

Name and address of the applicant

Name and address of the manufacturer

Nom et adresse du demandeur

Nom et adresse du fabricant

Nom et adresse de l'usine

Trademark (if any)

Model / Type Ref.

reported on page 2)

to be in conformity with

considéré conforme à la

of this Certificate

Ref. de type

Name and address of the factory

Ratings and principal characteristics

Marque de fabrique (si elle existe)

Valeurs nominales et charactéristiques principales

Type of Manufacturer's Testing Laboratories used

Additional information (if necessary may also be

Les informations complémentaires (si nécessaire,

A sample of the product was tested and found

Un échantillon de ce produit a été essayé et a été

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

Comme indiqué dans le Rapport d'essais numéro de référence qui constitue partie de ce Certificat

peuvent être indiqués sur la 2^{ème} page)

Type de programme du laboratoire d'essais constructeur

Product

Produit

Ref. Certif. No.

JPTUV-052924

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

LCD Monitor

TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road Fuqing City, Fujian Province, P.R. China

TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road Fuqing City, Fujian Province, P.R. China

See additional page(s)

Refer to the test report.

AOC

N/A

Refer to the test report.

For model differences, refer to the test report.

IEC 60950-1:2005 + A1 National differences see test report

17031503 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 Mail: info@jpn.tuv.com Web: www.tuv.com

```
Date:
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02.09.2013

Signature:

Ing. M. Eichenseder

0/061 CB 05.12

Ref. Certif. No.



10/061a DJ2 12.10

JPTUV-052924

		I	PAGE 2 OF 3
 TPV Technology (Beijing) Co., Ltd. No. 10, Jiu Xian Qiao Rd. Chao Yang District, Beijing 100016 P.R. China 			
 Tatung Mexico S.A. de. C.V. Ave. Rosa Ma. Fuentes #7050 Complejo Industrial Fuentes C.P. 32320, Cd. Juarez. Chih, MEXICO 			
 TPV Display Technology (Wuhan) Co., Ltd. Unique No. 11, Zhuankou Developmen District of Economic Technological Development Zone, Wuhan City 4300 			
 TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road Fuqing City, Fujian Province P.R. China 			
5. Tatung Czech s.r.o U Nove Hospody 4 30100 Plzen Czech Republic			
6. Envision Industry of Electronic Products Ltd. Rodovia Anhanguera S/N-KM 49 13.205-700 Tijuco Preto-Jundiaí-SP- Brazil			
7. L&T Display Technology (Fujian) Ltd. Optoelectronic Park, Rongqiao Economic and Technological Development Zone Fuqing, Fujian 350301, P.R. China			
8. Trend Smart CE Mexico S de RL de 0 Avenida Sor Juana Ines de la Cruz de 19602 Nueva Tijuana, 22435 Tijuana Baja California MEXICO	CV		
 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	
Additional information (if necessary Information complémentaire (si néce		rt Ref. No.: 17031503 001	
			1000
Date: 02.09.2013	Signature:	Ing. M. Eichenseder	

Ref. Certif. No.



JPTUV-052924

PAGE 3 OF 3

- Envision Industry of Electronic Products Ltd.
 Av Torquato Tapajós 7503, Galpão : Il Bloco: B-Condomínio de Galpões-Tarumã-Manaus, AM, Brazil
- 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.: 17031503 001

Signature:

Ing. M. Eichenseder



Test Report issued under the responsibility of:



TÜVRheinland®

TEST REPORT

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

Report Number:	17031503 001
Date of issue	Aug. 28. 2013
Total number of pages	45
CB Testing Laboratory	TÜV Rheinland (Shenzhen) Co., Ltd.
Address:	3 & 4 F, Cybio Technology Building No. 1, Langshan No. 2 Road South, 5th Industrial Area, High-Tech Industry Park North, Nanshan District, 518057, Shenzhen, P.R. China
Applicant's name:	TPV Electronics (Fujian) Co., Ltd.
Address:	Shangzheng, Yuan Hong Road, Fuqing City, Fujian Province, P.R. China
Manufacturer's name	TPV Electronics (Fujian) Co., Ltd.
Address:	Shangzheng, Yuan Hong Road, Fuqing City, Fujian Province, P.R. China
Test specification:	
Standard	IEC 60950-1:2005 (Second Edition) + Am 1:2009
Test procedure	CB Scheme
Non-standard test method	N/A
Test Report Form No	IEC60950_1C
Test Report Form(s) Originator:	SGS Fimko Ltd
Master TRF	Dated 2012-08
	n for Conformity Testing and Certification of Electrotechnical ;), Geneva, Switzerland. All rights reserved.
This publication may be reproduced in whole or copyright owner and source of the material. IEC from the reader's interpretation of the reproduce	in part for non-commercial purposes as long as the IECEE is acknowledged as EE takes no responsibility for and will not assume liability for damages resulting d material due to its placement and context.
If this Test Report Form is used by nor Scheme procedure shall be removed.	IECEE members, the IECEE/IEC logo and the reference to the CB
	Report unless signed by an approved CB Testing Laboratory e issued by an NCB in accordance with IECEE 02.
Test item description	LCD Monitor
Trade Mark:	AOC
Manufacturer:	See above
Model/Type reference:	1) 230LM00026, *2371****, 230LM000**, 236LM000**, 240LM000**, *2471**** (230LM00026 is specified model name of 230LM000**, listed by client's request); 2) 215LM000**, *2271*****; 3) 238LM000 **, * 2473 ****** (See Page 10 for definition of "*" in model name)
Ratings:	I/P: 1) DC 12V; 3.0A or 3.75A; Class III; 2) DC 12V; 2.0A or 3.0A; Class III; 3) DC 19V; 3.42A; Class III

Test	ing procedure and testing location:	
\boxtimes	CB Testing Laboratory	TÜV Rheinland (Shenzhen) Co., Ltd.
Test	ing location/ address	3 & 4 F, Cybio Technology Building No. 1, Langshan No. 2 Road South, 5th Industrial Area, High-Tech Industry Park North, Nanshan District, 518057, Shenzhen, P.R. China
	Associated CB Laboratory:	N/A
Test	ing location/ address	N/A
	Tested by (name + signature)	Anderson Wang
	Approved by (name + signature):	Anderson Wang Steven Lin Server and
	Testing procedure: TMP	N/A
Testi	ng location/ address	N/A
	Tested by (name + signature) Approved by (name + signature)	
	Testing procedure: WMT	N/A
Testi	ng location/ address	N/A
	Tested by (name + signature): Witnessed by (name + signature): Approved by (name + signature):	
	Testing procedure: SMT	N/A
Testir	ng location/ address	N/A
	Tested by (name + signature): Approved by (name + signature): Supervised by (name + signature):	
	Testing procedure: RMT	N/A
Testir	ng location/ address	N/A
	Tested by (name + signature)	
	Supervised by (name + signature):	

Testing location:

on page 2

All tests as described in Test Case and

performed at the laboratory described

Measurement Sections were

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

- Photo documentation (10 pages)
- National Differences (59 pages)

Summary of testing:

Tests performed (name of test and test clause):

Following tests performed during evaluation

name of test	test clause number
Input Current Test	1.6.2
Maximum Temperature Test	4.5.2
Fault Condition Test	5.3

Note: The EUT passed the test. Others test data are taken from original CB reports 17029753 001-17029753 004.

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, IL, IT, JP#, KR, NL, NO, PL, SE, SI, SK, US

Explanation of used codes: AT=Austria, AU=Australia, BE=Belgium, CA=Canada, CH=Switzerland, CN=China, CZ=Czech Republic, DE=Germany, DK=Denmark, FI=Finland, FR=France, GB=United Kingdom, GR=Greece, HU=Hungary, IL=Israel, IT=Italy, 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 evaluated.

National differences to IEC 60950-1:2001 evaluated.

Japan deviations J60950-1 (H22) and J3000 (H21) both covered.

The product fulfils the requirements of EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011.

Copy of marking plate

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



Page 5 of 45



Test item particulars	
Equipment mobility:	[x] movable [] hand-held [] transportable
	[] stationary [] for building-in [] direct plug-in
Connection to the mains:	
	[] permanent connection [] detachable power supply cord
	[] non-detachable power supply cord
	[x] not directly connected to the mains
Operating condition] rated operating / resting time:
Access location:	[x] operator accessible [] restricted access location
Over voltage category (OVC):	[] OVC I [x] OVC II [] OVC III [] OVC IV [] other:
Mains supply tolerance (%) or absolute mains supply	
values	
Tested for IT power systems	[] Yes [x] No
IT testing, phase-phase voltage (V)	
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)	
of the building installation (A) Pollution degree (PD)	
IP protection class	
Altitude during operation (m)	
Altitude of test laboratory (m)	•
Mass of equipment (kg)	
	Unit: 2.80kg, Base: 0.42kg (For 23 inch models);
	Unit: 3.21kg, Base: 0.42kg (For 23.6 inch models);
	Unit: 3.74kg, Base: 0.42kg (For 24 inch models); Unit: 4.36kg, Base: 0.85kg (For 23.8 inch models);
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:	Aug.2013
Date(s) of performance of tests:	Aug.2013
General remarks:	
The test results presented in this report relate only to the This report shall not be reproduced, except in full, without laboratory.	•
"(see Enclosure #)" refers to additional information ap "(see appended table)" refers to a table appended to th	
Throughout this report a 🗌 comma / 🖾 point is used	as the decimal separator.

Manufacturer's Declaration per sub-clause 6.2.5 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		es ot applicable
When differences exist; they shall be identified in the G	eneral	product information section.
Name and address of factory (ies)	1	TPV Technology (Beijing) Co., Ltd.
		No.10 Jiu xian qiao Rd., Chao yang
		District, Beijing 100016, P.R. China
	2	Tatung Mexico S.A. de. C.V.
		Ave. Rosa Ma. Fuentes #7050, Complejo
		Industrial Fuentes, C.P. 32320, Cd.
		Juarez. Chih, MEXICO
	3	TPV Display Technology (Wuhan) Co., Ltd.
		Unique No. 11, Zhuankou Development,
		District of Economic Technological
		Development Zone, Wuhan City 430056,
		P.R. China
	4	TPV Electronics (Fujian) Co., Ltd.
		Shangzheng, Yuan Hong Road, Fuqing
	-	City, Fujian Province, P.R. China
	5	Tatung Czech s.r.o.
		U Nove Hospody 4, 30100 Plzen, Czech
	6	Republic Envision Inductor of Electronic Products
	0	Envision Industry of Electronic Products Ltd.
		Rodovia Anhanguera S/N-KM 49, 13.205-
	7	700 Tijuco Preto-Jundiaí-SP-Brazil
	7	L&T Display Technology (Fujian) Ltd.
		Optoelectronic Park, Rongqiao Economic
		and Technological Development Zone, Fuqing, Fujian 350301, P. R. China
	8	Trend Smart CE Mexico S de RL de CV
	0	Avenida Sor Juana Ines de la Cruz de
		19602 Nueva Tijuana, 22435 Tijuans
		Baja California, MEXICO
	9	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
	10	Envision Industry of Electronic Products
		Ltd.
		Av Torquato Tapajós 7503, Galpão : II
		Bloco: B – Condomínio de Galpões –
		Tarumã - Manaus,AM, Brazil
	11	TPV Technology (Qingdao) Co.,Ltd.
		No.99 Huoju Road, High-tech Industrial
		Development Zone, Qingdao City,
		Shandong Province, P.R. China
	12	TPV Display Technology (China) Co., Ltd.
		No.106 Jinghai 3 Rd., BDA, Beijing City
		100176. P.R. China.

General product information:	General	product	information:
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The all series models are LCD monitors intended for general office use and have following features:

- 1. LCD Type: TFT LCD with LED back light, 5 kinds of panel sizes.
- 2. External approved adapters used;
- 3. Four alternative main boards:

Main board 715G5276 includes VGA, DVI ports. Main board 715G5881 includes VGA, HDMI ports. Main board 715G6329 includes VGA, HDMI, Audio-in and Audio out ports. Main board 715G6295 includes VGA, HDMI, Audio-in and Audio-out ports.

- 4. Five plastic enclosures, type A, A', A", A" and B. Type A, A', A" and A" are identical except size. The external plastic enclosure is regarded as decorative part, made of min. HB material.
- 5. Two bases: Type A and B, see photo document for details.
- 6. Maximum declared ambient: 40°C.

This report is based on TUV Rheinland CB reports 17029753 001-005 for fourth modification, in addition to:

- 1. Add two new models: **238LM000**^{**} and ***2473**^{******}, which are identical except for type designation. The two models are identical to original model 215LM000^{**} except for:
 - 1) Used with 23.8 inch panel;
 - 2) Used with new AC/DC adapter;
 - 3) Used with new main boards 715G6329 and 715G6295 only
 - 4) Different current rating;
 - 5) Used with new plastic enclosure Type B;
 - 6) Used with new stand base Type B.
- 2. Add new main boards 715G6329 and 715G6295 for 23.8 inch models only.
- Add three new AC/DC adapters: ADS-65LSI-12-1 12045G, ADS-45NP-12-1 12036G,

ADS-65LSI-19-1 19065G

For the above described change(s) the following was considered to be necessary:

Change	Testing	Comments
1-3	 Input test Maximum Temperature Test Fault Condition Test 	See following pages for test details. See Table 1.5.1 for the added components.

See below table for differences among the models:

Model	Panel	AC/DC adapter	Plastic enclosure	Base
215LM000**, *2271*****	21.5 inch LCD panel with LED backlight	ADPC1236-, ADPC1236, ADS-45NP-12-1 12036G	Туре А'"	Туре А

238LM000**, *2473******	23.8 inch L D panel with LED backlight	ADPC1965, ADS-65LSI-19-1 19065G	Туре В	Туре В
240LM000**, *2471**** (For model *2471****: when the third "*" ≠ W or w)	24 inch LCD panel with LED backlight		Тур А"	уре А
236LM000**, *2471**** (For model *2471****: when the third "*" = W or w)	23.6 inch LCD panel with LED backlight	ADS-65LSI-12-1 12045G, ADS-45NP-12-1 12036G	Туре А'	Туре А
230LM00026, *2371****, 230LM000**	23 inch LCD panel with LED backlight	ADPC1236, ADPC1245,	Туре А	Туре А

Note(s):

1. Plastic enclosure type A, A', A", A" are identical except for dimensions due to different panel size (type A< type A'<type A"<type A").

Definition of variable(s):

Variable:	Range of variable:	Content:	
215LM00	00**, *2271*****, *2371****, 230LM000**,	236LM000**, 240LM000**, 238LM000	**, *2473*****
*	can be 0-9, a-z, A-Z, "+", "-", "/", "\" or blank	For marketing purpose only, no tech	nical difference.
*2471****		- ·	
Third "*"	When it can be "W" or "w"	It means this model is used with 23. panel.	6 inch LCD
	When it can be 0-9, a-z, A-Z, "+", "-", "/ "\" or blank except for W and w	", It means this model is used with 24	nch LCD panel.
Others "*"	can be 0-9, a-z, A-Z, "+", "-", "/", "\" or blank	For marketing purpose only, no tech	nical difference.
	·	·	
Abbrevia	tions used in the report:		
- normal c - functiona	conditions N.C. al insulation OP	- single fault conditions - basic insulation	S.F.C Bl

- supplementary insulation

- reinforced insulation

SI

RI

DI

BOP

- double insulation

polarity

- between parts of opposite

Report No. 17031503 001

IEC 60950-1

	Clause	Requirement + Test	Result - Remark	Verdict
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1

GENERAL

1.5 Components			
1.5.1	General		Р
	Comply with IEC 60950-1 or relevant component standard	(see appended tables 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.	Ρ
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.	Ρ
1.5.6	Capacitors bridging insulation	Considered in approved external adapters.	N/A
1.5.7	Resistors bridging insulation		Р
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	Considered in approved external adapters.	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		N/A
1.5.9	Surge suppressors	No such component used	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	No such construction.	N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	No such construction.	N/A

1.6

Power interface

Ρ

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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

1.7	Marking and instructions		Р
1.7.1	Power rating and identification markings	See below	Р
1.7.1.1	Power rating marking		Р
	Multiple mains supply connections	Single power source	N/A
	Rated voltage(s) or voltage range(s) (V):	(see copy of the marking plate on page 5-6)	Р
	Symbol for nature of supply, for d.c. only:	(see copy of the marking plate on page 5-6)	Р
	Rated frequency or rated frequency range (Hz):		N/A
	Rated current (mA or A):	(see copy of the marking plate on page 5-6)	Р
1.7.1.2	Identification markings		Р
	Manufacturer's name or trade-mark or identification mark	(see copy of the marking plate on page 5-6)	Ρ
	Model identification or type reference:	(see copy of the marking plate on page 5-6)	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.	Ρ
1.7.2	Safety instructions and marking	See below	Р
1.7.2.1	General	Instructions are available.	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		N/A
1.2.7.6	Ozone	The equipment does not produce ozone.	N/A
1.7.3	Short duty cycles	The equipment is designed for continuous operation.	N/A
1.7.4	Supply voltage adjustment:	No voltage selector.	N/A

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IEC	60950- ⁻	1
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	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Methods and means of adjustment; reference to installation instructions:		N/A
1.7.5	Power outlets on the equipment:	No standard power outlets provided.	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):		N/A
1.7.7	Wiring terminals		N/A
1.7.7.1	Protective earthing and bonding terminals:		N/A
1.7.7.2	Terminals for a.c. mains supply conductors		N/A
1.7.7.3	Terminals for d.c. mains supply conductors	Not connected to d.c. mains supply directly	N/A
1.7.8	Controls and indicators	See below	Р
1.7.8.1	Identification, location and marking:	"STAND-BY" condition is indicated by the symbol according to IEC 60417-5009.	Р
1.7.8.2	Colours:	Colours used for LED indicate the operation status and not involved safety.	Р
1.7.8.3	Symbols according to IEC 60417:	See 1.7.8.1	Р
1.7.8.4	Markings using figures		N/A
1.7.9	Isolation of multiple power sources:	Single power source	N/A
1.7.10	Thermostats and other regulating devices::	Such devices not used.	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. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge.	Ρ
1.7.12	Removable parts	No removable part.	N/A
1.7.13	Replaceable batteries:	No battery provided.	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		Р

2	

PROTECTION FROM HAZARDS EUT supplied by approved switching AC/DC adapter, no hazards inside Ρ

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Report No. 17031503 001

	Page 13 of 45	Report No. 1703	1503 00 ⁻
	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdic
2.1	Protection from electric shock and energy hazards		Р
2.1.1	Protection in operator access areas	See above.	N/A
2.1.1.1	Access to energized parts		N/A
	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		Р
2.1.1.6	Manual controls	No conductive shafts of operating knobs, handles, levers and the like.	N/A
2.1.1.7	Discharge of capacitors in equipment		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:	No such circuits.	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	N/A

2.2	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. is not exceeded in SELV circuit under normal operation.	Ρ
2.2.3	Voltages under fault conditions (V):	Considered in approved external adapter.	Ρ
2.2.4	Connection of SELV circuits to other circuits:	Connect to SELV circuit	Р

locations

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IEC	60950-1
	00330-1

Clause Requirement + Test Result - Remark Verdict

2.3	TNV circuits	No TNV circuits	N/A
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	N/A
2.4.1	General requirements	N/A
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 Approved switching AC/DC adapter used and complied to LPS		
	a) Inherently limited output	N/A	
	b) Impedance limited output	N/A	
	c) Regulating network limited output under normal operating and single fault condition	N/A	
	d) Overcurrent protective device limited output	N/A	
	Max. output voltage (V), max. output current (A), max. apparent power (VA):		
	Current rating of overcurrent protective device (A) .:		
	Use of integrated circuit (IC) current limiters		

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Result - Remark

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2.6	Provisions for earthing and bonding EUT supplied by approved class I switching AC/DC adapter		
2.6.1	Protective earthing	N/A	
2.6.2	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 (mm ²), AWG	—	
2.6.3.3	Size of protective bonding conductors	N/A	
	Rated current (A), cross-sectional area (mm ²), AWG		
	Protective current rating (A), cross-sectional area (mm ²), 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	

2.7	Overcurrent and earth fault protection in primary circuits	N/A
	Considered in approved switching AC/DC adapter	

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Requirement + Test	Result - Remark	Verdict
	1	
Basic requirements		N/A
Instructions when protection relies on building installation		N/A
Faults not simulated in 5.3.7		N/A
Short-circuit backup protection		N/A
Number and location of protective devices		N/A
Protection by several devices		N/A
Warning to service personnel		N/A
	Basic requirements Instructions when protection relies on building installation Faults not simulated in 5.3.7 Short-circuit backup protection Number and location of protective devices Protection by several devices	Basic requirements Instructions when protection relies on building installation Faults not simulated in 5.3.7 Short-circuit backup protection Number and location of protective devices Protection by several devices

2.8	Safety interlocks		N/A
2.8.1	General principles	No safety interlocks or similar devices within the equipment.	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 Approved switching AC/DC adapter used, only functional insulation considered in EUT		Р
2.9.1	Properties of insulating materials		N/A
2.9.2	Humidity conditioning		N/A
	Relative humidity (%), temperature (°C)		
2.9.3	Grade of insulation	Functional insulation considered (see appended table 5.3)	Р
2.9.4	Separation from hazardous voltages		N/A
	Method(s) used:		

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2.10	Clearances, creepage distances and distances through insulation Approved switching AC/DC adapter used, only functional insulation considered in <i>EUT</i> , see appended table 5.3 for details			
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	

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Clause	Requirement + Test	Result - Remark	Verdict
2.10.4.2	Material group and comparative tracking index		N/A
	CTI tests		N/A
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):		N/A
2.10.5.8	Non-separable thin sheet material		N/A
2.10.5.9	Thin sheet material – standard test procedure		N/A
	Electric strength test		N/A
2.10.5.10	Thin sheet material – alternative test procedure		N/A
	Electric strength test		N/A
2.10.5.11	Insulation in wound components		N/A
2.10.5.12	Wire in wound components		N/A
	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		N/A
	Routine test		N/A
2.10.5.14	Additional insulation in wound components		N/A
	Working voltage		N/A
	- Basic insulation not under stress:		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

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Clause	Requirement + Test	Result - Remark	Verdict
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N/A
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.	Ρ
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.	Ρ
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.	Ρ
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

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Clause	Requirement + Test	Result - Remark	Verdict
3.1.8	Self-tapping and spaced thread screws	No self-tapping screws are used.	N/A
3.1.9	Termination of conductors	All conductors are reliably secured.	Р
	10 N pull test		N/A
3.1.10	Sleeving on wiring	No sleeving on wire used	N/A

3.2	Connection to a mains supply EUT not connected to mains directly	
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
	Type:	
	Rated current (A), cross-sectional area (mm ²), 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

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Clause	Requirement + Test	Result - Remark	Verdict
3.3.4	Conductor sizes to be connected		N/A
	Rated current (A), cord/cable type, cross-sectional area (mm ²):		
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	3.8 Stranded wire		N/A

3.4	Disconnection from the mains supply EUT not connected to mains directly	
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	
3.4.6	Number of poles - single-phase and d.c. equipment	
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	
3.4.10	Interconnected equipment	
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 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	All data ports are located on main board, which is supplied by LPS.	Р

-	4	PHYSICAL REQUIREMENTS	Р
	4.1	Stability	Р

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Clause Requirement + Test		Result - Remark	Verdict
	Angle of 10°	Test performed by client's requirement.	Р
	Test force (N):		N/A

4.2	Mechanical strength EUT supplied by approved switching AC/DC adapter, no hazardous live parts inside		N/A
4.2.1	General		Р
	Rack-mounted equipment.		N/A
4.2.2	Steady force test, 10 N		Р
4.2.3	Steady force test, 30 N		Ρ
4.2.4	Steady force test, 250 N		Р
4.2.5	Impact test		Р
	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	No such lamps	N/A
4.2.10	Wall or ceiling mounted equipment; force (N):		N/A
4.2.11	Rotating solid media	No such parts	N/A
	Test to cover on the door		N/A

4.3	Design and construction		
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	Mechanical fixings in such a way designed that they will withstand mechanical stress occurring in normal use	Ρ
4.3.5	Connection by plugs and sockets	SELV voltage connections for the data port output. Not compatible with connection for the input	N/A
4.3.6	Direct plug-in equipment	Not such equipment.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
	Torque:			
	Compliance with the relevant mains plug standard		N/A	
4.3.7	Heating elements in earthed equipment	Not such heating elements.	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		N/A	
	Part, property, retention after test, flammability classification:		N/A	
4.3.13.4	Human exposure to ultraviolet (UV) radiation:		N/A	
4.3.13.5	Lasers (including laser diodes) and LEDs	No such parts used	N/A	
4.3.13.5.1	Lasers (including laser diodes)	Indicating LED on secondary is inherently Class1 according to IEC 60825-1.	Р	
	Laser class:	Class 1	—	
4.3.13.5.2	Light emitting diodes (LEDs)		N/A	
4.3.13.6	Other types:		N/A	

4.4	1	Protection against hazardous moving parts	N/A
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Clause	Requirement + Test	Result - Remark	Verdict
4.4.1	General		N/A
4.4.2	Protection in operator access areas:		N/A
	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	

4.6	Openings in enclosures No requirement, no dangerous parts and no fire enclosure		N/A
4.6.1	I.6.1 Top and side openings		N/A
	Dimensions (mm):		
4.6.2	Bottoms of fire enclosures	No fire enclosures	N/A
	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

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

4.7	Resistance to fire EUT supplied by approved switching AC/D0	C adapter which complied to LPS	Ρ
4.7.1	Reducing the risk of ignition and spread of flame	No excessive temperatures. No easily burning materials employed. Fire enclosure provided. Safety relevant components used within their specified temperature limits.	Ρ
	Method 1, selection and application of components wiring and materials	(see appended table 1.5.1)	Р
	Method 2, application of all of simulated fault condition tests		N/A
4.7.2	Conditions for a fire enclosure	The unit is powered by LPS from approved external adapters, and internal parts/components mounted on V-1 PCB.	Ρ
4.7.2.1	Parts requiring a fire enclosure	See above.	Р
4.7.2.2	Parts not requiring a fire enclosure	EUT supplied by approved switching AC/DC adapter which complied to LPS	Ρ
4.7.3	Materials		Р
4.7.3.1	General	PCB rated V-1	Р
4.7.3.2	Materials for fire enclosures		N/A
4.7.3.3	Materials for components and other parts outside fire enclosures	See above	N/A
4.7.3.4	Materials for components and other parts inside fire enclosures	See above	N/A
4.7.3.5	Materials for air filter assemblies	No air filter.	N/A
4.7.3.6	Materials used in high-voltage components	No such high voltage components in this meaning	N/A

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ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS

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5.1	Touch current and protective conductor current EUT supplied by approved switching AC/DC adapter	N/A
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
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
		EUT supplied by approved switching AC/DC adapter	
5.2.1	General		N/A

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5.2.2	Test procedure		N/A

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		N/A	
5.3.4	Functional insulation	(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, no molten metal, no enclosure deformation and no temperature exceeding those in table 5D	Ρ	
5.3.9.2	After the tests		N/A	

6	CONNECTION TO TELECOMMUNICATION NETWORKS		
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment		
6.1.1	Protection from hazardous voltages		
6.1.2	Separation of the telecommunication network from earth		
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 overvoltages 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	(see appended table 5.2)	N/A
6.2.2.2	Steady-state test	(see appended table 5.2)	N/A
6.2.2.3	Compliance criteria		N/A

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

6.3	Protection of the telecommunication wiring system from overheating	N/A
	Max. output current (A)	
	Current limiting method:	

7	CONNECTION TO CABLE DISTRIBUTION SYSTEM	MS	N/A
7.1	General		N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		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	(see appended table 5.2)	N/A
7.4.3	Impulse test	(see appended table 5.2)	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)	
A.2.1	Samples, material	
	Wall thickness (mm)	
A.2.2	Conditioning of samples; temperature (°C):	N/A

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Clause	Requirement + Test	Result - Remark	Verdict		
A.2.3	Mounting of samples		N/A		
A.2.4	Test flame (see IEC 60695-11-4)		N/A		
	Flame A, B or C:				
A.2.5	Test procedure		N/A		
A.2.6	Compliance criteria		N/A		
	Sample 1 burning time (s):				
	Sample 2 burning time (s):				
	Sample 3 burning time (s):				
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9		N/A		
	Sample 1 burning time (s):				
	Sample 2 burning time (s):				
	Sample 3 burning time (s):				
A.3	Hot flaming oil test (see 4.6.2)		N/A		
A.3.1	Mounting of samples		N/A		
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	(see appended table 5.3)	N/A
B.4	Running overload test	(see appended table 5.3)	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

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Clause	Requirement + Test	Result - Remark	Verdict
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	(see appended table 5.3)	N/A
B.9	Test for three-phase motors	(see appended table 5.3)	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	
	Туре	
	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 TOU (see 5.1.4)	CH-CURRENT TESTS	N/A
D.1	Measuring instrument		N/A
D.2	Alternative measuring instrument		N/A

N/A

F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES	N/A
	(see 2.10 and Annex G)	

G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		N/A
G.1	Clearances		N/A
G.1.1	General		N/A

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Clause	Requirement + Test	Result - Remark	Verdict		
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		
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	
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J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)	
	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

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Clause	Requirement + Test	Result - Remark	Verdict

L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	
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

М	ANNEX M, CRITERIA FOR TELEPHONE RINGING 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 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)	
N.1	ITU-T impulse test generators	N/A
N.2	IEC 60065 impulse test generator	N/A

P ANNEX P, NORMATIVE REFERENCES

Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	N/A
	a) Preferred climatic categories:	N/A
	b) Maximum continuous voltage:	N/A
	c) Pulse current:	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES	
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 (see 6.2.2.3)		N/A
S.1	Test equipment		N/A
S.2	Test procedure		N/A
S.3	Examples of waveforms during impulse testing		N/A

т	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		N/A
		See separate test report	

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

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

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Clause	Requirement + Test	Result - Remark	Verdict
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)	N/A
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ΔΔ	ANNEX AA, MANDREL TEST (see 2.10.5.8)	N/A
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CC	ANNEX CC, Evaluation of integrated circuit (IC) current limiters		N/A
CC.1	General		N/A
CC.2	Test program 1		N/A
CC.3	Test program 2		N/A

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, 250N, including end stops	N/A
DD.4	Compliance	N/A

EE	ANNEX EE, Household and home/office document/media shredders	N/A			
EE.1	E.1 General				
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			

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Clause Requirement + Test

Result - Remark

Verdict

1.5.1	TABLE :list of critical components				Р	
Object/part no.	Manufacture/ trademark	Type/model	Technical data	standard	Mark(s) of conformity ¹⁾	
LCD Panel for 23 inch models	SAMSUNG	LTM230HT**-*** (*can be 0-9, A-Z, blank)	23" TFT type, with LED back light power consumption: 26.5W LED Array Voltage: 59.5V		Tested in equipment	
	LG Display	LM230WF*-**** (*can be 0-9, A-Z, blank)	23" TFT type, with LED back light power consumption: 17.8W LED Array Voltage: 50.3V		Tested in equipment	
	L&T	LM230WF*-**** (*can be 0-9, A-Z, blank)	23" TFT type, with LED back light power consumption: 23.3W LED Array Voltage: 52.8V		Tested in equipment	
	L&T	BM230WF*-**** (*can be 0-9, A-Z, blank)	23" TFT type, with LED back light power consumption: 22.5W LED Array Voltage: 57.6V		Tested in equipment	
LCD Panel for 23.6 inch models	BOE	HM236WU*-*** (* can be 0-9, A-Z and blank, for marketing purpose only)	23.6" TFT type, with LED back light, power consumption: 18.7W; LED Array Voltage: 37.4V		Tested in equipment	
	CHIMEI INNOLUX	M236HGJ-L** (* can be 0-9, A-Z and blank, for marketing purpose only)	23.6" TFT type, with LED back light, power consumption: 19.09W; LED Array Voltage: 47.6V		Tested in equipment	
	IVO	M236MWF* (* can be 0-9, A-Z and blank, for marketing purpose only)	23.6" TFT type, with LED back light, power consumption: 17.7W; LED Array Voltage: 31.5V		Tested in equipment	

		IEC	60950-1				
Clause	Requirement +	Test		Result	- Remark		Verdict
	TPV		23.6" TFT type LED back light power consum 19.35W; LED Array Volt 51.2V	, ption:		Teste equip	
LCD Panel for 24 inch models	AUO	M240HW** (* can be 0-9, A-Z and blank, for marketing purpose only)	24" TFT type, LED back light power consum 17.6W; LED Array Volt 54.4V	, ption:		Teste equip	
	AUO		24" TFT type, LED back light power consum 20.62W; LED Array Volt 46.2V	, ption:		Teste equip	
	TPV	TPM240*** (* can be 0-9, A-Z and blank, for marketing purpose only)	24" TFT type, LED back light power consum 16.65W; LED Array Volt 49V	, ption:		Teste equip	
LCD Panel for 21.5 inch models	TPV	TPM215HW**- ****** (* can be 0-9, A-Z and blank, for marketing purpose only)	21.5 inch TFT with LED back power consum 18.3W; LED Array Volt 41.6V	light, ption:		Teste equip	
	AUO	(* can be 0-9, A-Z	power consum	light, ption:		Teste equip	-
	LG Display	LM215WF*-**** (* can be 0-9, A-Z and blank, for marketing purpose only)	21.5 inch TFT with LED back power consum 22.29W; LED Array Volt 39.0V	light, ption:		Teste equip	
	CMIMEI INNOLUX	M215H**-*** (* can be 0-9, A-Z and blank, for marketing purpose only)	21.5 inch TFT with LED back power consum 16.97W; LED Array Volt 34.65V	light, ption:		Teste equip	

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Clause	Requirement + Tes			Result - Remark			
			Result - Remark Verdi				
	L&T	BM215WF*-**** (* can be 0-9, A-Z and blank, for marketing purpose only)	21.5 inch TFT ty with LED back li power consump 16.3W; LED Array Volta 51.2V	ght, tion:	Tested in equipment		
LCD Panel for 23.8 inch models	ТРV	LM238WF* 21.5 inch TFT type, (* can be 0-9, A-Z and blank, for power consumptior marketing 17.3W; purpose only) LED Array Voltage: 52V		light, ption:	Tested in equipment		
AC/DC Adapter	TPV Electronics (Fujian) Co., Ltd.	ADPC1236-	AC Input: 100- 240VAC, 50-60Hz, 1.3A Max DC Output: 12VDC, 2.0A Complied with limited power source, altitude 5000m.		-1, CB by Nemko (CB certificate No: NO68162, dated: 23.03.2012), UL(E226084)		
	TPV Electronics (Fujian) Co., Ltd.ADPC1236Top Victory Electronics (Taiwan) Co., Ltd.ADPC1245		AC Input: 100- 240VAC, 50-60H 1.3A DC Output: 12VDC, 3.0A Complied with lin power source, a 5000m.	nited	-1, CB by Nemko (CB certificate No: NO68162, dated: 23.03.2012), UL(E226084)		
			AC Input: 100- 240VAC, 50-60F 1.5A DC Output: 12VDC, 3.75A Complied with lin power source, a 5000m.	nited	-1, CB by TUV (CB certificate No: JPTUV- 039282 dated: 12.03.2013) UL(E226084)		
	ТРV	ADPC1965**** (* can be 0-9, A-Z, a-z, +, -, / or blank)	an be 0-9, A-Z, , +, -, / or Output: 19Vdc,		NEMKO CB (Certif. No. 68767) ²⁾		
	HONOR	ADS-45NP-12-1 12036G	Input: 100-240\ 50-60Hz, 1.2A M Output: 12Vdc, Complied with	Max EN60950-1 3.0A	TUV (CB certificate No: JPTUV- 036720, dated 29.12.2010) ^{2),3}		

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	HONOR	ADS-65LSI-12-1 12045G	Input: 100-24 50-60Hz, 1.2		IEC 60950-1, EN60950-1	TUV	ertificate
Clause	Requirement -	- Test		Result	- Remark		Verdict
		IEO	C 60950-1				
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			3.75A Complied with LPS		041117 dated: 18.11.2011) ^{2),3)}
	HONOR	ADS-65LSI-19-1 19065G	Input: 100-240Vac, 50-60Hz, 1.2A Max Output: 19Vdc, 3.42A Complied with LPS	IEC 60950-1, EN60950-1	TUV (CB certificate No: JPTUV- 041117 dated: 18.11.2011) ^{2),3)}
Plastic Enclosure	Cheil	SD-0150, VH-0810(+), VE-0812, NH-1000T(+), GC-0700(+), GC-0750(+), VE-1890(+), TP-1100(+), BF-0675(+), BF-0670F, NH-1017T, NH-1017T, NH-1017(+), BF-0677(+), HS-7000RA, LX-0591(+), LX-0597(+), HG-0760(+), HR-1360,	HB or better, 60°C, thickness 2.0mm min.	UL 94	UL (E115797)
	Grand	D-150, D-1000A	HB or better, 60°C, thickness 2.0mm min.	UL 94	UL (E88637)
	Chi Mei	PA-757(+), PH-88	HB or better, 60°C, thickness 2.0mm min.	UL 94	UL (E196075)
	BASF	GP-35, GP-22, 495F	HB or better, 60°C, thickness 2.0mm min.	UL 94	UL (E41871)
	Bayer	FR2000, FR3005	HB or better, 60°C, thickness 2.0mm min.	UL 94	UL (E41613)

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Clause	Doguiroment I T		60950-1	- Remark	Vordiet		
Clause	Requirement + T	est	Result	- Remark	Remark Verdic		
	LG	HF-350, HF-380, AF-312T1, AF-342T, GN-5001TF, GN-5001RFD, GN-5008A-F, SE750(#), XG-568, XG-569C, GP-1000L, SE-750, GN-5001RF, GN-5001RFT, GN-5008HF, SE885	HB or better, 60°C, thickness 2.0mm min.	UL 94	UL (E67171)		
	Teijin	TN-7500, TN-7500F(#) MN-3600H MN-3600HA	HB or better, 60°C, thickness 2.0mm min.	UL 94	UL (E98529, E244324)		
	STYRON	STYRON A-TECH 1400	HB or better, 60°C, thickness 2.0mm min.	UL 94	UL (E73656)		
	King Fa	5197 HIPS-5197, HF-606, FRABS-518, GAR-011C, JH960 6(M), FRHIPS-960, RS-900, RS-300, RS-300, RS-400, GAR-011(L65) GAR-011(HG6) CK-100 RD-900	HB or better, 60°C, thickness 2.0mm min.	UL 94	UL (E171666)		
	Haier	HRABS-RS, HRABS-HG, CR-3002	HB or better, 60°C, thickness 2.0mm min.	UL 94	UL (E230779)		
	HINGLONG	HL-ABS-PCR85, HL-ABS-PCR65	HB or better, 60°C, thickness 2.0mm min.	UL 94	UL (E345434)		
Vetal Enclosure	Various	Various	Metal, 0.6mm thick	IEC/EN 60950-1	Test with appliance		
Base stand	Various	Various	HB or better		UL		
РСВ	Various	Various	V-1 or better Min. 105°C		UL		

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Clause	Requirement + Test		Result - Remark	Verdict	

Note:

- 1. An asterisk indicates a mark that assures the agreed level of surveillance.
- 2. * indicates that the adapter with the plug portion for specific country compliance to national requirements to be evaluated during the National approval for this product.
- 3. After evaluation, the external adapter can fulfill the requirements of the standard mentioned on cover page.

1.6.2	TABLE: El	ectrical data	a (in normal	conditions)		Ρ
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
Tested with	n Panel LTM	230HT**-***,	main board	715G5276,	VGA mode		
12.04	1.67	3.0	20.11			Normal load condition	
Tested with	n Panel LTM	230HT**-***,	main board	715G5276,	DVI mode		
12.04	1.66	3.0	19.99			Normal load condition	
Tested with	n Panel LTM	230HT**-***,	main board	715G5881, '	VGA mode		
12.01	1.60	3.0	19.22			Normal load condition	
Tested with	n Panel LTM	230HT**-***,	main board	715G5881,	HDMI mode		
12.01	1.72	3.0	20.66			Normal load condition	
Tested with	n Panel LM2	15WF*-****(L	G), main bo	ard: 715G58	81, HDMI mo	ode	
12.22	1.43	2.0	17.47			Normal load condition	
Tested with	n Panel LM2	15WF*-****,	main board:	715G5881, H	IDMI mode		
12.19	1.41	3.0	16.42			Normal load condition	
Tested with	n Panel LM2	38WF*, mair	board: 7150	G6295, VGA	mode		
18.8	1.42	3.42	26.67			Normal load condition	
Tested with	n Panel LM23	38WF*, mair	board: 7150	G6295, HDM	l mode	-	
18.8	1.79	3.42	33.56			Normal load condition	
Tested with	n Panel LM23	38WF*, mair	board: 7150	G6329, VGA	mode	•	
18.8	1.28	3.42	24.06			Normal load condition	
Tested with	n Panel LM23	38WF*, mair	board: 7150	G6329, HDM	l mode	•	
18.8	1.35	3.42	23.35			Normal load condition	
Note(s):	1	1	1	1	1	1	

1. Operated under 100% brightness, 100% contrast, full white screen, optimal resolution@60Hz, 2 pieces of speakers were loaded with 1 KHz noise and turned to maximum volume.

2. Tested with panel mentioned above, due to it has the highest power consumption declared in specification. See Table 1.5.1 for the details.

3. All other tests were performed with the construction which is including main board 715G5881(HDMI mode) which generates the highest power consumption.

		IEC	; 60950-1			
Clause	Requirement -	⊦ Test	Result - Re	mark	Verdict	
4.5.1	Т	ABLE: Maximum temp	peratures		P	
	te	est voltage (V)	12Vdc			
	t _a	amb (°C)	See below.			
maximum	temperature T of	f part/at::	T (°C)	allowed T _{max}		
Tested or	n 23 inch models	s with panel LTM230H	T**-***, main board 715G5	276, VGA mode		
DC inlet C	N701(on main bo	pard)	42.1	4	9.7	
PCB near	U102 body (on m	nain board)	52.1	8	4.7	
L701 (on r	main board)		68.4	8	4.7	
C718 (on	main board)		52.1	6	4.7	
U402 (on	main board)		57.7	8	4.7	
PCB near	U401 (on main b	oard)	54.9	8	4.7	
PCB near	D801(on main bo	oard)	69.9	8	4.7	
L801 body	y (on main board)		67.2	8	4.7	
Plastic en	closure inside		44.1			
Plastic en	closure outside		38.4	3'	9.7	
Metal			45.6	4	9.7	
panel			43.9	7	4.7	
Ambient			19.7			
Tested or	n 23 inch models	s with panel LTM230H ⁻	T**-***, main board 715G5	881, HDMI mode		
DC inlet C	N701(on main bo	oard)	40.3	4	8.1	
PCB near	U101 body (on m	nain board)	48.0	8	3.1	
L701 (on r	main board)		67.2	8	83.1	
C747 (on	main board)		54.5	6	63.1	
U403 (on	main board)		58.8	8	3.1	
PCB near	U401 (on main b	oard)	55.0	8	83.1	
PCB near	D8101(on main l	board)	67.1	8	3.1	
L8101 boo	dy (on main board	(k	63.6	8	3.1	
Plastic en	closure inside		45.8			
Plastic en	closure outside		37.0	3	8.1	
Metal			43.2	4	8.1	
panel			45.2	7	3.1	

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Clause	Requirement + Test	Result	- Remark Verdict
C747 (on	main board)	43.3	60.4
U403 (on	main board)	57.9	80.4
PCB near	U401 (on main board)	54.5	80.4
PCB near	D8101(on main board)	52.1	80.4
L8101 bo	dy (on main board)	57.6	80.4
Plastic en	closure inside	35.2	
Plastic en	closure outside	25.7	35.4
Metal		38.6	45.4
panel		30.9	70.4
Ambient		15.4	
Tested or	n 24 inch model with panel M2	40HW**, main board 715G588	81, HDMI mode
DC inlet C	CN701(on main board)	32.4	46.2
PCB near	U101 body (on main board)	56.7	81.2
L701 (on	main board)	54.1	81.2
C747 (on	main board)	45.9	61.2
U403 (on	main board)	57.9	81.2
PCB near	· U401 (on main board)	55.2	81.2
PCB near	D8101(on main board)	53.9	81.2
L8101 bo	dy (on main board)	59.6	81.2
Plastic en	closure inside	35.2	
Plastic en	closure outside	25.7	36.2
Metal		38.4	46.2
panel		33.1	71.2
Ambient		16.2	
Tested or	n 21.5 inch models with panel	LM215WF*-****, main board 7	715G5881, HDMI mode
DC inlet C	CN701(on main board)	38.6	48.2
PCB near	· U101 body (on main board)	56.1	83.2
L701 (on	main board)	48.3	83.2
C747 (on	main board)	57.9	63.2
U403 (on	main board)	59.1	83.2
PCB near	· U401 (on main board)	55.1	83.2
PCB near	D8101(on main board)	52.1	83.2
L8101 bo	dy (on main board)	57.1	83.2
Plastic en	closure inside	36.4	
Plastic en	closure outside	29.7	38.2
Metal		38.6	48.2

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Clause	Requirement + Test	Re	sult - Remark	Verdict	
panel		30.9		73.2	
Ambient		18.2			
Tested or	n 23.8 inch models with panel L	M238WF*, main board 71	5G6329, HDMI mode		
DC inlet b	ody CN701 (on main board)	36.0		53.7	
PCB near	U101 body (on main board)	45.0		83.7	
L701 (on i	main board)	47.0		83.7	
C729 (on	main board)	47.7		68.7	
PCB near	U701 (on main board)	49.2		83.7	
PCB near	U401 (on main board)	42.4	,	83.7	
PCB near	D701 (on main board)	50.9		83.7	
L8101 boo	dy (on main board)	53.0		83.7	
Plastic en	closure inside	32.7			
Plastic en	closure outside	27.2		43.7	
Metal		39.2		48.7	
panel		37.0		73.7	
Ambient		23.7			
Tested or	n 23.8 inch models with panel L	.M238WF*, main board 71	5G6295, HDMI mode		
DC inlet b	ody CN701 (on main board)	37.3		52.5	
PCB near	U101 body (on main board)	49.4		82.5	
L701 (on i	main board)	50.7		82.5	
C729 (on	main board)	48.1		67.5	
PCB near	U701 (on USB board)	51.7		82.5	
PCB near	U401(on main board)	45.9		82.5	
PCB near	D701(on main board)	53.0		82.5	
L8101 boo	dy (on main board)	56.7		82.5	
Plastic en	closure inside	35.1			
Plastic en	closure outside	30.2		42.5	
Metal		39.2		47.5	
panel		37.7		72.5	
Ambient		22.5			

Note(s):

- The temperatures were measured under worst-case normal mode defined in 1.2.2.1 and as described in sub-clause 1.6.2 (see table 1.6.2.) and at voltages as described in sub-clause 1.4.5.

- With maximum ambient temperature declared at 40°C, and the minimum ambient temperature during all tests is T am, the max. Temperature is calculated as follows:

Tmax= Tmax of component declared - 40 + Tamb

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5.3	ТА	TABLE: Fault condition tests							
	Am	bient tem	perature (°C)			Se	e below		
			e for EUT: Manu output rating						_
Compone No.	ent	Fault	Supply vol- tage (V)	Test time	Fuse	#	Fuse current (A)	Obser	vation
Tested wit	h ma	in board 7	715G5276						
D701		S-C	12.04	10min			0.01	Unit shut dov recoverable,	,
C718		S-C	12.04	10min			0.01	Unit shut dov recoverable,	
D801		S-C	12.04	10min			0.02	Normal work hazards	ing , no
U403 8-2		S-C	12.04	10min			0.02	Unit shut dov recoverable,	,
U102 8-1		S-C	12.04	10min			0.02	Unit shut down, recoverable, no hazard	
Tested wit	h ma	in board i	715G5881						
D703		S-C	11.97	10min			0.01	Unit shut dov recoverable,	
C747		S-C	11.97	10min			0.01	Unit shut dov recoverable,	
D704		S-C	11.97	10min			0.02	Normal work hazards	ing , no
Q301 5-3		S-C	11.97	10min			0.02	Unit shut dov recoverable,	
U505 8-2		S-C	11.97	10min			0.02	Unit shut dov recoverable,	
Tested wit	h ma	in board i	715G6295						
D701		S-C	18.87	10min			0.01	Unit shut dov recoverable,	
L701		S-C	18.87	10min			0.01	Unit shut dov recoverable,	
C729		S-C	18.87	10min			0.02	Normal work hazards	ing , no
C661		S-C	18.87	10min			0.02	Unit shut dov recoverable,	
D8101		S-C	18.87	10min			0.02	Unit shut dov recoverable,	

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Clause	Requirement	+ Test			Result - Rema	ark	Verdict	
C8110	S-C	18.87	10min		0.02	Normal workin hazards	g , no	
L8101	S-C	18.87	10min		0.02	Normal workin hazards	g , no	
Tested wit	h main board	715G6329						
D701	S-C	18.87	10min		0.01	Unit shut dowr recoverable, n	,	
L701	S-C	18.87	10min		0.01	Unit shut dowr recoverable, n	,	
C729	S-C	18.87	10min		0.02	Normal workin hazards	g , no	
C661	S-C	18.87	10min		0.02	Unit shut dowr recoverable, n		
D8101	S-C	18.87	10min		0.02	Unit shut dowr recoverable, n		
C8110	S-C	18.87	10min		0.02	Unit shut dowr recoverable, n	,	
L8101	S-C	18.87	10min		0.02	Unit shut dowr recoverable, n		

IEC60950_1C - 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		
Attachment Form No	EU_GD_IEC60950_1C_II		
Attachment Originator	SGS Fimko Ltd		
Master Attachment	Date 2011-08		
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EN 60950-1:2006/A11:2009/A1:2010/A12:2011 – CENELEC COMMON MODIFICATIONS

	IEC 60950-1, GROU	IP DIFFEREI	NCES (CENEL	EC commo	n modifications EN)	
Contents	Add the following Annex ZA (norma		Normative r	eferences to	international	Р
			publications	;	prresponding European	
	Annex ZB (norma	tive)	Special nati	onal conditio	ns	
General	Delete all the "cou according to the fo		n the reference	document (I	EC 60950-1:2005)	Р
	1.4.8 Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	
	1.5.8 Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	
	2.2.3 Note				Note	
	2.3.2.1 Note 2			2.6.3.3		
	2.7.1 Note	2.10.3.2	Note 2	2.10.5.13	Note 3	
	3.2.1.1 Note	3.2.4	Note 3.	2.5.1	Note 2	
	4.3.6 Note 1 & 2			4.7.2.2		
	4.7.3.1Note 2			5.3.7		
		6.1.2.1	Note 2	6.1.2.2	Note	
	6.2.2 Note	6.2.2.1	Note 2	6.2.2.2	Note	
	7.1 Note 3	7.2	Note	7.3	Note 1 & 2	
	G.2.1 Note 2	Annex H	Note 2			
General	Delete all the "cou				EC 60950-	Р
(A1:2010)	1:2005/A1:2010) a	according to t	the following lis	st:		
	1.5.7.1 Note	e de la companya de l	6.1.2.1	Note 2		
	6.2.2.1 Note	2	EE.3	Note		

	IEC60950_1C - ATTACHM	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
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	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		N/A
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
	Zx Protection against excessive sound pre-	ssure from personal music	N/A

	IEC60950_1C - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict	
Clause	Zx.1 General This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players. 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	Result - Remark	Verdict N/A	
	 primarily uses headphones or earphones that can be worn in or on or around the ears; and 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_1C - ATTACHMI	ENT	
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		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 LAeq,T 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 $L_{Aeq,T}$ 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_1C - ATTACHM	ENT	
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. 		N/A
	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 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 $L_{Aeq,T}$) 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_1C - ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdic
	Zx.3 Warning The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: - the symbol of Figure 1 with a minimum height of 5 mm; and - the following wording, or similar: "To prevent possible hearing damage, do not listen at high volume levels for long periods." Figure 1 – Warning label (IEC 60417-6044) Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.		N/A
	Zx.4 Requirements for listening devices (headp	phones 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. 		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Zx.4.2 Wired listening devices with digital input		N/A
	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 $L_{Aeq,T}$ of the listening device shall be \leq 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 a USB headphone.		
	Zx.4.3 Wireless listening devices		N/A
	In wireless mode:		
	 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		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_1C - ATTACHM	ENT	
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):	Replaced.	N/A
	 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 and the equipment and the equipment. 		
	to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short- circuit and earth fault protection may be provided by protective devices in the building installation;		
	 c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet. 		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.		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 0ver 6 up to and including 10 (0,75)0ver 10 up to and including 16 (1,0)conditions applicable to Table 3B delete		N/A
	the words "in some countries" in condition ^{a)} . In NOTE 1, applicable to Table 3B, delete the second sentence.		

Clause Requirement + Test Result - Remark 3.3.4 In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following: Over 10 up to and including 16 1,5 to 2,5 1,5 to 4 Delete the fifth line: conductor sizes for 13 to 16 A 4.3.13.6 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). 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.	
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 Over 10 up to and including 16 1,5 to 2,5 1,5 to 4 Delete the fifth line: conductor sizes for 13 to 16 A 4.3.13.6 Replace the existing NOTE by the following: (A1:2010) 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). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC. 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).	Verdict
4 Delete the fifth line: conductor sizes for 13 to 16 A. A 4.3.13.6 Replace the existing NOTE by the following: (A1:2010) 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). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC. 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).	N/A
A 4.3.13.6 Replace the existing NOTE by the following: (A1:2010) 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). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC. 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).	
 (A1:2010) 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). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC. 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). 	
Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC. 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).	N/A
At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 μ Sv/h (0,1 mR/h) (see NOTE).	N/A
Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom.	N/A
Delete NOTE 2. Bibliography Additional EN standards.	

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH	
	THEIR CORRESPONDING EUROPEAN PUBLICATIONS	

	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)		
Clause	Requirement + Test	Result - Remark	Verdict
1.2.4.1	In Denmark , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.		N/A
1.2.13.14	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.		N/A

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	IEC60950_1C - ATTACHMENT		
Clause	Requirement + Test	Result - Remark	Verdict
1.5.7.1	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.		N/A
1.5.8	In Norway , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).		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

	IEC60950_1C - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdic	
1.7.2.1	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 no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system.		N/A	
	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)."			

	IEC60950_1C - ATTACHMENT		
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 för 		
1.7.5	kabel-TV nätet." 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.		N/A
2.2.4	For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a. In Norway , for requirements see 1.7.2.1, 6.1.2.1		N/A
2.3.2	and 6.1.2.2 of this annex. 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
2.3.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		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.		N/A

	IEC60950_1C - ATTACHN	IENT	
Clause	Requirement + Test	Result - Remark	Verdict
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 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 23, L+N+PE 250 V		N/A
3.2.1.1	In Denmark , supply cords of single-phase equipment having a rated current not exceeding13 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-D or EN 60309-2.		N/A

	IEC60950_1C - ATTACHME	=N I	
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.		N/A
	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 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.		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.		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 mm ² is allowed for equipment with a rated current over 10 A and up to and including 13 A.		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 mm ² to 1,5 mm ² nominal cross-sectional area.		N/A

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	IEC60950_1C - ATTACHMENT			
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.		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.		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.		N/A	

Clause	Requirement + Test	Result - Remark	Verdic
Clause	Requirement + rest	Result - Remark	verdic
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		N/A
	- 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 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).		N/A
	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 sequence of tests as described in EN 60384-14.		

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	IEC60950_1C - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict	
6.1.2.2	In Finland , Norway and Sweden , the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.		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.		N/A	
7.3	In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.		N/A	
7.3	In Norway , for installation conditions see EN 60728-11:2005.		N/A	

		IEC60950_1C - ATTACHME	INT	
Clause	Requirement + Test		Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60950-1 CANADA NATIONAL DIFFERENCES Information technology equipment – Safety –	
	Part 1: General requirements
Differences according to	CAN/CSA-C22.2 NO. 60950-1A-07
Attachment Form No	CA_ND_IEC60950_1C
Attachment Originator	TÜV SÜD Product Service GmbH
Master Attachment	Date (2012-08)
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	Special national conditions		
1.1.1	All equipment is to be designed to allow installation in accordance with the National Electrical Code (NEC), ANSI/NFPA 70, the Canadian Electrical Code (CEC), Part I, CAN/CSA C22.1, and when applicable, the National Electrical Safety Code, IEEE C2. Also, unless marked or otherwise identified, installation is allowed per the Standard for the Protection of Electronic Computer/Data-Processing Equipment, ANSI/NFPA 75.		N/A
1.4.14	For Pluggable Equipment Type A, the protection in the installation is assumed to be 20A.		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 CEC/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 CEC 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.		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
	A voltage rating is not be lower than the specified "Normal Operating Conditions," unless it is part of a range that extends into the "Normal Operating Conditions."		N/A

IEC60950_1C - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
1.7.7	Wiring terminals intended to supply Class 2 outputs in accordance with 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.		N/A	
2.6.3.3	Modify first column on Table 2D to "Smaller of the RATED CURRENT of the equipment or the PROTECTIVE CURRENT RATING of the circuit under consideration."		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.		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.		N/A	
3.2.5	Power supply cords are no longer than 4.5 m in length.	No power supply cord provided.	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 have a suitable wiring compartment and wire bending space.		N/A	

IEC60950_1C - ATTACHMENT				
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 permitted to attach conductors larger than 10 AWG (5.3 mm ²).	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		N/A	
	- rated 125 percent 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."	Considered.	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	Equipment with lasers meet the Canadian Radiation Emitting Devices Act, REDR C1370 and/or Code of Federal Regulations 21 CFR 1040, as applicable.		N/A	
4.7	For computer room applications, automated information storage systems with combustible media greater than 0.76 m ³ (27 cu ft) have a provision for connection of either automatic sprinklers or a gaseous agent extinguishing system with an extended discharge.		N/A	
4.7.3.1	For computer room applications, enclosures with combustible material measuring greater than 0.9 m ² (10 sq ft) or a single dimension greater than 1.8 m (6 ft) 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_1C - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdic	
Annex H	Equipment that produces ionizing radiation comply with the Canadian Radiation Emitting Devices Act, REDR C1370 and/or Code of Federal Regulations, 21 CFR 1020, as applicable.	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.		Р	
1.6.1.2	A circuit for connection to the DC Mains Supply is classified as either a SELV Circuit, TNV-2 Circuit or Hazardous Voltage Circuit depending on the maximum operating voltage of the supply.	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 Vpeak 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.		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.		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.		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.		N/A	
4.3.2	Equipment with handles complies with special No handles.		N/A	
5.1.8.3	Equipment intended to receive telecommunication ringing signals comply with a special touch current measurement tests.		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.		Р	
	During abnormal operating testing, if a circuit is interrupted by the opening of a component, the test shall be repeated twice (three tests total) using new components as necessary		N/A	

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IEC60950_1C - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	
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.	Equipment is not such a device.	N/A	
M.2	Continuous ringing signals up to 16 mA only are permitted if the equipment is subjected to special installation and performance restrictions.	No 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_1C - 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			
Attachment Originator	SGS Fimko Ltd			
Master Attachment:	Date (2010-04)			
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	National Differences		
General 1.5.7.1	See also Group Differences (EN 60950-1:2006/A11/A1)		
	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_1C - 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 		N/A
6.1.2.1 (A1:2010)	 EQUIPMENT. 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 	No TNV.	N/A

	IEC60950_1C - 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 DISTRIBUTION SYSTEM.	Not connected to cable distribution system.	N/A	

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IEC60950_1C - 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.	

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IEC60950_1C - 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		N/A
	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	P
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	Р
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_1C - ATTACHMENT			
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; 		N/A	
	 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 = I∆); 7) Reinforced insulation; Double insulation (class II) 			
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. 		N/A	
	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.			
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	N/A	

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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

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Clause

Requirement + Test

IEC60950_1C - ATTACHMENT Result - Remark

Verdict

ATTACHMENT TO TEST REPORT IEC 60950-1 U.S.A. NATIONAL DIFFERENCES Information technology equipment – Safety –			
	Part 1: General requirements		
Differences according to:	UL 60950-1-07		
Attachment Form No	US_ND_IEC60950_1C		
Attachment Originator	TÜV SÜD Product Service GmbH		
Master Attachment:	Date (2012-08)		

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	Special national conditions		
1.1.1	All equipment is to be designed to allow installation in accordance with the National Electrical Code (NEC), ANSI/NFPA 70, the Canadian Electrical Code (CEC), Part I, CAN/CSA C22.1, and when applicable, the National Electrical Safety Code, IEEE C2.		N/A
	Also, unless marked or otherwise identified, installation is allowed per the Standard for the Protection of Electronic Computer/Data-Processing Equipment, ANSI/NFPA 75.		N/A
1.4.14	For Pluggable Equipment Type A, the protection in the installation is assumed to be 20A.		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 CEC/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 CEC 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.		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

Clause	Requirement + Test	Result - Remark	Verdict
			Verdie
	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 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.	Not operator-accessible.	N/A
2.6.3.3	Modify first column on Table 2D to "Smaller of the RATED CURRENT of the equipment or the PROTECTIVE CURRENT RATING of the circuit under consideration."		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 per cent 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.		N/A
3.2.5	Power supply cords are no longer than 4.5 m in length.		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

Clause	Clause Requirement + Test Result - Remark		
Clause	Requirement + rest	Result - Remark	Verdict
	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 have a suitable wiring compartment and wire bending space.		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 permitted to attach conductors larger than 10 AWG (5.3 mm ²).	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		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."		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	Equipment with lasers meet the Canadian Radiation Emitting Devices Act, REDR C1370 and/or Code of Federal Regulations 21 CFR 1040, as applicable.	No lasers.	N/A
4.7	For computer room applications, automated information storage systems with combustible media greater than 0.76 m ³ (27 cu ft) have a provision for connection of either automatic sprinklers or a gaseous agent extinguishing system with an extended discharge.	Not such an application.	N/A

	IEC60950_1C - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		
4.7.3.1	For computer room applications, enclosures with combustible material measuring greater than 0.9 m^2 (10 sq ft) or a single dimension greater than 1.8 m (6 ft) 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		
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		
1.6.1.2	A circuit for connection to the DC Mains Supply is classified as either a SELV Circuit, TNV-2 Circuit or Hazardous Voltage Circuit depending on the maximum operating voltage of the supply.	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 Vpeak 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		
2.6.3.4	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.		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		

	IEC60950_1C - ATTACHM	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
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.		Р
	During abnormal operating testing, if a circuit is interrupted by the opening of a component, the test shall be repeated twice (three tests total) using new components as necessary		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_1C - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60950-1 AUSTRALIA and NEW ZEALAND NATIONAL DIFFERENCES

Information technology equipment - Safety -

Part 1: General requirements

Differences according to.....: AS/NZS 60950.1:2011 and Amendment No. 1 To AS/NZS 60950.1:2011

1.2	Insert the following between 'person, service' and 'range, rated frequency': POTENTIAL IGNITION SOURCE		N/A
1.2.12.201	Insert a new Clause 1.2.12.201 after Clause 1.2.12.15 as follows: 1.2.12.201		N/A
	POTENTIAL IGNITION SOURCE		
	Possible fault which can start a fire if the open- circuit voltage measured across an interruption or faulty contact exceeds a value of 50 V (peak) a.c. or d.c. and the product of the peak value of this voltage and the measured r.m.s. current under normal operating conditions exceeds 15 VA.		
	Such a faulty contact or interruption in an electrical connection includes those which may occur in CONDUCTIVE PATTERNS on PRINTED BOARDS.		
	NOTE 201 An electronic protection circuit may be used to prevent such a fault from becoming a POTENTIAL IGNITION SOURCE.		
	NOTE 202 This definition is from AS/NZS 60065:2003.		
1.5.1	1. Add the following to the end of the first paragraph:	Added.	Р
	'or the relevant Australian/New Zealand Standard.'		
	2. In NOTE 1, add the following after the word 'standard':'or an Australian/New Zealand Standard'		
1.5.2	Add the following to the end of the first and third dash items:	Added.	Р
	'or the relevant Australian/New Zealand Standard'		

Clause		C60950_1C -		Result - Remark	Vardia
Clause	Requirement + Test			Result - Remark	Verdic
3.2.5.1	Modify Table 3B as follow 1. Delete the first four row following:		e with the	Replaced.	N/A
		Minimum con	ductor sizes		
	RATED CURRENT of equipment A	Nominal cross- sectional area mm ²	AWG or kcmil [cross- sectional area in		
			mm ²] see Note 2		
	Over 0.2 up to and including	0,5 ª	18 [0,8]		
	Over 3 up to and including 7.5	0,75	16 [1,3]		
	Over 7.5 up to and including 10	(0,75) ^ь 1,00	16 [1,3]		
	Over 10 up to and including 16	(1,0) ° 1,5	14 [2]		
	^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 mm ² thre cords are not permitted; s	ances if the le ured between uard, enters to the plug do ee-core supp	ength of the n the point the bes not ly flexible		
4.1.201	Insert a new Clause 4.1.2 follows: 4.1.201 Display devices purposes Display devices which ma purposes, with a mass of comply with the requirem	201 after Clau used for tel ay be used fo 7 kg or more	use 4.1 as evision or television e, shall	No such device.	N/A
	mechanical hazards, inclusive stability requirements for specified in AS/NZS 6006	uding the add television red	litional		
4.3.6	Delete the third paragraph following: Equipment with a plug po insertion into a 10 A 3-pir complying with AS/NZS 3 the requirements in AS/N	ortion, suitable flatpin socke 3112 shall col	e for et-outlet mply with		N/A
4.3.13.5.1	with integral pins for inserAdd the following to the e	rtion into soc	ket-outlets.	Added.	N/A
	paragraph: 'or AS/NZS 2211.1'				

Clause	Requirement + Test	Result - Remark	Verdic
Clause	Requirement + Test	Result - Remark	veruic
4.7	Add the following new paragraph to the end of the clause:		N/A
	'For alternate tests refer to Clause 4.7.201.'		
4.7.201	Insert a new Clause 4.7.201 after Clause 4.7.3.6 as follows:		N/A
	4.7.201 Resistance to fire – Alternative tests		
4.7.201.1	4.7.201.1 General		N/A
	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 mm ³ , integrated circuits, transistors and optocoupler packages, if these components are mounted on material of flammability category V-1, or better, according to AS/NZS 60695.11.10.		
	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 non- metallic material which have been removed from the apparatus. When the glow-wire test is carried out, the parts shall be placed in the same orientation as they would be in normal use.		
	These tests are not carried out on internal wiring.		

		IEC60950_1C - ATTACHMI		
Clause	Requirement + Test		Result - Remark	Verdict
4.7.201.2	-	on-metallic materials naterial shall be subject to		N/A
		S/NZS 60695.2.11 which		
	material, shall meet the ISO 9772 for category wire test shall be not c material classified at le	ose made of soft or foamy e requirements specified in FH-3 material. The glow- arried out on parts of east FH-3 according to ISO sample tested was not		
4.7.201.3	4.7.201.3 Testing of in	nsulating materials		N/A
	Parts of insulating mat POTENTIAL IGNITION subject to the glow-wir 60695.2.11 which shal	SOURCES shall be		
		carried out on other parts of ch are within a distance of n.		
	NOTE Contacts in compone considered to be connection	nts such as switch contacts are s.		
	produce a flame, other connection within the e cylinder having a diam of 50 mm shall be subj test. However, parts sh			
	The needle-flame test accordance with AS/N following modifications	ZS 60695.11.5 with the		
	Clause of AS/NZS 60695.11.5	Change		
	9 Test procedure			
	9.2 Application of needleflame	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		

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Clause	Requirement + Test		Result - Remark	Verdict
	11			
	9.3 Number of test specimens 11 Evaluation of test results	±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 gianute it		
4.7.201.4	parts of material classifi	0695.11.10, provided that not thicker than the		N/A
4.7.201.4	extinguishing material If parts, other than enclo the glow wire tests of 4. extinguish within 30 s at glowwire tip, the needle 4.7.201.3 shall be made metallic material which a 50 mm or which are like flame during the tests of by a separate barrier wh flame test need not be t NOTE 1 If the enclosure does the equipment is considered t requirements of Clause 4.7.20 consequential testing. NOTE 2 If other parts do not to ignition of the tissue paper or glowing particles can fall or underneath the equipment, th have failed to meet the require without the need for consequential NOTE 3 Parts likely to be imp considered to be those within cylinder having a radius of 10	bosures, do not withstand 7.201.3, by failure to fter the removal of the -flame test detailed in e on all parts of non- are within a distance of ly to be impinged upon by f 4.7.201.3. Parts shielded hich meets the needle- ested. In ont withstand the glow-wire test o have failed to meet the D1 without the need for withstand the glow-wire test due and if this indicates that burning nto an external surface e equipment is considered to ements of Clause 4.7.201 ential testing. inged upon by the flame are the envelope of a vertical mm and a height equal to the d above the point of the material		
4.7.201.5	4.7.201.5 Testing of pr The base material of pri subjected to the needle 4.7.201.3. The flame sh	nted boards shall be		N/A

	IEC60950_1C - ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict		
	of the board where the heat sink effect is lowest when the board is positioned as in normal use. The flame shall not be applied to an edge, consisting of broken perforations, unless the edge is less than 3 mm from a POTENTIAL IGNITION SOURCE. The test is not carried out if the —				
	 Printed board does not carry any POTENTIAL IGNITION SOURCE; Base material of printed boards, on which the available apparent power at a connection exceeds 15 VA operating at a voltage exceeding 50 V and equal or less than 400 V (peak) a.c. or d.c. under normal operating conditions, is of flammability category V-1 or better according to AS/NZS 60695.11.10, or the printed boards are protected by an enclosure meeting the flammability category V-0 according to AS/NZS 60695.11.10, or made of metal, having openings only for connecting wires which fill the openings completely; or 				
	- Base material of printed boards, on which the available apparatus power at a connection exceeds 15 VA operating at a voltage exceeding 400 V (peak) a.c. or d.c. under normal operating conditions, and base material of printed boards supporting spark gaps which provides protection against overvoltages, is of flammability category V-0 according to AS/NZS 60695.11.10 or the printed boards are contained in a metal enclosure, having openings only for connecting wires which fill the openings completely.				
	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		

	IEC60950_1C - ATTACHME		
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:	No TNV.	N/A
	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>i</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.		
	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.		
6.2.2.2	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:	Not connected to cable	N/A
	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.	distribution system.	
Annex P	Normative references		N/A
	(List of relevant Australia/New Zealand Standards that have been inserted in place of some of the International Standards)		

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Clause	Requirement + Test	Result - Remark	Verdict
(Deviation Special Na	-1 (H22) : 2009 TEST REPORT s from IEC 60950-1:2001, first edition) ational conditions, National deviation and other informa <u>unique deviations</u> in J60950-1(H22):2009(=JIS C 6950		nance No. 85.
1.1.A	Add this sub-clause See Annex P for normative references	Added.	N/A
1.2	Add the following terms. Equipment, Class 0I 1.2.4.3A	Added.	N/A
1.2.4.1	Add the following NOTE 2: NOTE 2 – Even in the case of CLASS 0I equipment, two-pins plug with a protective earthing lead wire (an adapter for converting a Class 0I equipment plug into a two-pin plug without earthing wire) and cord sets having a two-pin type plug with a lead wire for earthing are also regarded as Class 0I equipment if they are included in packaging as accessories or if users are recommended to use them.	Added.	N/A
1.2.4.3A	 Add this sub-clause: CLASS 0I EQUIPMENT: Equipment where protection against electric shock is achieved by: using BASIC INSULATION, and providing a means of connecting to the protective earthing conductor in the building wiring those conductive parts that are otherwise capable of assuming HAZARDOUS VOLTAGES if the BASIC INSULATION fails, and using a supply cord without earthing conductor and a plug without earthing wire although the equipment has externally an earth terminal or a lead wire for earthing. Equipment provided with a cord set having a two-pin type plug with a lead wire for earthing is also regarded as Class 0I. NOTE – Class 0I equipment may have a part constructed with Double Insulation or Reinforced Insulation as well as an operating part as SELV circuit. 	Added.	N/A

	IEC60950_1C - ATTACH	MENT	
Clause	Requirement + Test	Result - Remark	Verdict
1.3.2	 Add the following NOTE 1 and 2: Note1: transportable equipments or similar equipments that are frequently transported for use should not be considered Class I or Class 0I equipments. However, this shall not apply to equipments that are intended for installation by service personnel or installation personnel. Note 2: in consideration of the state of electrical power distribution in Japan, it is best to avoid the use of Class I or Class 0I devices if it is evident that it will be difficult to connect earthing during installation of the equipment. However, this shall not apply to devices that are intended for installation personnel. 	Added.	N/A
1.5.1	 When safety issues apply, in the absence of matters required by these specifications or JIS stipulated required matters concerning safety of related components, or in the absence of JIS concerning the component, the component must comply with one of the related IEC safety requirements. However, if a component compliant with ministerial ordinance (1962 Trade and Commerce Ministerial Ordinance No. 85) providing technical standards for electrical products is being used in accordance with the rating indicated for that component, apply articles 1.5.4, 2.8.7 and 3.2.5; electrical power cord sets that fit with inlets for equipments regulated by the IEC 60320-1 Standards Sheet must match the dimensions indicated on the applicable IEC 60320-1 Connector Standards Sheet. Note 1: regarding the JIS or IEC standards related to a component as related shall be limited to cases where the component in question is clearly within the scope of application of those standards. 		N/A

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0	IEC60950_1C - ATTACHI		
Clause	Requirement + Test	Result - Remark	Verdict
1.5.2	In the case of components that are certified as being in compliance with JIS harmonized with the related IEC, it must be confirmed that the component is being used correctly in accordance with the stipulated standards. In the absence of JIS harmonized with the related IEC,		N/A
	Note 1: When using an IEC 60320-1 C.14 device coupler with rated voltage less than 125 V and rated current in excess of 10A, refer to 1.7.5A.		
	If JIS harmonized with the IEC related to the component does not exist concurrently with the IEC standards, or if the component is using circuitry that does not comply with its rating, the component must be tested in accordance with the conditions and within equipment. The number of samples required for testing shall normally be the same as the number required under similar standards.		
1.5.6	Replace "IEC 60384-14:1993" to "JIS C 5101- 14:1998 or IEC 60384-14:1993" of this Sub- Clause	Replaced.	N/A
1.5.7.2	Replace "IEC 60384-14:1993" to "JIS C 5101- 14:1998 or IEC 60384-14:1993" of this Sub- Clause	Replaced.	N/A
1.5.8	Replace "IEC 60384-14:1993" to "JIS C 5101- 14:1998 or IEC 60384-14:1993" of this Sub- Clause	Replaced.	N/A
1.7.1	Add local importer in this sub-clause manufacturer's name or local importer or trade- mark or identification mark;	Added.	N/A
1.7.5	Replace "IEC 60083" to "IEC/TR 60083:1997 or JIS C 8303:2007" of this Sub-Clause	Replaced.	N/A
1.7.5.A	Add this sub-clause 1.7.5A Device Coupler When using an IEC 60320-1 C.14 device coupler (rated current 10A) with rated voltage less than 125 V and rated current in excess of 10A, be sure to write "Only use power supply cord sets that are provided with this device" or a similar statement in the user's manual.	Added.	N/A

	IEC60950_1C - ATTACH	MENT	
Clause	Requirement + Test	Result - Remark	Verdict
1.7.17A	Add this sub-clause:		N/A
	Marking for CLASS 0I EQUIPMENT		
	For CLASS 0I EQUIPMENT, the following instruction shall be indicated on the visible place of the mains plug or the main body: "Provide an earthing connection"		
	Example in Japanese:		
	必ず接地接続を行って下さい		
	Moreover, for CLASS 0I EQUIPMENT, the following instruction shall be indicated on the visible place of the main body or written in the operating instructions: "Provide an earthing connection before the mains		
	plug is connected to the mains. And, when disconnecting the earthing connection, be sure to disconnect after pulling out the mains plug from the mains."		
	Example in Japanese: 接地接続は必ず、電源プラグを電源につなぐ 前に行って下さい。又、接地接続を外す場合 は、必ず電源プラグを電源から切り離してか ら行って下さい。		
2.1.1.1	In the Item b) of this Sub-Clause, replace "IEC 60083" to "IEC 60083 or JIS C 8303:2007".	Replaced.	N/A
2.6.3.2	Add the following in front of 1 st paragraph of this Sub-Clause.	Added.	N/A
	This also applies to the conductor of lead wire for protective earthing of CLASS 0I EQUIPMENT.		
2.6.3.4	Add the following in this Sub-Clause. (See 2.6.3.3)	Added.	N/A
2.6.4.2	Add the following after 1 st paragraph of this Sub- Clause.	Added.	N/A
	However, this shall not apply when the Class 0I equipment is equipped with a separate main protective earthing terminal.		
2.6.5.4	Replace the first sentence of this Sub-Clause by: Protective earthing connections of CLASS I EQUIPMENT shall make earlier and break later than the supply connections in each of the following:	Replaced.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.6.5.8A	Add this sub-clause:	Added.	N/A
	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 where easily visible.		
2.10.1	Replace "IEC 60664-1" to "JIS C 0664:2003" in NOTE of this Sub-Clause	Replaced.	N/A
2.10.3.1	Replace "IEC 60664-1" to "JIS C 0664:2003" in NOTE 1 and NOTE 2	Replaced.	N/A
2.10.3.2	Replace "IEC 60664-1" to "JIS C 0664:2003" in the first sentence of this Sub-Clause	Replaced.	N/A
3.2.3	Add the following after Table 3A of this Sub- Clause. Table 3A shall apply when a JIS C 3662 or JIS C 3663 compliant cable is used. Other cables that are used must be designed to allow suitable conduits to be run in,	Added.	N/A
3.2.5.1	 Add the following of this Sub-Clause. Or must be sheathed in accordance with Section 1, Annex 1 of the ministerial ordinance (1962) Trade and Commerce Ministerial Ordinance No. 85) providing technical standards for electrical products. Or must be sheathed in accordance with Section 1, Annex 1 of the ministerial ordinance (1962) Trade and Commerce Ministerial ordinance (1962) Trade and Commerce	Deleted.	N/A
3.3.4	Add the following in Table 3D Note: when using JIS C 3662 or JIS C 3663- compliant electrical wiring, the terminal must enable connection of electric wiring commensurate with the regulated sizes	Added.	N/A

	IEC60950_1C - ATTACH	MENT		
Clause	Requirement + Test	Result - Remark	Verdict	
3.3.7	Add the following after 1 st paragraph of this Sub- Clause However, this shall not apply to the external grounding terminals of Class 0I equipment.	Added.	N/A	
4.3.4	Add the following of this Sub-Clause. Class 0I equipment where the values for creepage distance and clearance distance of the basic insulation drop further to a level lower than that stipulated in 2.10 must be properly fixed to withstand the mechanical stress generated in the course of normal use.	Added.	N/A	
4.3.5	Replace "IEC 60083" to "JIS C 8303:2007" in the first sentence of this Sub-Clause	Replaced.	N/A	
4.3.13.3	Add the following in Table 4A Note: JIS K 7161:1994, JIS K 7162:1994, IS K 7127:1999 are available as JIS compatible with part of ISO527.	Added.	N/A	
43.13.5	Replace "IEC 60825-1" to "JIS C 6802:2005 or JIS C of this Sub-Clause	Replaced.	N/A	
	Replace "IEC 60825-2:2000" to "JIS C 6803:2006 or IEC 60825-2:2000" of this Sub- Clause	Replaced.	N/A	
4.5.1 Add the following to Suffix 3) of Table 4B (part one and part two). Note: When data concerning materials is unavailable, Annex 4, 1 (1) 3 of "Regarding Interpretation of Ministerial Ordinance Providing Technical Standards for Electrical Products" (June 19, 2008 Bureau of Commerce No. 3) may be applied to Item 1.		Added.	N/A	

Attachment

The insulating materials shall not be exposed to the temperature exceeding the values when the appliance is operated at rated voltage and normal operating condition.

These values may be increased by;

8 degrees for Duty 2 appliance, and

16 degrees for Duty 3 appliance.

In order to classify the appliances, following assumptions are to be used.

Duty 1 appliances: considered to be connected to supply mains throughout the years such as refrigerators

Duty 2 appliances: considered to be connected to be in between Duty 1 and Duty 3 such as room heaters

Duty 3 appliances: considered to be connected to supply mains when it is operated for rather short time such as portable coffee mill.

Permissible temperature limits of insulating materials

Natural materials				
Material	Permissible temperature limit (°C)			
Bituminous compound for filter	75, (105) 1)			
Paper, cotton, silk, other natural fiber and wood	90, (105) 2)			
Oil denatured natural resin	105			

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Clause	Requirement + Test		Result - Remark	Verdict

Silica powder	500
Mica (Hard)	500, (600) 3)
(Soft)	650, (850) 3)

Notes: 1) Value applies to thermal insulating materials.

2) Value applies to materials impregnated with varnish.

3) Value in parenthesis is applied when mechanical external force is absent.

Mica splittings and untreated mica papers

Lining	Adhesive			Permissible Temperature Limit (°C)				
	а	b	с	d	е	f	g	
None	Х	Х	Х	Х				130
					Х			155
						Х		180; 450, (700) ¹⁾ ;
						Х		600, (800) ²⁾
							Х	600, (700) ¹⁾ ; 700, (850) ²⁾
Paper	Х	Х	Х	Х				130
Polyethylene terephtalate film				Х				130
Glass fabric				Х				130
					х			155
						Х		180
Polyester nonwoven fabric,				Х				130
Polyester woven, and					х			155
Polyethylene naphthalate film								
Polyamide-imide film,						Х		155
Aramide film, and							Х	180
Polymide film								

a: with asphalt base

b: with natural resin or denatured natural resin base

c: with ceramic base

d: with oil-denatured synthetic resin, alkyd orthophatalate resin or cross-linked polyester base.

e: with silicon-denatured synthetic resin, isophatalate alkyd resin, telephatalate alkyd resin or epoxy resin.

f: with silicon resin.

g: inorganic

Notes: 1) value applies to hard mica-made heating substrate.

2) value applies to soft mica-made heating substrate.

Remarks: value in parenthesis is applied when mechanical external force is absent.

Organic materials (Thermosetting Resins)

Material	Permissible temperature limit (°C)
laminated melamine resin mixed with glass fiber	75, (100) ¹⁾
moulded lemaine resin mixed with:	
cellulose	120
inorganics	140
laminated phenol resin with:	
cotton fiber base	115, (85) ²⁾ 120, (70) ³⁾
paper base	120, (70) ³⁾

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		- ATTACHMENT	
Clause	Requirement + Test	Result - Remark	Verdi
polyamide clo	th base	75 140	
moulded phen	nol resin with:	150, (160) ¹⁾	
inorganics others		140, (150) ¹	
moulded mela	amine phenol resin with the gravity of less than 1.55	130	
moulded urea	resin mixed with cellulose	90	
unsaturated p	olyester-casting	120	
laminated uns	aturated polyester mixed with inorganics	140	
moulded unsa other than org inorganic pow glass fiber		120 140 155	
epoxy resin-ca	asting	120	
laminated epoxy resin mixed with: inorganic other than inorganics		130, (140) ¹⁾ 110, (90) ³⁾ 130	
	y resin mixed with inorganics	140	
	/I phthalate resin mixed with: rganics	130 150 155	
xylene resin-c	asting	140	
polyamide-imi	de film	180	
laminated silic	cone resin mixed with inorganics	180, (220) ¹⁾	
moulded silico	on resins mixed with inorganics	180, (240) ⁴⁾	
polymide film		210	
laminated poly	ymide	190	
polybutadiene	e-casting	120	
moulded polyt	butadiene mixed with inorganics	130	
laminated dipl	heny oxide mixed with inorganics	180	

Notes: 1) Values apply to thermal insulating materials.

2) Values apply to materials with a thickness less than 0.8 mm.

3) Values apply to materials with a thickness less than 0.8 mm when treated to retard flame.

4) Values apply to materials used for thermal insulation and to seal outlets of sheathed heating wires.

Organic materials (Thermoplastic Resins)

Material	Permissible temperature limit (°C)
methacrylic resin, cellulose resin, cellulose acetate butylate resin, ulcanise, polyethylene	50
foamed polyethylene compound for insulated conductors, polyvinyl chloride	60
polyethylene compound for insulated conductors, heat-resistant polyvinyl chloride, cross-linked polyvinyl chloride compound for insulated conductors	75
cross-linked polyethylene, chlorinated polyethylene compound for insulated conductors	90
acrylonitrile acrylic rubber styrene resin, acrylontirile chlorinate polyethylene styrene	55

	IEC60950_1C - ATTACHMEI	NT	
Clause	Requirement + Test	Result - Remark	Verdict
resin			
acrylonitrile styre	ene resin, acrylonitrile butadiene resin,		
acrylonitrile buta	diene chlorinated polyethylene resin		
	: general	55	
	: reinforced with glass fiber	80	
polypropylene	: general	105, (85) ³⁾	
	: reinforced with glass fiber	110	
denatured polyp	henyle oxide : general	75	
	: reinforced with glass fiber	100	
Polystyrene		50, (70) ¹⁾	
polyacetal	: general	100	
	: reinforced with glass fiber	120	
polyamide	: general	90	
	: reinforced with glass fiber	120	
polycarbonate	: general	110	
	: reinforced with glass fiber	120	
polyethylene tere	ephtalate : general	120	
	: reinforced with glass fiber	130	
polybutylene tere	ephtalate : general	120	
	: reinforced with glass fiber	135	
heat resistant po	lyethylene terephthalate film	135	
polychlorotrifluor	inylidene compound for insulated conductors, oethylene (ethylene-trifluoride resin), ethylene-tetrafleorethylene insulated conductors	150	
tetrafluoroethyle	ne hexafluoropropylene resin	200	
polytetrafluoroet conductors	hylene(ethylene-tetrafluoride), perflouroalkoxy compound for insula	ted 250	
aramide(aromati	c polyamide paper)	220	
Polysulfone		140, (150) ²⁾	
polyethylene nap	ohthalate	155	
polyallylate	: general	120	
	: reinforced with glass fiber	130	

Notes : 1) Values apply to capacitor dielectrics.

2) Values apply to thermal insulating material

3) Values apply to materials with a thickness of less than 0.8 mm

4) Inorganic materials

Inorganic materials	
Material	Permission temperature limit (°C)
glass fiber (only alkaline free)	300
lead glass	380
borosilicate glass	490
quartz glass	800
ceramic	800, (1000) ¹⁾

Note: 1) Value apply to materials used as electric heating elements

IEC60950_1C - ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

Material	Permission temperature limit (°C)
natural rubber, polyurethane rubber, ebonite	60
nitrile rubber, styrene butadiene rubber, chloroprene rubber	75
butyl rubber	80
ethylene propylene (diene) rubber, chlorosulfonated polyethylene rubber	90
silicone rubber	180, (200) ¹⁾

Note : 1) Value apply to thermal insulating material and sealing compounds for sheathed heating elements.

Sleeves, Cloth, Tapes and like

Material	Impergnat or coating	Permission temperature limit (°C)
rayon, cellulose acetate, vinylon	adhesive, oil varnish	105
paper, cotton fabric, silk fabric, polyamide, polyester fabric, polyester nonwoven fabric	oil varnish	105
polyester fabric, polyester nonwoven fabric	alkyd resin varnish	120
glass fabric	(ditto)	130
paper	Iso or terephtalate alkyd resin varnish, epoxy resin varnish, alkyd resin varnish	105
polyester fabric, polyester nonwoven fabric	(ditto)	120
glass fabric, aramide paper	Iso or terephtalate, alkyd resin varnish, epoxy resin varnish silicone resin varnish, silicone rubber	155
vulcanised fiber		105
heat resistant fiber		120

5.1.3	Add the following NOTE Note: Note that domestic distribution systems have connections, in which cas performed using IEC 6099 circuitry.	many delta e tests should be	Added.		N/A	
5.1.6 Table 5A				N/A		
	Type of equipment	Terminal A of measuring instrument connected to: Accessible parts and circuits not connected to protective earth	Maximum TOUCH CURRENT mA r.m.s. ¹⁾ 0,25	Maximu PROTECT CONDUCTOR C -	IVE	-

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	IEC	60950_1C - ATTACH	MENT		
Clause	Requirement + Test		Result - Rema	ark	Verdic
	HAND-HELD MOVABLE (other than HAND- HELD, but including TRANSPORTABLE	Equipment main	0,75	-	
	EQUIPMENT STATIONARY, PLUGGABLE TYPE A	terminal (if any) CLASS I EQUIPMENT	3,5	-	
	ALL other STATIONARY EQUIPMENT not subject to the conditions of 5.1.7 - subject to the conditions of 5.1.7		3,5	- 5 % of input cur	rrent
	HAND-HELD	Equipment main	0,5	-	
	Others	protective earthing terminal	1,0	-	
		(if any) CLASS 0I EQUIPMENT			
	¹⁾ If peak values of TOUCH-CUF r.m.s. values by 1,414.	RENT are measured, the n	naximum values obta	ained by multiplying the	he
6	Add the following after NOT Clause. Refer to the accompanying details concerning appropria measures,	document, JB, for	Added.		N/A
	Replace "IEC 60664-1" to "	JIS C 0664 in note 4	Replaced.		N/A
7	Replace "IEC 60664-1" to ", this NOTE 3	JIS C 0664:2003 of	Replaced.		N/A
7.2	 Add the following However, when all of the forsatisfied, the separation reconstruction (6.2.1 a), b) and c) shall not cable distribution system. the applicable circuit is the applicable circuit's or grounding side is connected by and circuits (SELV circuit) 	uirement and test in be applied to the a TNV-1 circuit. common side or ected to the coaxial all accessible parts	Added.		N/A
	 parts, and limited current applicable if they exist) the external conductor of intended to be connected wire used for building wire 	nt circuits also of the coaxial cable is ed to the grounding			
Annex G 2.1	Replace "IEC 60664-1" to ",	JIS C 0664:2003"	Replaced.		N/A
Annex G 6	Replace "IEC 60664-1" to ".	JIS C 0664:2003"	Replaced.		N/A
Annex N	Add Note Note: ITU-T Recommendati been abolished and replace Recommendation K.44:200	ed with ITU-T	Added.		N/A

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	IEC60950_1C - ATTACHN	MENT	
Clause	Requirement + Test	Result - Remark	Verdic
	Note: The ITU-T Recommendation K.21:1996 test circuit was replaced with K.44:2003 in July 2003.		N/A
Annex P	Add the following terms. <u>JIS C 5101-14:1998 Fixed capacitors for use in</u> <u>electronic equipment Part 14: Type-specific</u> <u>standards: Fixed capacitors for electromagnetic</u> <u>interference suppression in electrical power</u> <u>supply</u> Fixed capacitors for use in electronic equipment - Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	Added.	N/A
	Replace "IEC 60065:1998" to "IEC 60065:2001"	Replaced.	N/A
	Add the following terms. JIS C 6802:2005	Added.	N/A
	Add the following terms. JIS C 6803:2006 2004.	Added.	N/A
	Add the following terms. JIS C 8303:2007	Added.	N/A
	Add the following terms. JIS S 0101:2000	Added.	N/A
	Add the following terms. ITU-T Recommendation K.44 :2003, Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents—Basic Recommendation.	Added.	N/A
	Add the following terms. ITU-T Recommendation K.45 :2003, Resistibility of telecommunication equipment installed in the access and trunk networks to overvoltages and overcurrents.	Added.	N/A
Annex Q	Add the following terms. ITU-T Recommendation K.66:2004, Protection of customer premises from overvoltages.	Added.	N/A
Annex T	Replace "IEC 60529:1989" to "JIS C 0920:2003	Replaced.	N/A
Annex W.1	Add following. Equipment, Class 0I	Added.	N/A

	IEC60950_1C - ATTACHN		
Clause	Requirement + Test	Result - Remark	Verdict
Annex JA	Add Annex JA (Document shredding machines) Document shredding machines shall also comply with the requirements of this annex except those of STATIONARY EQUIPMENT used by connecting directly to an AC MAINS SUPPLY of three-phase 200V or more.	Added. Not Document shredding machines.	N/A
JA.1	Markings and instructions In the easily visible part near the document- slot, by a method capable to make out clearly and not easily disappeared, and by easily understandable wording, shall indicate the symbol of;	Added. Not Document shredding machines.	N/A
	 and, also the following precautions for use; that use by an infant/child 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 clothes 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; that hairs 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 Any safety interlock which can be operated by means of the test finger, Figure JA.1, is considered to cause reactivation of the hazard. Compliance is checked by inspection and, where necessary, by a test with the test finger, Figure JA.1.	Added. Not Document shredding machines.	N/A



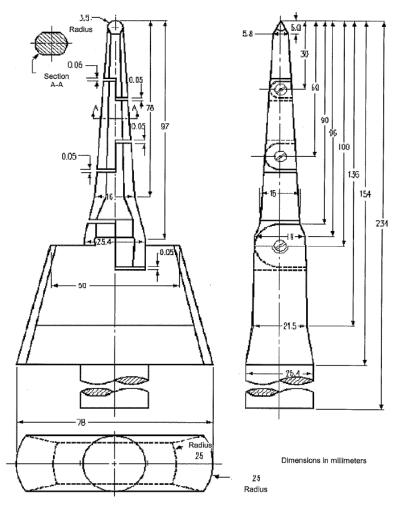
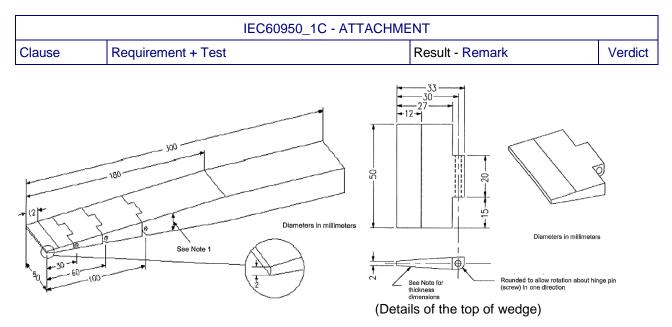


Figure JA.1 Test finger

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	IEC60950_1C - ATTACHMENT					
Clause	Requirement + Test	Result - Remark	Verdic			
JA.3	Isolating switch Document shredding machines shall incorporate an isolating switch complying with sub-clause 3.4.2 as the device disconnecting the power of hazardous moving parts. For this switch, two- position (single-use) switch or multi-position (multifunction) switch (e.g., slide switch) may be used.	Added. Not Document shredding machines.	N/A			
	If two-position switch, the positions for "ON" and "OFF" shall be indicated in accordance with sub- clause 1.7.8. If multi-position switch, the position for "OFF" shall be indicated in accordance with sub-clause 1.7.8 and other positions shall be indicated with proper terms or symbols.					
	Compliance is checked by inspection.					
JA.4	 Protection in operator access areas Any warning shall not be used instead of the structure for preventing access to hazardous moving parts. Document shredding machines shall comply with the following requirements. Push the test finger, Figure JA.1, into all openings in MECHANICAL ENCLOSURES without applying additional force. It shall not be possible to touch hazardous moving parts with the test finger. The document shredding machine is installed as intended, and all face of MECHANICAL ENCLOSURES are subjected to this test. Before testing with the test finger, remove the parts detachable without a tool. Push the wedge-probe, Figure JA.2, into the document-slot. And, against all directions of 	Added. Not Document shredding machines.	N/A			
	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 shall not influence the test. Before testing withy the test finger, 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.					



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

Note 1 - The probe shall be of changing the thickness linearly. However, the slope shall

be changed at the respective points shown in the table.

Note 2 – The allowable dimensional tolerance of the probe is +/- 0.127 mm.

Figure JA.2 Wedge-probe

Annex JB (reference)	N N N N N N N N N N N N N N N N N N N	Added.	N/A
,	The objective of this reference is not to propose new technical standards for the device. As a means of reducing the possibility that voltages in excess of 1.5kV peak may be applied to the device, these specifications provide for matters that must be adhered to concerning the device on the premise that it is installed in an environment within which appropriate measures have been taken in accordance with " ITU-T Recommendation K.11 :1993". However, since environments that are not commensurate with this K.11 are often discovered domestically, this document attempts to describe the preferred environment and demonstrate the means for developing the preferred installation environment, thus contributing to its enhancement.		
JB.1	JB.1 Preferred installation environment		N/A
JB.2	Current state and means of handling overvoltage and overcurrent in the installation environment		N/A

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N/A

N/A

	National Difference	5	1
Clause	Requirement – Test	Result – Remark	Verdict
Appendix	J3000 (H21) Special National conditions, National deviation and MITI Ordinance No. 85.	other information according to	_
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.	In approved adaptor	N/A
2	Requirement for equipment		
2.1	Electric heater 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 機化合物およ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 relevant equipment or component.	N/A
3.1	 Motor capacitors used in air conditioner, electric washing machine, refrigerator or electric freezer shall be comply with 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 		N/A
	Enclosed by metal or ceramic		N/A

No non-metallic materials within 50 mm from

Non-metallic material within 50 mm from

capacitor surface

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	National Differences				
Clause	Requirement – Test	Result – Remark	Verdict		
	capacitor surface comply with needle frame test of JIS C 9335-1(2003), Annex E				
	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. 				

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Type Designation: Report Number:



Figure 1 Front view of plastic enclosure type A



Figure 2 Rear view of plastic enclosure type A

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Figure 4 Rear view of plastic enclosure type A



Type Designation: Report Number:



Figure 5 Rear view of plastic enclosure type A



Figure 6 Front view of plastic enclosure type B



Type Designation: Report Number:



Figure 7 Rear view of plastic enclosure type B



Figure 8 Side view of plastic enclosure type B

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Type Designation: Report Number:

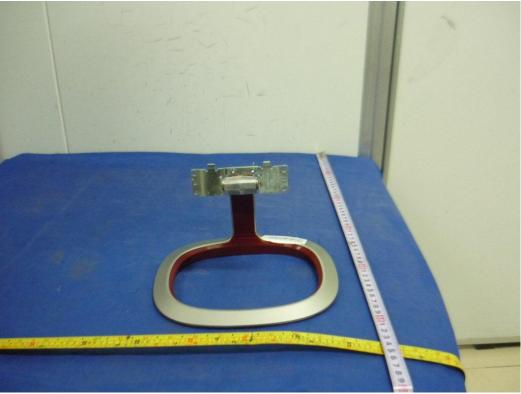


Figure 9 Base type A

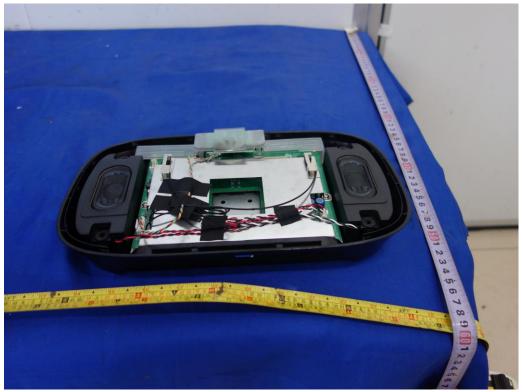


Figure 10 Internal view of base type B

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Type Designation: Report Number:

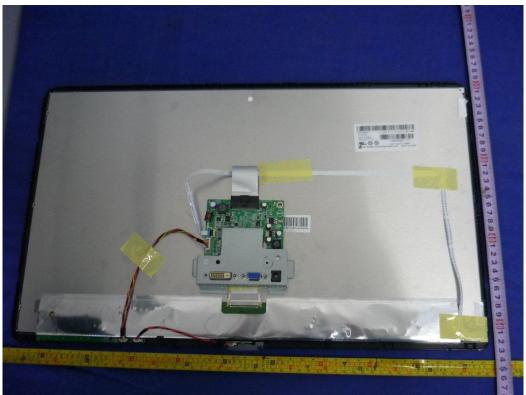


Figure 11 Internal view of plastic enclosure type A



Figure 12 Main board 715G5881

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Type Designation: Report Number:



Figure 13 Main board 715G5881



Figure 14 Main board 715G5276

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Type Designation: Report Number:

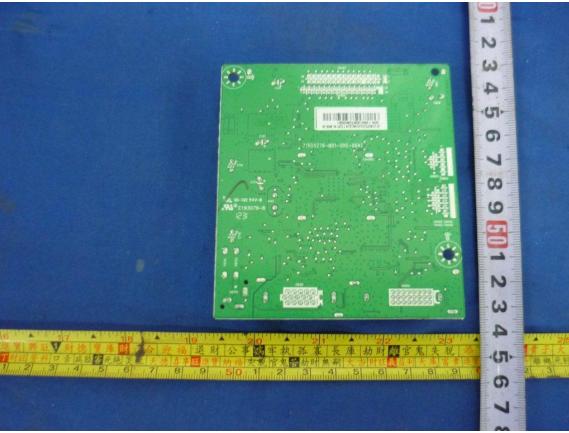


Figure 15 Main board 715G5276



Figure 16 Main board 715G6329

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Type Designation: Report Number:

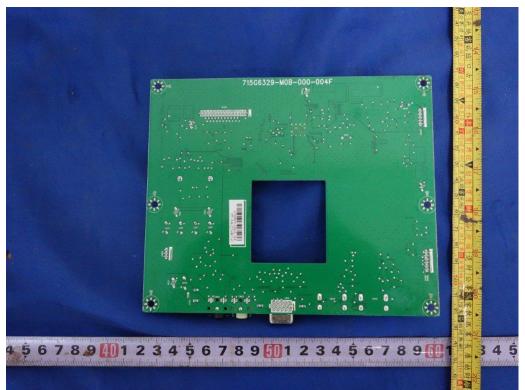


Figure 17 Main board 715G6329



Figure 18 Main board 715G6295



Type Designation: Report Number: See test report 17031503 001 4 00 6 401 715G6295-M08-000-004 I N w 4 -07-6 -1 00 9 N 63 4 -10-6 21 V V 00 Late and Later a 粤 100 28 9

Figure 19 Main board 715G6295