufacturer's registered trademark, if any; 4. Name of the model and serial number, if any; 5. Country of manufacture.		N/A
1.7.2.1	The following shall be added to the clause: All the instructions and warnings related to safety shall also be written in the Hebrew language.	Added	N/A
2	The clause is applicable with the following additions:		N/A

	IEC60950_1F - ATTACHM	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
2.9.4	The following shall be added at the beginning of the clause: In Israel, according to the Electricity Law, 1954, and the Electricity Regulations (Earthing and means of protection against electricity of voltages up to 1,000V) 1991, seven means of protection against electrocution are permitted, as follows: 1) TN-S - Network system earthing; TN-C-S - Network system earthing; 2) TT - Network system earthing; 3) IT - Network Insulation Terre; 4) Isolated transformer; 5) Safety extra low voltage (SELV or ELV); 6) Residual current circuit breaker (30 mA = IΔ); 7) Reinforced insulation; Double insulation (class II)	Class III equipment	N/A
2.201	Prevention of electromagnetic interference - Prior to carrying out the tests in accordance with the clauses of this Standard, the compliance of the apparatus with the relevant requirements specified in the appropriate part of the Standard series, SI 961, shall be checked. The apparatus shall meet the requirements in the appropriate part of the Standard series, SI 961 If there are components in the apparatus for the prevention of electromagnetic interference, these components shall not reduce the safety level of the apparatus as required by this Standard.		N/A
3	The clause is applicable with the following additions:		
3.2.1.1	Connection to an a.c. mains supply After the note, the following note shall be added: Note: In Israel, the feed plug shall comply with the requirements of Israel Standard SI 32 Part 1.1.	No feed plug provided.	N/A
3.2.1.2	Connection to a d.c. mains supply At the end of the first paragraph, the following note shall be added: Note: At the time of issue of this Standard, there is no Israel Standard for connection accessories to d.c.	No connected to d.c. mains supply	N/A
Annex P	Normative references (List of relevant Israel Standards that have been inserted in place of some of the International Standards)	Inserted	Р

	IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict	

ATTACHMENT TO TEST REPORT IEC 60950-1 KOREA NATIONAL DIFFERENCES

Information technology equipment – Safety –

Part 1: General requirements

Differences according to K 60950-1

1.5.101	Plugs for the connection of the apparatus to the supply mains shall comply with the Korean requirement (KSC 8305)	No power supply cord provided.	N/A
8	EMC The apparatus shall comply with the relevant CISPR standards.		N/A

	IEC60950_1F - 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_1F

 Attachment Originator:
 UL

 Master Attachment:
 Date 2014-07

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	Special national conditions		
1.1.1	All equipment is designed as to allow installation in accordance with the National Electrical Code (NEC), ANSI/NFPA 70, Canadian Electrical Code (CEC), Part I, CAN/CSA C22.1, and if applicable, the National Electrical Safety Code, IEEE C2	In accordance with the National Electrical Code (NEC), ANSI/NFPA 70, and unless marked or otherwise identified, the Standard for Electronic Computer/Data-Processing Equipment, ANSI/NFPA 75.	Р
	Also, unless marked or otherwise identified, installation is allowed per the Standard for the Protection of Electronic Computer/Data-Processing Equipment, ANSI/NFPA 75		Р
1.1.2	Baby monitors are required to additionally comply with ASTM F2951, Consumer Safety Specification for Baby Monitors		N/A
1.4.14	For Pluggable Equipment Type A, the protection in the installation is assumed to be 20A	Class III equipment.	N/A
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	No external cable provided.	N/A
	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		N/A
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	Class III equipment.	N/A
	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		N/A

IEC60950_1F - ATTACHMENT					
Clause	Requirement + Test	Result - Remark	Verdict		
	- if it is part of a range that extends into the Table 2 "Normal Operating Conditions"		N/A		
	Likewise, a voltage rating is not to be lower than the specified "Normal Operating Conditions," unless it is part of a range that extends into the "Normal Operating Conditions"		N/A		
1.7.7	Wiring terminals intended to supply Class 2 outputs in accordance with NEC or CEC Part 1 or NEC are marked with the voltage rating and "Class 2" or equivalent	No wiring terminals.	N/A		
	- Marking is located adjacent to the terminals		N/A		
	- Marking is visible during wiring		N/A		
2.5	Fuse providing Class 2, Limited Power Source, or TNV current limiting is not operator-accessible unless it is not interchangeable	Class III equipment	N/A		
2.6	Equipment with isolated ground (earthing) receptacles is in compliance with NEC 250.146(D) and CEC 10-112 and 10-906(8)		N/A		
2.7.1	Suitable NEC/CEC branch circuit protection rated at the maximum circuit rating is provided for all standard supply outlets and receptacles (such as supplied in power distribution units) if the supply branch circuit protection is not suitable.	No such components provided.	N/A		
	Power distribution transformers distributing power at 100 volts or more, and rated 10 kVA or more, provided with special transformer overcurrent protection		N/A		
3.2	Wiring methods (terminals, leads, etc.) used for the connection of the equipment to the mains is in accordance with the NEC/CEC		N/A		
3.2.1	Attachment plugs of power supply cords are rated not less than 125 percent of the rated current of the equipment		N/A		
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 comply with special earthing, wiring, marking and installation instruction requirements	No power supply cord provided.	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	No connection to a centralized d.c. power system.	N/A		
3.2.5	Power supply cords are no longer than 4.5 m in length	Class III equipment	N/A		

	IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		
	Minimum cord length is 1.5 m, with certain constructions such as external power supplies allowed to consider both input and output cord lengths into the requirement		N/A		
	Flexible power supply cords are compatible with Article 400 of the NEC, and Tables 11 and 12 of the CEC		N/A		
3.2.9	Permanently connected equipment has a suitable wiring compartment and wire bending space	Class III equipment	N/A		
3.3	Wiring terminals and associated spacings for field wiring connections comply with CSA C22.2 No. 0	No wiring terminals.	N/A		
3.3.3	Wire binding screws are not attached with conductors larger than 10 AWG (5.3 mm²)	No wire binding screws.	N/A		
3.3.4	Terminals for permanent wiring, including protective earthing terminals, are suitable for Canadian/US wire gauge sizes, are	Class III equipment	N/A		
	- rated 125 per cent of the equipment rating, and		N/A		
	- are specially marked when specified (1.7.7)		N/A		
3.3.5	Revise first column of Table 3E to "Smaller of the RATED CURRENT of the equipment or the PROTECTIVE CURRENT RATING of the circuit under consideration"	Class III equipment	N/A		
3.4.2	Motor control devices are provided for cord-connected equipment with a motor if the equipment is rated more than 12 A,	Equipment is not such a device.	N/A		
	- or if the motor has a nominal voltage rating greater than 120 V		N/A		
	- or is rated more than 1/3 hp (locked rotor current over 43 A)		N/A		
3.4.8	Vertically-mounted disconnect switches and circuit breakers have the "on" position indicated by the handle in the up position	No such devices incorporated.	N/A		
3.4.11	For computer room applications, equipment with battery systems capable of supplying 750 VA for five minutes have a battery disconnect means that may be connected to the computer room remote power-off circuit	Not such an application.	N/A		
4.3.12	The maximum quantity of flammable liquid stored in equipment complies with NFPA 30	No liquids.	N/A		
4.3.13.5.1	Equipment with lasers meets the U.S. Code of Federal Regulations 21 CFR 1040 (and the Canadian Radiation Emitting Devices Act, REDR C1370).	No lasers.	N/A		

	IEC60950_1F - ATTACHM	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
4.7	For computer room applications, automated information storage systems with combustible media greater than 0.76 m³ (27 cu ft) have a provision for connection of either automatic sprinklers or a gaseous agent extinguishing system with an extended discharge	Not such an application.	N/A
4.7.3.1	For computer room applications, enclosures with combustible material measuring greater than 0.9m ² (10 sq ft) or a single dimension greater than 1.8 m (6 ft) have a flame spread rating of 50 or less	Not such an application.	N/A
	For other applications, enclosures with the same dimensions require a flame spread rating of 200 or less		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		N/A
Annex H	Equipment that produces ionizing radiation complies with U.S. Code of Federal Regulations, 21 CFR 1020 (and the Canadian Radiation Emitting Devices Act, REDR C1370)	Equipment is not such a device.	N/A
	Other National Differences		
1.5.1	Some components and materials associated with the risk of fire, electric shock, or personal injury 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 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 cut-offs, thermostats, (multi-layer) transformer winding wire, surge protective devices, tubing, vehicle battery adapters, wire connectors, and wire and cables	Complied. See table 1.5.1	P
1.6.1.2	A circuit for connection to the DC Mains Supply is classified as a SELV Circuit, TNV-2 Circuit or Hazardous Voltage Circuit depending on the maximum operating voltage of the supply	No connection to the DC Mains Supply.	N/A

01	IEC60950_1F - ATTACHM		
Clause	Requirement + Test	Result - Remark	Verdict
	This maximum operating voltage includes consideration of the battery charging "float voltage" associated with the intended supply system, regardless of the marked power rating of the equipment		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 Vd.c., the maximum acceptable current through a 2000 ohm resistor (or greater) connected across the voltage source with other loads disconnected is 7.1 mA peak or 30 mA d.c. under normal operating conditions	No TNV circuits.	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 circuits.	N/A
2.6.2	Equipment with functional earthing marked with the functional earthing symbol (IEC 60417-6092)		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	Class III equipment	N/A
4.2.8.1	Enclosures around CRTs with a face diameter of 160 mm or more reduce the risk of injury due to the implosion of the CRT	No CRTs.	N/A
4.3.2	Equipment with handles complies with special loading tests	No handles.	N/A
4.3.8	Battery packs for both portable and stationary applications comply with special component requirements		N/A
5.1.8.3	Equipment intended to receive telecommunication ringing signals comply with a special touch current measurement tests	No TNV.	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 overloaded		N/A
	During abnormal operating testing, if a circuit is interrupted by the opening of a component, the test is repeated twice (three tests total) using new components as necessary		N/A
6.4	Equipment intended for connection to telecommunication network outside plant cable is protected against overvoltage from power line crosses in accordance with 6.4 and Annex NAC	No TNV.	N/A
Annex EE	Articulated accessibility probe (Fig EE.3) is used for assessing accessibility to document/media shredders instead of the Figure 2A test finger	No document (paper) shredder.	N/A

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
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 TNV.	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 comply with special acoustic pressure requirements	No TNV.	N/A	

		IEC60950_1F - ATTACHM	ENT	
Clause	Requirement + Test		Result - Remark	Verdict

(Deviations	from IEC 60950-1:2005+A1:2009)		
	tional conditions, National deviation and other informati <u>unique deviations</u> in J60950-1(H27) (=JIS C 6950-1:20 ²		nce No. 85.
1.2.4.1	Replace the existing NOTE as NOTE 1, and add NOTE 2 as following: NOTE 2: Even if the equipment is designed as CLASS I EQUIPMENT, if a 2-pin plug adaptor with a protective earthing lead wire (adaptor which converts a plug for CLASS I EQUIPMENT to a 2-pin plug with no earing contact) or a cord set having a 2-pin plug with a protective earthing lead wire is packed as accessory together with the equipment or if use of those is recommended to the users, the equipment is considered as CLASS OI EQUIPMENT.	Class III equipment	N/A
1.2.4.3A	Add 1.2.4.3A as following: 1.2.4.3A CLASS 0I EQUIPMENT Equipment having a mains plug without earthing contact, which protection against electric shock is achieved by: - using BASIC INSULATION; and - for the measures to connect conductive part(s) regarded as part at HAZARDIUS VOLTAGE in the event of fault of BASIC INSULATION to PROTECTIVE EARTHING CONDUCTOR, equipping any one of the following: a) mains plug with a protective earthing lead wire, this includeds the following cases: - where a 2-pin plug adaptor with a protective earthing lead wire is packed as accessory together with the equipment; or - where use of it is recommended. b) independent protective earthing terminal (see 2.6.5.8A) if the equipment uses a power supply cord of two conductors (exclude earthing conductor) NOTE - CLASS 0I EQUIPMENT may have a part constructed with DOUBLE INSUILATION or	Class III equipment	N/A

Page 37 of 58

	r age or or or		17000000
	IEC60950_1F - ATTACHM	1ENT	
Clause	Requirement + Test	Result - Remark	Verdict
1.3.2	Add the following NOTEs after first paragraph: NOTE 1 TRANSPORTABLE or similar equipment that are relocated frequently for intended usage it is recommended not to design as CLASS I or CLASS 0I EQUIPMENT unless it is intended to be installed by a SERVICE PERSON or installation personnel.	Class III equipment	N/A
	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 a SERVICE PERSON or installation personnel.		
1.5.1	Replace the first paragraph with the following: Where safety is involved, components shall comply either with the requirements of this standard, with the safety aspects of the relevant JIS component standards, or IEC component standards in case there is no applicable JIS component standard available. However, a component that falls within the scope of METI Ministerial ordinance No. 85 is properly used in accordance with its marked ratings, requirements of 1.5.4, 2.8.7 and 3.2.5 apply, and in addition, for connector of power cord set which is capable of insertion to one of appliance inlets specified in either IEC 60320-1 or JIS C 8283-1, the connector shall comply with the dimensions of the appropriate connector specified in IEC 60320-1 or JIS C 8283-1.	Replaced.	P
	Replace NOTE 1 with the following: NOTE 1 A JIS or an IEC component standard is considered relevant only if the component in question clearly falls within its scope.		

	IEC60950_1F - ATTACHM	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
1.5.2	Replace first sentence in the first dashed paragraph with the following: - a component that has been demonstrated to comply with a JIS component standard harmonized with the relevant IEC component standard, or where such JIS component standard is not available, a component that has been demonstrated to comply with the relevant IEC component standard shall be checked for correct application and use in accordance with its rating. Replace existing NOTE to NOTE 1 without modification of the sentence in the second dashed paragraph.	Replaced.	P
	Replace "where no relevant IEC component standard exists" to "where neither the relevant IEC component standard nor JIS standard corresponding to the relevant IEC component standard exists" in the third dashed paragraph.		
	Add NOTE 2 as follows: NOTE 2 If an appliance inlet with a rated current of 10A, which is of STANDARD SHEET C14 specified in JIS C 8283-1, is used for equipment with a rated voltage of 125V or less; and with a rated current of exceeding 10A, refer to 1.7.5A.		
1.5.9.1	General Replace the following at first dash of NOTE 2: JIS C5381-21 [Part 21 of Low pressure surge protection device : Performance requirement and test method of surge protection device (SPD) which connected with communication channel and signal]	No gas discharge tube (GDT).	N/A
1.5.9.4	Add the following at last paragraph: It is permitted to use a gas discharge tube (GDT) in series with a VDR that bridges BASIC INSULATION in accordance with the conditions in this subclause if the GDT complies with the requirements for FUNCTIONAL INSULATION.	No gas discharge tube (GDT).	N/A
1.7.1	Replace the existing dashed items for manufacturer's name etc. and for model identification etc. with the following respectively: - manufacturer's (or responsible business operator's) name or trade-mark or identification mark; - manufacturer's (or responsible business operator's) model identification or type reference; In the last paragraph, replace "ISO 7000 or IEC 60417" with "JIS S 0101, ISO 7000 or IEC 60417".	Replaced.	P

	IEC60950_1F - ATTACHN	/IEN I	
Clause	Requirement + Test	Result - Remark	Verdict
1.7.2.1	Add the following: Instructions and the marking(s) on equipment, which related to safety, shall be made in Japanese.		N/A
1.7.5	Replace IEC 60083 with JIS C 8303 in the second paragraph.	Replaced.	N/A
1.7.5A	Add the following new clause after 1.7.5 1.7.5.A Power supply cord set If an appliance inlet with a rated current of 10 A, which is of STANDARD SHEET C14 specified in JIS C 8283-1, is used for equipment with a rated voltage of 125 V or less and with a rated current of exceeding 10 A, the operating instructions shall provide the following or equivalent instruction: "この機器に同こん (相) した指定の電源コードセットだけを使用する。" For equipment with an appliance inlet, if a power supply cord set is not provided by packing together with the equipment, the operating instructions shall provide information on the applicable power supply cord set. NOTE For the combination of CLASS 0I EQUIPMENT equipped with an appliance inlet with earthing contact and a power supply cord set of two conductors (exclude earthing conductor), to pack the power supply cord set together with the equipment and to provide a sentence calling attention of the following purport in the operating instructions are recommended, because such power supply cord set is a special kind of cord set: - this is usable only for this equipment; and - to use this for other equipment is not allowed.	Added.	N/A
1.7.14A	Add the following new clause after 1.7.14 1.7.14A Marking for protective earthing connection for CLASS 0I EQUIPMENT CLASS 0I EQUIPMENT shall be provided with the following or equivalent instruction: - on the mains-plug or the easily visible section of equipment, the following instruction: - in the easily visible section of equipment or in the operating instructions, the following instruction: - 複数接続は必ず、電源プラグを電源につなく前に行って下さい。 - 表生接続を外す場合は、必ず電源プラグを電源から切り能してから行って下さい。	Class III equipment.	N/A

17059693 0	Report No.:	Page 40 of 58	
	ENT	IEC60950_1F - ATTACHM	
Verdic	Result - Remark	Requirement + Test	Clause
N/A	Class III equipment.	Add the following new clause after 1.7.14 1.7.14B Protective earth wire used for CLASS 0I EQUIPMENT	1.7.14B
		For CLASS 0I EQUIPMENT equipped with a separate protective earthing terminal as main protective earthing terminal, if a protective earth wire is not provided by packing together with the equipment, the operating instructions shall provide information on the applicable protective earth wire. (See 2.6.3.2.)	
N/A	Class III equipment.	In b) of the fifth paragraph, replace "IEC 60083, IEC 60309, IEC 60320, IEC 60906-1 or IEC 60906-2" with "JIS C 8303, (the Ministerial Ordinance establishing Technical Requirements for Electrical Appliances and Materials, MEIT Ordinance No. 85, Clause 1 (METI Ordinance No. 34 of 2013), JIS C 8285, the IEC 60309 series of standards, the JIS C 8283 series of standards, the IEC 60320 series of standards".	2.1.1.1
N/A	Added.	Add the following: If the conductor of protective earthing lead wire or the protective earth wire of CLASS 0I EQUIPMENT is of single-core, it shall be one of the following: - annealed copper wire of 1,6 mm in diameter, or metallic wire having the same or more strength and diameter and being not easily corrosive; or - single-core cord or single-core cabtyre cable (sheathed flexible cable), which have a cross-sectional area of at least 1,25 mm².	2.6.3.2
N/A	Added.	Add the following: However, this requirement does not apply to the	2.6.3.5

Added.

Replaced.

Replaced.

N/A

N/A

N/A

inside conductor of power supply cord (or power supply cord set), which has been molded together

with a plug and a connector and has been

For CLASS 0I EQUIPMENT equipped with a separate protective earthing terminal, the protective earthing terminal may be used as the

"Protective earthing conductors" with "Protective earthing conductors of CLASS I EQUIPMENT".

main protective earthing terminal.

Replace 1st sentence with the following.

Replace "protective earthing terminals" with

"protective earthing and protective bonding

sheathed.

terminals".

Add the following:

2.6.4.2

2.6.5.4

2.6.5.6

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	IEC60950_1F - ATTACHM	IENT	
Clause	Requirement + Test	Result - Remark	Verdict
2.6.5.8A	Add the following new clause. after 2.6.5.8A 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.	Added.	N/A
2.9.3 Table 2H	Deleted the following mark of Figure 2H: B13 e) and S2 d)	Deleted	N/A
2.9.3 Figure 2H	Addition of marking for table 2H: B8, B9, B12, B13, S1	Added	N/A
2.10.3.1	In the third paragraph, replace IEC 60664-1 with JIS C 60664-1. Replace the 8th paragraph with the following: The above minimum CLEARANCES for connectors do not apply to: - connectors that comply with JIS C 8285, the IEC 60309 series of standards, the JIS C 8283 series of standards, the IEC 60320 series of standards or JIS C 8303; and - connectors that comply with the Ministerial Ordinance establishing Technical Requirements for Electrical Appliances and Materials MEIT Ordinance No. 85, Clause 1 (METI Ordinance No. 34 of 2013), and comply with the dimensions specified in the JIS C 8283 series of standards, JIS C 8303 or IEC 60309-2; see also 1.5.2.	Replaced.	N/A
2.10.3.2	In the bottom column of Table 2J, add the following: In Japan, the MAINS TRANSIENT VOLTAGE value against the nominal AC MAINS SUPPLY voltage of 100 V is decided by applying the columns for the AC MAINS SUPPLY voltage of 150 V.	Added.	N/A
2.10.3.3	In Table 2L, add the following into the column specifying the additional CLEARANCES and at the end: For intermediate voltage values between the PEAK WORKING VOLTAGE values given in this table, linear interpolation is permitted between the nearest two points, the calculated additional minimum CLEARANCE being rounded up to the next higher 0,1 mm increment.	Added.	N/A

		IEC60950_1F - ATTACHM	ENT	
Clause	Requirement + Test		Result - Remark	Verdict

	<u>'</u>		
2.10.4.3	Replace the 6th paragraph with the following: The above minimum CLEEPAGE DISTANCES for connectors do not apply to:	Replaced.	N/A
	- connectors that comply with JIS C 8285, the IEC 60309 series of standards, the JIS C 8283 series of standards, the IEC 60320 series of standards or JIS C 8303; and		
	- connectors that comply with the Ministerial Ordinance establishing Technical Requirements for Electrical Appliances and Materials MEIT Ordinance No. 85, Clause 1 (METI Ordinance No. 34 of 2013), and comply with the dimensions specified in the JIS C 8283 series of standards, JIS C8303 or IEC 60309-2;		
2.40.0	see also 1.5.2.	Depleased	NI/A
2.10.9	Replace clause which as test method of T^1 from 1.4.5 to 1.4.12.	Replaced.	N/A
3.2.1.1	Add the following: When equipment with an appliance inlet connects to AC mains supply, see clause 1.7.5A for the relevant mark of power supply cord set.	Added.	N/A
3.2.3	Add the following after Table 3A: Table 3A applies when cables complying JIS C 3662 or JIS C 3663 are used. In case of other cables, cable entries shall be so designed that a conduit suitable for the cable used can be fitted.	Added.	N/A
3.2.4	Add the following: The equipment shall have a structure of which the soldered sections of the terminals of appliance inlet are not subjected to mechanical stress during the insertion or removal of the connector, except the case fixing the appliance inlet itself mechanically but not only by soldering.	Added.	N/A
3.2.5.1	At the end of the first dashed item, replace "; and" with ", or be a sheathed cord complying with Appendix 1 specified in the Interpretation for the Ministerial Ordinance establishing Technical Requirements for Electrical Appliances and Materials MEIT Ordinance No. 85, Clause 1 (METI Ordinance No. 34 of 2013); and".	Added.	N/A
	In the second dashed item, replace "insulated:" with "insulated, be a cord of the following or be a sheathed cord complying with Appendix 1 specified in the Interpretation for the Ministerial Ordinance establishing Technical Requirements for Electrical Appliances and Materials MEIT Ordinance No. 85, Clause 1 (METI Ordinance No. 34 of 2013), :"	Replaced.	N/A

	IEC60950_1F - ATTACHM	 IFNT	
Clause	Requirement + Test	Result - Remark	Verdict
	In the third dashed item, add the following: However, the coating of the protective earth conductor inside covered with sheath (cord set) power cord integrally formed with the connector and the plug need not be a combination of green and yellow. In addition, the power cord of CLASS OI EQUIPMENT having a protective earth conductor separately, it is not necessary to provide a protective earth conductor.	Added.	N/A
	Replace the existing fourth dashed item with the following: - if those complying with JIS C 3662-5 or JIS C 3663-4, have conductors with cross-sectional areas not less than those specified in Table 3B, and if others, comply with the relevant wiring rules. In Table 3B, replace "IEC 60320" with "the JIS C8283 series of standards or the IEC 60320 series	Replaced.	N/A
3.3.4	of standards". Add the following note to Table 3D: For cables other than those complying with JIS C 3662 or JIS C 3663, terminals shall be suitable for the size of the intended cables.	Added.	N/A
3.3.7	Add the following after the first sentence: This requirement is not applicable to the external earting terminal of CLASS 0I EQUIPMENT.	Added.	N/A
4.3.4	Add the following after the first sentence: This requirement also applies to those connections in CLASS 0I EQUIPMENT, where CLEARANCE or CREEPAGE DISTANCES of BASIC INSULATION would be reduced to less than the values specified in 2.10.	Added.	N/A
4.3.5	In the paragraph, replace "IEC 60083 or IEC 60320" with "the JIS C 8283 series of standards, JIS C 8303 or JIS C 8358".	Replaced.	N/A
4.5.3	In the item b in Table 4B, add the following: NOTE If no data of material is available, Appendix 4, 1(1), 1, 3 specified in the Interpretation for "the Ministerial Ordinance establishing Technical Requirements for Electrical Appliances and Materials MEIT Ordinance No. 85, Clause 1 (METI Ordinance No. 34 of 2013)" is applicable.	Replaced.	N/A
	In the item c in Table 4B, replace IEC 60085 with JIS C 4003.		
5.1.3	Add a note after the first paragraph as follows: NOTE In Japan, three-phase power distribution systems of delta connection are typical, therefore, in such case, test is conducted using the test circuit from IEC 60990, figure 13.	Added.	N/A
5.1.6	Replace Table 5A as follows	Replaced.	N/A

Page 44 of 58 Report No.: 17059693 001

		IEC60950_1F - ATTACHM	ENT	
Clause	Requirement + Test		Result - Remark	Verdict

	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	Class I equipment main protective earthing terminal	0,75	-
		Class 0I equipment main protective earthing terminal	0,5	-
	MOVABLE (other than HAND-HELD, but	Class I equipment main protective earthing terminal	3,5	-
	including TRANSPORTABLE EQUIPMENT)	Class 0I equipment main protective earthing terminal	1,0	-
	STATIONARY, PLUGGABLE TYPE A	Class I equipment main protective earthing terminal	3,5	-
		Class 0I equipment main protective earthing terminal	1,0	-
	All other STATIONARY EQUIPMENT - not subject to the conditions of 5.1.7	Class I equipment main protective earthing terminal	3,5 _	– 5 % of input current
	- subject to the conditions of 5.1.7	Class 0I equipment main protective earthing terminal	1,0 _	
	table by 1,414.	CURRENT are measured, the maximum valu		
)	Add following in the	end of NOTE 1:	No TNV.	N/A
	For suitable addition	al measures, see Annex JB.		
.1.2.1	Add the following:		No TNV.	N/A
		le, the highest nominal voltage nd 120 V in North America.		
Annex G.6	is 230 V in Europe a		Replaced.	N/A
Annex G.6	is 230 V in Europe a Replace the existing	nd 120 V in North America. 8 th paragraph with the CLEARANCES for	Replaced.	N/A
nnex G.6	is 230 V in Europe a Replace the existing following: The above minimum connectors do not ap - connectors that of IEC 60309 series	nd 120 V in North America. 8 th paragraph with the CLEARANCES for oply to: comply with JIS C 8285, the s of standards, the JIS C 8283 ds, the IEC 60320 series of	Replaced.	N/A

	IEC60950_1F - ATTACHI	MENT			
Clause	Requirement + Test	Result - Remark	Verdict		
Annex M	In M.1, replace the existing paragraph with the following: One of the two methods specified in this annex shall be applied. NOTE Method A specified in the annex is typical	No telephone ringing signals.	N/A		
	of analogue telephone network in Europe and Method B of those in North America.				
Annex P	Replace the existing Annex P with the following:	Replaced.	Р		
	Annex P (normative Normative refer	rences			
	The following reference documents are indispensable for the application of this standard. If the date of the reference document is given, only that edition applies, and any newer edition and subsequent amendments do not apply. If the date of the reference document is not given, the latest edition including the amendments applies. Further information on the reference documents, including how to obtain copies, can be found on the following				
	internet sites: http://www.jisc.go.jp/ http://www.iec.ch http://www.iso.org http://www.itu.int				
	NOTE Corresponding IS: ISO 261 , ISO general purpose metric screw threads—General plan (IDT) JIS B 0205-3 , ISO general purpose metric screw threads - Part3: Selected sizes for screws, bolts and nuts NOTE Corresponding IS: ISO 262 , ISO general purpose metric screw threads - Selected sizes for screws, bolts and nuts (IDT) JIS C 0448 , Coding of indicating devices and actuators by colours and supplementary means NOTE Corresponding IS: IEC 60073 , Basic and safety principles for man-machine interface, marking and identification - Coding principles for indicator devices and actuators (IDT) JIS C 2134 , Method for the determination of the proof and the comparative tracking indices of solid insulating materials NOTE Corresponding IS: IEC 60112 , Method for the determination of the proof and the comparative tracking indices of insulating materials (IDT) JIS C 3215 (all parts), Specifications for particular types of winding wires				
	NOTE Corresponding IS: IEC 60317 (all parts), Specifications for particular types of winding wires (IDT) JIS C 3661-1:1998, Electrical test methods for electric cables - Part 1: Electrical tests for cables, cords and wires for voltages up to and including 450/750V NOTE Corresponding IS: IEC 60885-1:1987, Electrical test methods for electric cables. Part 1: Electrical tests for cables, cords and wires for voltages up to and including 450/750 V (IDT)				
	JIS C 3662 (all parts), Polyvinyl chloride insulated cables of rated voltages up to and including 450/750V - Part 1 : General requirements NOTE Corresponding IS: IEC 60227 (all parts), Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V (MOD)				
	JIS C 3663 (all parts), Rubber insulated cables - Rated voltages up to and including 450/750 V NOTE Corresponding IS: IEC 60245 (all parts), Rubber insulated cables - Rated voltages up to and including 450/750 V (MOD)				
	JIS C 4003, Electrical insulation-Thermal evaluation and designation NOTE Corresponding IS: IEC 60085:2004, Electrical insulation - Thermal classification (MOD) JIS C 4526-1:2005, Switches for appliances - Part 1: General requirements				
	NOTE Corresponding IS: IEC 61058-1 :2000, Switches for appliances - Part 1: General requirements (MOD) JIS C 5101-14 :2009, Fixed capacitors for use in electronic equipment - Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains NOTE Corresponding IS: IEC 60384-14 :2005, Fixed capacitors for use in electronic equipment - Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains (IDT)				
	JIS C 6065:2007 and Amendment 1:2009, Audio, video and similar electronic apparatus - Safety requirements NOTE Corresponding IS: IEC 60065:2001, Audio, video and similar electronic apparatus - Safety requirements and Amendment 1:2005 (MOD)				
	NOTE Corresponding IS: IEC 60825-1, Safety of laser products (IDT)		uirements		
	NOTE Corresponding IS: IEC 60825-2, Safety of laser products (OFCS) (IDT)	•	ition system		

	IEC60950_1F - ATTACHM	IENT	1		
Clause	Requirement + Test	Result - Remark	Verdict		
	JIS C 6804, Safety of laser products-Safety of free space optical communication systems used for transmission of information NOTE Corresponding IS: IEC 60825-12, Safety of laser products - Part 12: Safety of free space optical communication systems used for transmission of information (IDT) JIS C 8201-1:2007, Low-voltage switchgear and controlgear-Part 1: General rules				
	NOTE Corresponding IS: IEC 60947-1 :2004, Low-voltage switchgear and controlgear - Part 1: General rules (MOD) JIS C 8283 (all parts), Appliance couplers for household and similar general purposes NOTE Corresponding IS: IEC 60320 (all parts), Appliances couplers for household and similar general purposes				
	(MOD) JIS C 8285, Plugs, socket-outlets and couplers for industrial purp NOTE Corresponding IS: IEC 60309-1, Plugs, socket-outlets and requirements (MOD)		: General		
	JIS C 8303, Plugs and receptacles for domestic and similar gene				
	JIS C 8358:1994, Appliance couplers for domestic and similar us JIS C 9730-1:2010, Automatic electrical controls for household a NOTE Corresponding IS: IEC 60730-1:1999, Automatic electrica General requirements and Amendment 1:2003 (MOD)	nd similar use - Part 1:General requirement of the similar use of the			
	JIS C 60068-2-78, Environmental testing - Test Cab:Damp heat, NOTE Corresponding IS: IEC 60068-2-78, Environmental testing state (IDT)	g - Part 2-78: Tests - Test Cab: Damp he	•		
	JIS C 60364-1:2006, Low-voltage electrical installations - Part 1: characteristics, definitions NOTE Corresponding IS: IEC 60364-1:2001, Electrical installation assessment of general characteristics, definitions (IDT)	, , ,			
	JIS C 60664-1:2009, Insulation coordination for equipment within 1:Principles, requirements and tests NOTE Corresponding IS: IEC 60664-1:1992, Insulation coordinates are principles, requirements and tests, Amendment 1:2000 and A	ation for equipment within low-voltage sys	stems - Part		
	JIS C 60695-2-11, Fire hazard testing - Glow-wire flammability to NOTE Corresponding IS: IEC 60695-2-11, Fire hazard testing - Glow-wire flammability test method for end-products (IDT)	est method for end-products	nethods -		
	JIS C 60695-2-20, Fire hazard testing—Part 2 : Glowing /Hot wire ignitability test on materials NOTE Corresponding IS: IEC/TS 60695-2-20, Fire hazard testin	g - Part 2-20: Glowing/hot wire based tes			
	Hot-wire coil ignitability - Apparatus test method and guidance (II JIS C 60695-10-2, Fire hazard testing-Part 10-2: Abnormal heat NOTE Corresponding IS: IEC 60695-10-2, Fire hazard testing -	-Ball pressure test Part 10-2: Abnormal heat - Ball pressure	, ,		
	JIS C 60695-11-5:2007, Fire hazard testing-Part 11-5:Test flame confirmatory test arrangement and guidance NOTE Corresponding IS: IEC 60695-11-5:2004, Fire hazard test method - Apparatus, confirmatory test arrangement and guidance	ting - Part 11-5: Test flames - Needle-fla			
	JIS C 60695-11-10, Fire hazard testing-Part 11-10:Test flames - NOTE Corresponding IS: IEC 60695-11-10, Fire hazard testing vertical flame test methods (IDT)	50 W horizontal and vertical flame test n			
	JIS C 60695-11-20, Fire hazard testing-Part 11-20: Test flames NOTE Corresponding IS: IEC 60695-11-20, Fire hazard testing (IDT)		test methods		
	JIS C 7550:2011, Safety for lighting of lamp and lamp system or JIS C 60695-10-3:2005, Fire resistance test – Electrical . Electron Deformation test of molded stress after released	onic – Part 10-3 : Thermal caused abnorn			
	NOTE Corresponding IS: IEC 60695-10-3:2002 , Fire hazard te relief distortion test (IDT) JIS K 7110 , Plastics - Determination of Izod impact strength	sting – Part 10-3 : Abnormal heat – Moul	d stress		
	NOTE Corresponding IS: ISO 180 , Plastics - Determination of IZ JIS K 7111 (all parts), Plastics-Determination of Charpy impact pNOTE Corresponding IS: ISO 179 (all parts), Plastics - Determination of Charpy impact places are considered in the content of t	properties - Part 1: Non-instrumented imp			
	JIS K 7127, Plastics - Determination of tensile properties—Part NOTE Corresponding IS: ISO 527-3, Plastics - Determination of and sheets (IDT)		ns for films		
	JIS K 7160, Plastics—Determination of tensile-impact strength NOTE Corresponding IS: ISO 8256, Plastics - Determination of	tensile-impact strength (IDT)			
	JIS K 7161, Plastics—Determination of tensile properties—Part NOTE Corresponding IS: ISO 527-1, Plastics - Determination of	• •	ciples (IDT)		
	JIS K 7162, Plastics - Determination of tensile properties - Part 2 NOTE Corresponding IS: ISO 527-2, Plastics - Determination of moulding and extrusion plastics (IDT)	2 : Test conditions for moulding and extru	ision plastics		
	JIS K 7164, Plastics - Determination of tensile properties - Test	conditions for isotropic and orthotropic fib	ore-		

	IEC60950_1F -	ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict		
	reinforced plastic composites NOTE Corresponding IS: ISO 527-4 , Plastics - De isotropic and orthotropic fibre-reinforced plastic co JIS K 7165 , Plastics-Determination of tensile prop	mposites (MOD)			
	plastic composites NOTE Corresponding IS: ISO 527-5 , Plastics - Determination of tensile properties - Part 5: Test conditions for unidirectional fibre-reinforced plastic composites (MOD)				
	JIS K 7171, Plastics - Determination of flexural pro NOTE Corresponding IS: ISO 178, Plastics - Dete	ermination of flexural properties (IDT)			
	JIS K 7241, Cellular plastics-Determination of horismall flame NOTE Corresponding IS: ISO 9772, Cellular plastics		•		
	specimens subjected to a small flame (IDT) JIS K 7341, Plastics-Determination of burning ber	_			
	flame ignition source NOTE Corresponding IS: ISO 9773 , Plastics - De in contact with a small-flame ignition source (IDT)	·			
	JIS K 7350-1, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-1, Plastics - N quidance (IDT)		art 1: General		
	JIS K 7350-2, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-2, Plastics - Margo (MOD)		art 2: Xenon-arc		
	JIS K 7350-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Methods of exposure to la NOTE Corresponding IS: ISO 4892-4, Plastics - Metho	aboratory light sources - Part 4: Open-flame carbor Methods of exposure to laboratory light sources - P	n-arc lamps art 4: Open-		
	JIS S 0101:2000, Graphical warning symbols for o		mational test		
	TS C 60695-11-3, Fire hazard testing - Part 11-3: Test flames - 500 W flames - Apparatus and confirmational test methods NOTE Corresponding IS: IEC 60695-11-3, Fire hazard testing - Part 11-3: Test flames - 500 W flames - Apparatu and confirmational test methods (IDT)				
	TS C 60695-11-4, Fire hazard testing - Part 11-4: Test flames - 50 W flames - Apparatus and confirmational test methods				
	NOTE Corresponding IS: IEC 60695-11-4 , Fire had and confirmational test methods (IDT)	azard testing - Part 11-4: Test flames - 50 W flame	s - Apparatus		
	IEC 60216-4-1 , Electrical insulating materials - Th chamber ovens		ns - Single-		
	IEC 60309 (all parts), Plugs, socket-outlets and co	• •			
	IEC 60317-(all parts), Specifications for particular types of copper wire, class 240	,,	wrapped round		
	IEC 60320 (all parts), Appliance couplers for hous				
	IEC 60417-DB :2002, Graphical symbols for use of (For DB, see the online database of the IEC.)	n equipment			
	IEC 60747-5-5, Semiconductor devices - Discrete IEC/TR 60825-9, Safety of laser products - Part 9: optical radiation				
	IEC 60851-3:1996, Winding wires - Test methods IEC 60851-5:1996, Winding wires - Test methods				
	2:2004 IEC 60851-6:1996, Methods of test for winding wir	·			
	IEC 60947-1:2004, Low-voltage switchgear and co	ch current and protective conductor current			
	IEC 61051-2, Varistors for use in electronic equipr ISO 180, Plastics - Determination of Izod impact s		oression varistor		
	ISO 3864-2: Graphical symbols – Safety colours a ISO 4892-1, Plastics - Methods of exposure to lab	and safety signs – Part 2: principles for product safe	ety labels.		
	ISO 7000-DB:2004, Graphical symbols for use on (For DB, see the online database of the IEC.)				
	ISO 8256, Plastics - Determination of tensile-impa	<u> </u>	roltages and		
	overcurrents - Basic Recommendation	or to coordination adultines to exposed to overv	onages and		

	Page 48 of 58	Report N	lo.: 17059693 0
	IEC60950_1F - ATTACHM	IENT	
Clause	Requirement + Test	Result - Remark	Verdic
Annex U.2.4	Replace the existing NOTE as NOTE1, add NOTE 2 as follows: NOTE 2 by taking into account environmental impact, "(for example, 1.1.1-trichloroethance)" described in the corresponding IEC standard was deleted.	Replaced.	N/A
Annex V.1	Replace "In 3.1.2 of IEC 60364-1" with "312 of JIS C 60364-1".	Replaced.	N/A
Annex W.1	Replace second and third sentence in the first paragraph with the following: This distinction between earthed and unearthed (floating) circuit is not the same as between CLASS I EQUIMENT, CLASS 0I EQUIPMENT and CLASS II EQUIPMENT. Floating circuits can exist in CLASS I EQUIPMENT or CLASS 0I EQUIPMENT and earthed circuits in CLASS II EQUIPMENT.	Replaced.	N/A
Annex AA	Replace figure AA.3 which correct the position of insulating metal sheet.	Replaced.	N/A
Annex BB	(Reference) [Change point which from IEC 60950-1: 2001 (v1) to IEC 60950-1: 2005 (v2)] (Deleted text body)		_
Annex CC	Evaluation of integrated circuit (IC) current limiters		N/A
CC.2	Test program 1		N/A
	10 000 cycles of turning enable on and off with an iron-core inductor having (0.35± 0.1) mH inductance at 1 kHz and less than 1 Ω DC resistance value connected in the output circuit;		N/A
	10 000 cycles of turning enable on and off with the input connected to a capacitor rated 425 μ F \pm 10 μ F and shorting the output;		N/A
	10 000 cycles of turning the input pin on and off with an iron-core inductor having (0.35 \pm 0.1) mH inductance at 1 kHz and less than 1 Ω DC resistance value connected to the input supply and return while keeping enable active and shorting the output;		N/A
CC.3	Test program 2		N/A
	Note: It's advisable to use that in conformity with IEC 60127-2 for quick-fusing type fuse.		N/A
Annex EE	Household and home/office document/media shredders		N/A
	Note: Delete requirements of this Annex which corresponding IS and replace this Annex by Annex JA.		N/A
	Foreword of Annex JA (Requirements for shredder) was replaced by following: It shall conformity with requirements of this Annex for that add to body with Household and home/office document /media shredders		N/A

home/office document /media shredders.

Page 49 of 58 Report No.: 17059693 001

IEC60950_1F - ATTACHMENT				
Clause	Clause Requirement + Test Result - Remark Verdic			

Annex JA	Add a new annex JA with the following contents.	Not document shredding machine.	N/A
	Annex JA		
	(normative)		
	Requirements for document shredding machines (see 1.7, 2.8.3, 3.4 and 4.4)		
	Introduction		
	This annex specifies the safety requirements for document shredding machines, except those of STATIONARY EQUIPMENT used by connecting directly to 3-phase AC MAINS SUPPLY of a voltage not the than 200V.		
	Document shredding machines shall comply with the requirements of this annex in addition to other requirements specified in this standard, except those of STATIONARY EQUIPMENT used by connecting directly to three-phase AC MAINS SUPPLY of a voltage not less than 200V.		
JA.1	Markings and instructions		N/A
	In the easily visible part near to the slot for		
	documents, by a method of clearly legible and		
	permanent and by using easily understandable		
	terms, document shredding machines shall have		
	markings of the symbol \triangle specified in 6.2.1		
	(general cautions) of JIS S 0101:2000, Graphical		
	warning symbols for consumers, and also the		
	following precautions for use:		
	- that use by an infants/children may cause a hazard of injury etc.;		
	 that a hand can be drawn into the mechanical section for shredding when touching the document-slot; 		
	 that clothing can be drawn into the mechanical section for shredding when touching the document-slot; 		
	that hairs can be drawn into the mechanical section for shredding when touching the document-slot;		
	 in case of equipment incorporating a commutator motor, that equipment may catch fire or explode by spraying of flammable gas. 		
JA.2	Inadvertent reactivation		N/A
	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.		
	Compliance is checked by inspection and, where necessary, by a test with the test finger, Figure JA.1		

Page 50 of 58

	IEC60950_1F - ATTACHM	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
JA.3	Disconnect switch Document shredding machines shall incorporate		N/A
	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.		
	If two-position switch, the positions for "ON" and "OFF" shall be indicated in accordance with subclause 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.		
10.4	Compliance is checked by inspection.		N//A
JA.4	Any warning shall not be used instead of the structure for preventing access to hazardous moving parts.		N/A
	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.		

Page 51 of 58 Report No.: 17059693 001

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

Dimensions in millimeters

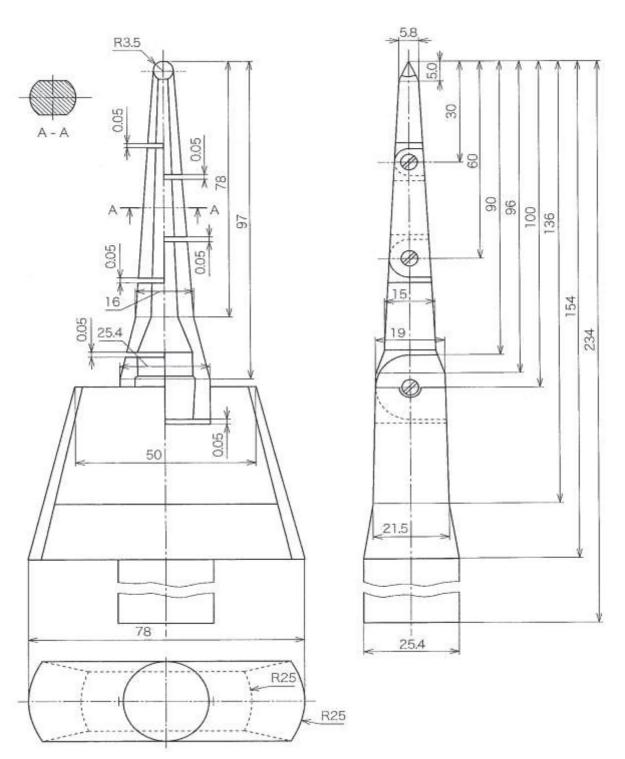
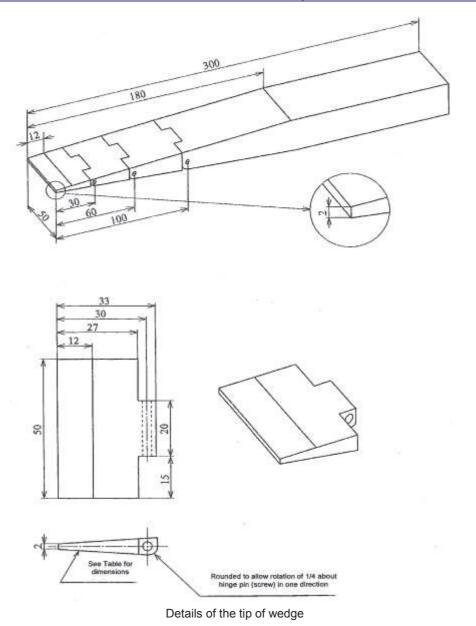


Figure JA.1 Test finger

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict



Dimensions in millimeters

Distance from the tip	Thickness of probe
0	2
12	4
180	24

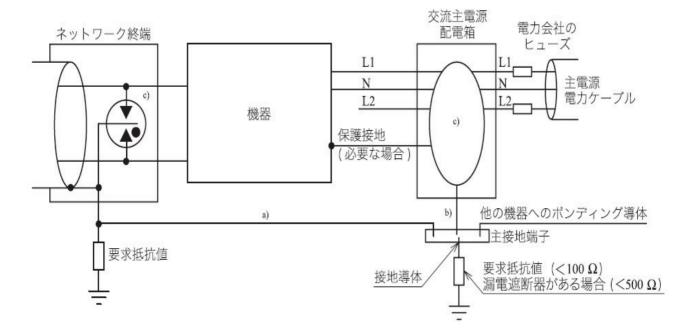
The thickness of the probe varies linearly, except changing the slope at the respective points shown in the table. The allowable dimensional tolerance of the probe shall be \pm 0,127 mm.

Figure JA.2 Wedge-probe.

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

Annex JB	Add Annex JB as follows:	Added.	N/A
	Annex JB (informative) Current conditions Installation environment on overvoltages and overcurrents, and the measures (see NOTE 1 in Clause 6) Introduction This standard is based on "ITU-T Recommendation K.11:1993" to stipulate requirement for equipment on a premise to install in the environment where appropriate measures were taken for so that overvoltage more than peak 1.5kV does not hang to the apparatus. But in Japan due to environment is difficult to integrate with "ITU-T Recommendation K.11:1993", in here explain for desirable environment and show actions to be taken how to make a desirable setting environment.		
JB.1	A desirable setting environment When lead electric wires in building for any kind service of metal wire, for overvoltage restraint and overcurrent restraint, it is desirable that be close to each other including grounding conductor. It is important to make it close each other especially the lead in point of power line, communication line and grounding conductor. In that case, attention is necessary for electromagnetic induction where occurred between a communication line and the power line which are not covered. It is desirable that set up main grounding terminal which close to lead in point of power line and communication line in building as much as possible. Due to minimize the surge current in building for all shielding conductor of cable which lead in building, it shall connected directly with main grounding terminal in lead in point via surge protection device (SPD) e.g. arrester and so on. It shall be considered corrosion measures in joint if necessary. It is desirable that SPD which set on communication line is close to lead in point toward the building as much as possible. Furthermore set the SPD near the main power line, and it may make the distance from SPD to a grounding conductor as short as possible. It is effective if use a short grounding conductor with low impedance for that decrease surge voltage between electric power system protection conductor and the communication line.		N/A

	IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		
	Desirable setting environment for TT electric power system is as figure JB.1. Established SPD as that excessive potential difference does not occur between communication side and the electricity side, and recommend that ground wire of both are connected with a short conductor. Concerning the detail for recommend setting environment, see ITU-T Recommendation K.11:1993, K.21:1996, K.27:1996, K.31:1993 and K.66:2004.		N/A		



Note:

- a) All bonding line to a main grounding terminal makes it as short as possible (Less than 1.5m in the place that danger of direct lightning is high).
- b) The connected line which from SPD to main grounding terminal is as short as possible (less 1.5m).
- c) Setting for SPD (omitted the detail). All SPD connected line is short as possible (less 0.5m).

Figure JB.1 – Sample of desirable setting for TT electric power system of single phase three-wire type + neutral line

(From ITU-T Recommendation K.66:2004)

	IEC60950_1F - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict	
JB.2	Situation and countermeasure of setting environment for overvoltage and overcurrent		N/A	
	In Japan, TT type often adopted for electric power system. Typical example is as figure JB.2. For this TT type, on condition that it shall be an electric power system which does not wired with grounding conductor except neutral line, and it shall be connected with grounding terminal which have an electrically independent different from this grounding terminal of neutral line by user for equipment which need to connect with ground.			

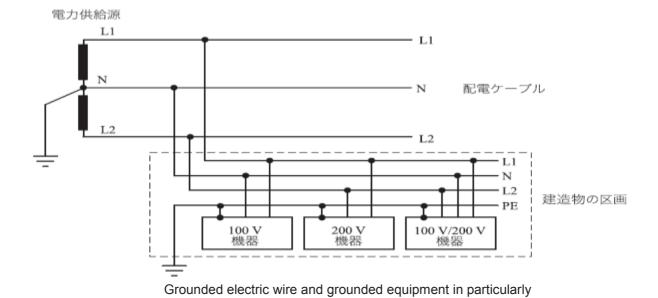


Figure JB.2 – Example of three-wire type TT electric power system

	IEC60950_1F - ATTACHM	IENT	
Clause	Requirement + Test	Result - Remark	Verdict
	But as thing are stand, there are a lot of cases that an outlet is not prepared with the grounding terminal which is appropriate in the setting place of the equipment. On the other hand, grounding resistance value of SPD where set at lead-in point of communication line sometime is not enough low, it make that dielectric breakdown was occurred due to the voltage that a thunder surge current evoked for grounding resistance which flow into the communication line and drift to the ground through SPD. The same result is expected that grounding resistance value is not enough low too if set SPD on electric power system. This status is as figure JB.3. As figure JB.1, it can decrease effectively by connecting both with the conductor of the low resistance value when excessive potential difference occurred in internal equipment.		N/A

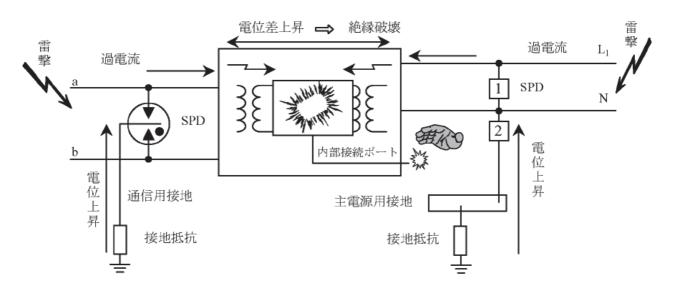


Figure JB.3 - Insufficient grounding and setting environment of bonding (From ITU-T Recommendation K.66:2004)

environment which appropriate measures were given based on ITU-T RecommendationK.11:1993 when perform design and sale network connected equipment.		given based on ITU-T RecommendationK.11:1993 when perform design and sale network connected		N/A	
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IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

Appendix	J3000(H25)			
	Interpretation for METI Ordinance of Technical Requirements (H26.04.14), Appendix 12			
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.	Class III product. No such appliance inlet.	N/A	
2	Requirement for equipment			
2.1	Heater Appliances When diode is used in parallel for adjustment of power, the equipment shall remain safe for operation under open condition of one diode.	Not electric stove.	N/A	
	The current rating of one diode shall be more than main current. The diodes connected in parallel are same type.		N/A	
	The heating test specified by clause 11 of JIS C 9335-2-30(2006) under open condition of one diode shall comply with the requirements.		N/A	
2.2	Electric heater with glowing heating elements	Not electric stove.	N/A	
	Surface treatment by paint or adhesive on protective frame or protective mesh shall not be used.		N/A	
	Caution marking like below shall be on - easily visible place of the equipment or - Instruction manual 「注意 当該機器から、使用初期段階で揮発性有機化合物及びカルボニル化合物が最も放散するおそれがあるため、その際には十分換気を行うこと。」		N/A	
3	Components used in equipment	No such equipment /components.	N/A	

Page 58 of 58 Report No.: 17059693 001

IEC60950_1F - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

3.1	Motor capacitors used in ventilating fan, electric fan, air conditioner, electric washing machine, refrigerator or electric freezer shall be comply with	N/A
	- capacitors with protective elements or protective mechanism complying with JIS C 4908(2007)	
	- P2 capacitor complying with IEC 60252-1(2001)	
	Capacitor complying with below is acceptable	
	Enclosed by metal or ceramic	N/A
	No non-metallic materials within 50 mm from capacitor surface	N/A
	Non-metallic material within 50 mm from capacitor surface comply with needle frame test of JIS C 9335-1(2003), Annex E	N/A
	Non-metallic material within 50 mm from capacitor surface comply with V-1 test of JIS C 60965-11-10(2006).	N/A
3.2	Plug directly inserted to outlet used refrigerator or electric freezer.	N/A
	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. 	

National Differences			
Clause	Requirement - Test	Result - Remark	Verdict

APPENDIX ZZ VARIATIONS TO IEC 60950-1, ED. 2.2 (2013) FOR AUSTRALIA AND NEW ZEALAND

Differences according to AS/NZS 60950.1:2015

ZZ1 INTRODUCTION

This Appendix sets out variations and additional requirements to cover issues which have not been addressed by the International Standard. These variations indicate national variations for purposes of the IECEE CB System and will be published in the IECEE CB Bulletin.

	· · · · · · · · · · · · · · · · · · ·		
ZZ2 VARIA			
The followin	g variations apply to the source text.		
1.2	After definition 'PERSON, SERVICE', insert the following new definition: POTENTIAL IGNITION SOURCE 1.2.12.201	Added.	Р
1.2.12.201	After Clause 1.2.12.15, insert the following new clause: 1.2.12.201 POTENTIAL IGNITION SOURCE	Added.	Р
	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.		
	Such a faulty contact or interruption in an electrical connection includes those which may occur in CONDUCTIVE PATTERNS on PRINTED BOARDS.		
	NOTE 1 An electronic protection circuit may be used to prevent such a fault from becoming a POTENTIAL IGNITION SOURCE. NOTE 2 This definition is from AS/NZS 60065:2012, Clause 2.8.11.		
1.5.1	First paragraph, insert the following text after the words 'IEC component standard': 'or the relevant Australian/New Zealand Standard.'	Added.	Р
	In the NOTE, insert the following text after the word 'standard': 'or an Australian/New Zealand Standard'	Added.	
	3. Second paragraph, delete the words 'without further evaluation'.	Deleted.	

			90 2 01 0	<u>'</u>	140. 17000000 001
		Natio	nal Differenc	es	
Clause	Requirement - Test			Result - Remark	Verdict
1.5.2	the word 'standard':		Added.	Р	
	'or an Australian/New 2. First paragraph, secoline, insert the following standard': 'or an Australian/New	nd dash item ng text after	n, second the word		
	3. First paragraph, secon Insert the following te 'standard': 'or an Australian/New in the second s	xt after the w	vord		
1.7.1.3	Delete existing text and refollowing: Graphical symbols placed requirement of this standard accordance with IEC 604 7000, if available. In the asymbols, the manufacture	I on the equi ard, shall be 17 or ISO 38 absence of su	pment as a in 64-2 or ISO uitable	Replaced.	Р
	graphical symbols. Symbols as required by this standard placed on the equipment shall be explained in the user manual.				
2.9.2	Second paragraph, delete	e the word 'd	esignated'.	Deleted.	N/A
3.2.5.1 Table 3B	Modify Table 3B as follows: 1. Delete the first four rows and replace with the following:		Modified.	N/A	
	RATED CURRENT of equipment A Over 0.2 up to and including 3 Over 3 up to and including 7.5 Over 7.5 up to and including 10 Over 10 up to and including 16 2. Delete NOTE 1 and rel	Minimum con Nominal cross- sectional area mm² 0,5 ° 0,75 (0,75) ° 1,00 (1,0) ° 1,5	AWG or kcmil [cross-sectional area in mm²] see Note 2 18 [0,8] 16 [1,3] 14 [2]		
	as 'NOTE'. 3. Delete Footnote a and following: a This nominal cross-sect allowed for Class II applia power supply cord, meas where the cord, or cord g appliance, and the entry t exceed 2 m (0,5 mm² thre cords are not permitted; s	replace with replace with replace is inces if the leured between uard, enters of the plug doee-core supp	only ength of the n the point the pes not ly flexible		

	National Differenc	es	
Clause	Requirement - Test	Result - Remark	Verdict
4.1.201	After Clause 4.1, insert new Clause 4.1.201 as follows: 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.	Inserted.	N/A
4.3.6	Delete the third paragraph and replace with the following: Equipment with a plug portion, suitable for insertion into a 10 A 3-pin flatpin 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.	Deleted and replaced. Not direct plug-in type.	N/A
4.3.8	Eighth paragraph, insert the following new note after the first dash item: 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 Batteries.	N/A
4.3.8.201	After Clause 4.3.8, add the following new clause as 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 Batteries.	N/A
4.3.13.5.1	 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. Third paragraph, first sentence, after 'IEC 60825-1', insert the following text: or AS/NZS 60825.1 Fourth paragraph, after 'IEC 60825-1', insert the following text: or AS/NZS 60825.1 	No Lasers.	N/A
4.7	At the end of Clause 4.7, insert the following text: 'For alternate tests refer to Clause 4.7.201.'	Added. The alternative method is not considered.	N/A

National Differences			
Clause	Requirement - Test	Result - Remark	Verdict
4.7.201	After Clause 4.7.3.6, add new Clauses as follows: 4.7.201 Resistance to fire – Alternative tests	Added. The alternative method is not considered.	N/A
4.7.201.1	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 1mm in width regardless of length. (b) The following parts which would contribute negligible fuel to a fire: - small mechanical parts, the mass of which does not exceed 4g, such as mounting parts, gears, cams, belts and bearings; - small electrical components, such as capacitors with a volume not exceeding 1,750 mm³, integrated circuits, transistors and optocoupler packages, if these components are mounted on material of flammability category V-1, or better, according to AS/NZS 60695.11.10. NOTE In considering how to minimize propagation of fire and what 'small parts' are, account should be taken of the cumulative effect of small parts adjacent to each other for the possible effect of propagating the fire from one part to another. Compliance shall be checked by the tests of 4.7.201.2, 4.7.201.3, 4.7.201.4 and 4.7.201.5. For the base material of printed boards, compliance shall be checked by the test of 4.7.201.5. The tests shall be carried out on parts of nonmetallic 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.	Added. The alternative method is not considered.	N/A

		Page 5 of 9	Report No. 170	
	T	National Difference	es	
Clause	Requirement - Test		Result - Remark	Verdict
4.7.201.2	Parts of non-metallice the glow-wire test of shall be carried out. Parts for which the gcarried out, such as material, shall meet ISO 9772 for categor wire test shall be no material classified a	glow-wire test cannot be those made of soft or foamy the requirements specified in try FH-3 material. The glow-t carried out on parts of t least FH-3 according to ISO he sample tested was not	Added. The alternative method is not considered.	N/A
4.7.201.3		f insulating materials	Added. The alternative method is	N/A
4.7.201.3	Parts of insulating m POTENTIAL IGNITI subject to the glow- 60695.2.11 which sl The test shall be als insulating material w 3 mm of the connec NOTE Contacts in compon considered to be connect For parts which with produce a flame, oth connection within th cylinder having a dia of 50 mm shall be si test. However, parts meets the needle-flame te	naterial supporting ON SOURCES shall be wire test of AS/NZS nall be carried out at 750 °C. o carried out on other parts of which are within a distance of tion. onents such as switch contacts are tions. stand the glow-wire test but her parts above the e envelope of a vertical ameter of 20 mm and a height abjected to the needle-flame shielded by a barrier which hame test shall not be tested. st shall be made in /NZS 60695.11.5 with the	not considered.	IV/A
	Clause of AS/NZS 60695.11.5	Change		
	9 Test procedure 9.2 Application of needleflame 9.3 Number of test specimens 11 Evaluation of test results	Replace the first paragraph with: 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 Replace the second paragraph with: The duration of application of the test flame shall be 30 s ±1 s. Replace with: The test shall be made on one specimen. If the specimen does not withstand the test, the test may be repeated on two further specimens, both of which shall withstand the test. Replace with: The duration of burning (t _b) shall not exceed 30 s. However, for printed circuit boards, it shall not exceed 15 s.		
	The needle-flame te	st shall not be carried out on		

	rage 0 01 9	Report No. 170	00000 001
	National Differenc	es	
Clause	Requirement - Test	Result - Remark	Verdict
4.7.201.4	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. 4.7.201.4 Testing in the event of non-	Added. The alternative method is	N/A
	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 glowwire tip, the needle-flame test detailed in 4.7.201.3 shall be made on all parts of nonmetallic 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. 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. 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. 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 considered.	

	National Difference	es	
Clause	Requirement - Test	Result - Remark	Verdict
Clause 4.7.201.5	<u> </u>	T	N/A
	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. Compliance shall be determined using the		
	smallest thickness of the material. NOTE Available apparent power is the maximum apparent power which can be drawn from the supplying circuit through a resistive load whose value is chosen to maximise the apparent power for more than 2 min when the circuit supplied is disconnected.		
6.2.2	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.	N/A

	National Difference	ees	
Clause	Requirement - Test	Result - Remark	Verdict
6.2.2.1	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, Uc, 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): 1.5 kV. NOTE 201 The 7 kV impulse simulates lightning surges on typical rural and semi-rural network lines.	No TNV.	N/A
6.2.2.2	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. For Australia only, delete the second paragraph including the Note, and replace with the following:	No TNV.	N/A
	In Australia only, the a.c. test voltage is: (i) for 6.2.1 a): 3 kV; and (ii) for 6.2.1 b) and 6.2.1 c): 1.5 kV. NOTE 201 Where there are capacitors across the insulation under test, it is recommended that d.c. test voltages are used. 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.		
7.3	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 cable distribution systems.	N/A
Annex P	Add the following Normative References: AS/NZS 3191, Electric flexible cords AS/NZS 3112, Approval and test specification— Plugs and socket-outlets	Added.	Р

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		National Differences	S	
Clause	Requirement - Test		Result - Remark	Verdict
Index	be used as orientation? AS/NZS 31 AS/NZS 31 AS/NZS 60 AS/NZS 60 AS/NZS 60 AS/NZS 60	insulation' and 'attitude see	nserted.	N/A
	temperature 'powder': Potential ig	bllowing between 'positive coefficient (PTC) device' and nition source		



9, A-Z, a-z, -, \, /, + or blank, represent different enclosure color and sales regions for marketing

purpose only, no technical difference.)



Figure 1. Front view of model 156LM000**; *1659******



Figure 2. Back view of model 156LM000**; *1659******



9, A-Z, a-z, -, \, /, + or blank, represent different enclosure color and sales regions for marketing

purpose only, no technical difference.)



Figure 3. Top view of model 156LM000**; *1659******

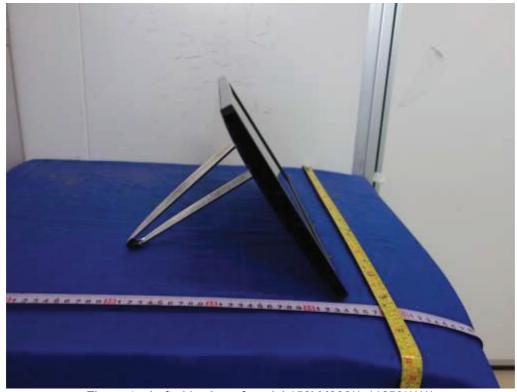


Figure 4. Left side view of model 156LM000**; *1659******



9, A-Z, a-z, -, \, /, + or blank, represent different enclosure color and sales regions for marketing

purpose only, no technical difference.) 17059693 001



Figure 5. Right side view of model 156LM000**; *1659******

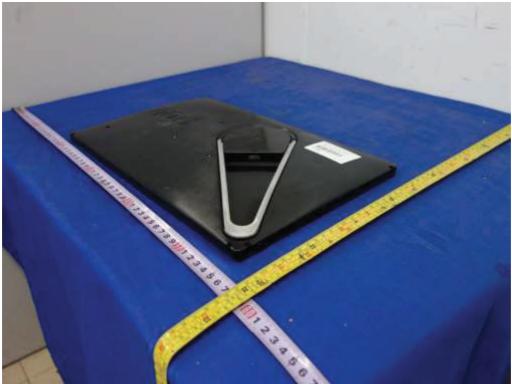


Figure 6. Downward view of model 156LM000**; *1659******



9, A-Z, a-z, -, \, /, + or blank, represent different enclosure color and sales regions for marketing

purpose only, no technical difference.)



Figure 7. Downward view of model 156LM000**; *1659******

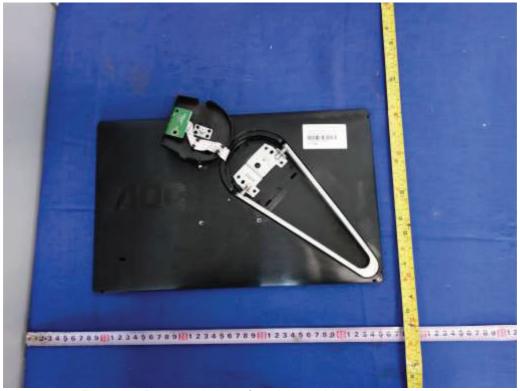


Figure 8. Downward view of model 156LM000**; *1659******



9, A-Z, a-z, -, \, /, + or blank, represent different enclosure color and sales regions for marketing

purpose only, no technical difference.)

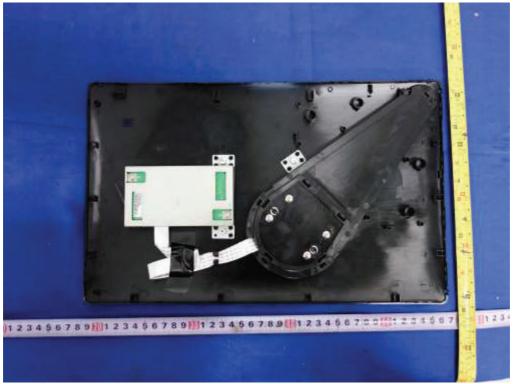


Figure 9. Internal view of model 156LM000**; *1659******



Figure 10. Main board 715G5971



9, A-Z, a-z, -, \, /, + or blank, represent different enclosure color and sales regions for marketing

purpose only, no technical difference.)



Figure 11. Main board 715G5971

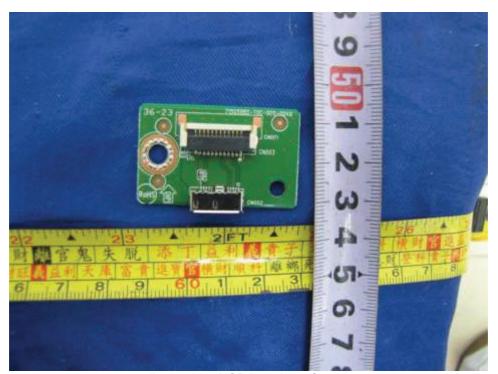


Figure 12. USB board 715G5982



9, A-Z, a-z, -, \, /, + or blank, represent different enclosure color and sales regions for marketing

purpose only, no technical difference.)

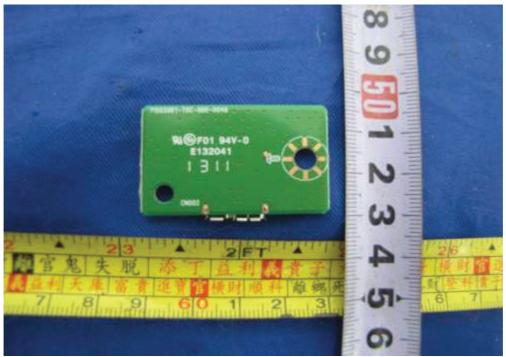


Figure 13. USB board 715G5982



Figure 14. Stand base



Type Designation:

1) 156LM000**; *1659******; 2) *1601******* (* can be 0-9, A-Z, a-z, –, \, /, + or blank, represent different enclosure color and sales regions for marketing

purpose only, no technical difference.) 17059693 001

Report Number:

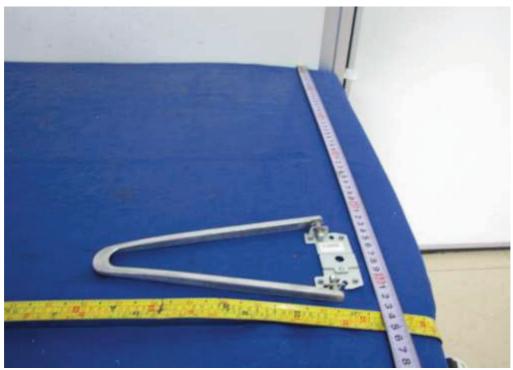


Figure 15. Stand base



Figure 16. Stand base



9, A-Z, a-z, -, \, /, + or blank, represent different enclosure color and sales regions for marketing

purpose only, no technical difference.)

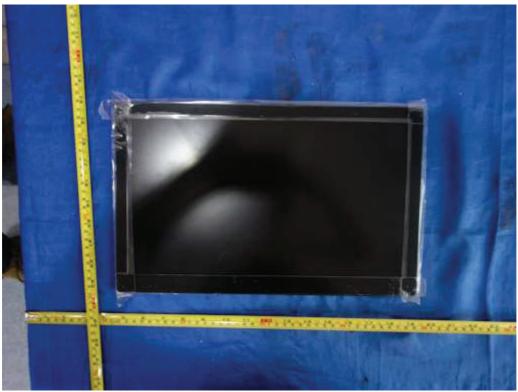


Figure 17. Front view of model *1601*******



Figure 18. Back view of model *1601*******



9, A-Z, a-z, -, \, /, + or blank, represent different enclosure color and sales regions for marketing

purpose only, no technical difference.)

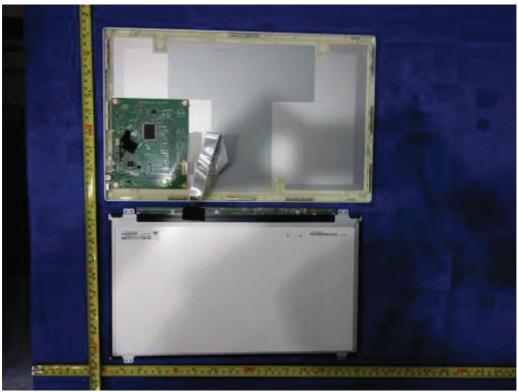


Figure 19. Internal view of model *1601*******



Figure 20. Main board 715G9000