Certificate of Compliance

with

European Low Voltage Directive

No.

Type of equipment:					
Certificate holder:					
Type designation:					
Technical data:					
A		4-1 f CE	1:	Post Alexander	
A sample of the equipm	ient nas been tes	tea for CE-n	narking accord	aing to the EC Lo)W
Voltage Directive,					
Standard used for show	ving compliance	with the esse	ential requiren	nents of the direct	tive
Standard(s):	Test report(s)		Issued by:	Date(s):	
			Cerpass		

The referred test report(s) show that the product fulfills the requirements in the EC Low Voltage Directive for CE marking. On this basis, together with the manufacturer's own documented production control, the manufacturer (or his European authorized representative) can in his EC Declaration of Conformity verify compliance with the EC Low Voltage Directive.



Engineering Department



TEST REPORT

IEC 60950-1

Information technology equipment – Safety – Part 1: General requirements

Report Reference No	T1107110-158	
Tested by (printed name and signature):	Eddie Lee	Eddie lee
Approved by (printed name and signature):	Deborah Pan	Eddie lee Dhuh Pan
Date of issue:	September 8 , 2011	
Testing Laboratory Name:	Cerpass Technology Corp.	
Address:	9F, No. 200, Gangcian Rd., N Taiwan	Neihu District, Taipei City 114,
Applicant's name	VIVOTEK INC.	
Address:	6F, No.192, Lien-Cheng Rd., Taiwan, R.O.C.	Chung-Ho , New Taipei City, 235,
Test specification:		-
Standard:	IEC 60950-1:2005 (2nd Editio EN 60950-1:2006 + A11:2009	n); Am 1:2009 and/or 9 + A1:2010
Test procedure:	Service of CE Marking in LVD)
Non-standard test method:	N/A	
Test item description:	Network Camera	
Trade Mark:	YIVOTEK	
Manufacturer:	Same as applicant	
Model/Type reference:	FE8171V	
Ratings:	Input: DC 12V , 0.6A (Supplied from DC 48V, 0.18A (Supplied from	external power adaptor) or n PoE device) (Optional)

Page 2 of 55



Particulars: test item vs. test require	ements
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Equipment mobility.....: Stationary

Operating condition.....: Continuous

Access location Operator accessible

Over voltage category (OVC) N/A

Mains supply tolerance (%) or absolute mains supply

values: N/A

Tested for IT power systems N/A

IT testing, phase-phase voltage (V) N/A

Considered current rating (A) N/A

Pollution degree (PD) PD 2

IP protection class: IPX0

Altitude during operation (m) Up to 2000 m

Altitude of test laboratory (m) Up to 2000 m

Mass of equipment (kg) 0.7 kg

Possible test case verdicts:

- test case does not apply to the test object: N/A

- test object does meet the requirement....... P (Pass)

- test object does not meet the requirement...... F (Fail)

Testing

General remarks:

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

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

Factor(ies):

VIVOTEK INC.

5F, No.168, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235, Taiwan, R.O.C.

Page 3 of 55



General product information:

This equipment, model FE8171V, is a Network Camera which is intended to use within information technology equipment.

Other comments:

The maximum operating temperature is defined as +50 °C.

The building-in switching power supply (ENG/3A-183WP12) for used with this product is defined as 40°C for maximum ambient temperature during approval, however, additional evaluation has been performed.

The equipment is power supplied from the external power adaptor or PoE device which is complied with the requirement of Limited Power Source. Otherwise, the external power adaptor which is intended to be used with this equipment in the regional market should be stated in the specified type in the instruction by suitable regional languages.

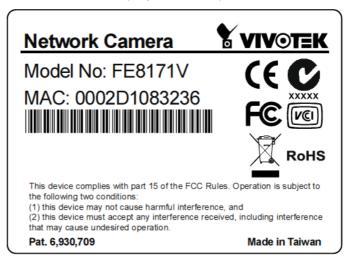
PoE circuits are considered as SELV circuits, the function of the ITE being investigated to IEC 60950-1 is considered not likely to require connection to an Ethernet Network with outside plant routing, including campus environment; and the installation instruction clearly states that the ITE is to be connected only to PoE networks without routing to the outside plant.

The equipment is considered as indoor used only.

This label drawing is a draft of an artwork for marking plates pending approval by National Certification Bodies and it shall not be affixed to products prior to such an approval.

Copy of marking plate:

(Representative)





	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
1	GENERAL		Р
1.5	Components		Р
1.5.1	General	See below.	Р
	Comply with IEC 60950-1 or relevant component standard	Components which were found to affect safety aspects comply with the requirements of this standard or with the safety aspects of the relevant IEC/EN component standards. See appended table 1.5.1.	Р
1.5.2	Evaluation and testing of components	Components that are certified to IEC and /or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	Р
1.5.3	Thermal controls	No thermal control.	N/A
1.5.4	Transformers	No transformers used except for approved power adaptors.	N/A
1.5.5	Interconnecting cables	Interconnecting cables comply with the relevant requirements of this standard.	Р
1.5.6	Capacitors bridging insulation	Equipment is not directly connected to the AC mains supply.	N/A
1.5.7	Resistors bridging insulation	No such components.	N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	Same as above.	N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	Same as above.	N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	Same as above.	N/A
1.5.8	Components in equipment for IT power systems	Equipment is not directly connected to the AC mains supply.	N/A
1.5.9	Surge suppressors	No such components.	N/A
1.5.9.1	General	Same as above.	N/A
1.5.9.2	Protection of VDRs	Same as above.	N/A



	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
1.5.9.3	Bridging of functional insulation by a VDR	Same as above.	N/A	
1.5.9.4	Bridging of basic insulation by a VDR	Same as above.	N/A	
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	Same as above.	N/A	

1.6	Power interface		Р	
1.6.1	AC power distribution systems	Equipment is not directly connected to the AC mains supply.	N/A	
1.6.2	Input current	Highest load according to 1.2.2.1 for this equipment is operated in data-link mode. (see appended table)	Р	
1.6.3	Voltage limit of hand-held equipment	Not hand-held equipment.	N/A	
1.6.4	Neutral conductor	Equipment is not directly connected to the AC mains supply.	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	All information is provided on a label.	Р
	Multiple mains supply connections:	No direct connection to mains supply.	N/A
	Rated voltage(s) or voltage range(s) (V)	(1)DC 12V (2) DC 48V	Р
	Symbol for nature of supply, for d.c. only	==	Р
	Rated frequency or rated frequency range (Hz):		N/A
	Rated current (mA or A)	(1)0.6A (2) 0.18A	Р
1.7.1.2	Identification markings	See below.	Р
	Manufacturer's name or trade-mark or identification mark	Y VIVOTEK	Р
	Model identification or type reference	FE8171V	Р
	Symbol for Class II equipment only	Class III equipment.	N/A
	Other markings and symbols:	Additional symbols or markings do not give rise to misunderstanding.	Р



IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.2	Safety instructions and marking	The user's guide is provided to the user containing safety instructions.	Р
1.7.2.1	General	Same as above.	Р
1.7.2.2	Disconnect devices	Equipment is not directly connected to the AC mains supply.	N/A
1.7.2.3	Overcurrent protective device	Class III equipment.	N/A
1.7.2.4	IT power distribution systems	Equipment is not directly connected to the AC mains supply.	N/A
1.7.2.5	Operator access with a tool	Only SELV inside.	N/A
1.7.2.6	Ozone	No ozone produces within this equipment.	N/A
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N/A
1.7.4	Supply voltage adjustment:	No voltage adjustment device provided.	N/A
	Methods and means of adjustment; reference to installation instructions:	Same as above.	N/A
1.7.5	Power outlets on the equipment	No power outlet.	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)	No fuse.	N/A
1.7.7	Wiring terminals	See below.	N/A
1.7.7.1	Protective earthing and bonding terminals:	No direct connection to mains supply.	N/A
1.7.7.2	Terminals for a.c. mains supply conductors	No direct connection to mains supply.	N/A
1.7.7.3	Terminals for d.c. mains supply conductors	No direct connection to mains supply.	N/A
1.7.8	Controls and indicators	See below.	Р
1.7.8.1	Identification, location and marking:	The marking and indication is located that indication of function clearly.	Р
1.7.8.2	Colours	No safety relevant controls or indicators.	N/A
1.7.8.3	Symbols according to IEC 60417	No switch used.	N/A
1.7.8.4	Markings using figures	No indicators for different positions.	N/A



	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
1.7.9	Isolation of multiple power sources:	No connection supplying hazardous voltages or hazardous energy levels to equipment.	N/A
1.7.10	Thermostats and other regulating devices:	No such device provided.	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 s and then again for 15 s with the cloth soaked with petroleum spirit.	P
		After this test there was no damage to the label. The marking on the label did not fade. There was neither curling nor lifting of the label edge.	
1.7.12	Removable parts	No removable part provided.	N/A
1.7.13	Replaceable batteries:	No battery provided.	N/A
	Language(s):		_
1.7.14	Equipment for restricted access locations:	No restricted access location.	N/A
2	PROTECTION FROM HAZARDS		Р
	The equipment is supplied from external power adaptions considered to carry SELV at below 240VA only. No hazards.		
2.1	Protection from electric shock and energy hazards		Р
2.1.1	Protection in operator access areas		Р
2.1.1.1	Access to energized parts	See below.	Р
	Test by inspection	EUT with SELV circuits.	Р
	Test with test finger (Figure 2A)	Same as above.	Р
	Test with test pin (Figure 2B)	Same as above.	Р
	Test with test probe (Figure 2C)	No TNV circuits.	N/A
2.1.1.2	Battery compartments	No battery compartments and TNV circuits.	N/A

No ELV wiring in operator

accessible area.

Same as above.

N/A

2.1.1.3

Access to ELV wiring

Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)



IEC 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict	
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	No energy hazard in operator access area.	Р	
2.1.1.6	Manual controls	No conductive shaft of operating knob and handle.	N/A	
2.1.1.7	Discharge of capacitors in equipment	No direct connection to mains supply.	N/A	
	Measured voltage (V); time-constant (s)	Same as above.		
2.1.1.8	Energy hazards – d.c. mains supply	Same as above.	N/A	
	a) Capacitor connected to the d.c. mains supply:	Same as above.	N/A	
	b) Internal battery connected to the d.c. mains supply	Same as above.	N/A	
2.1.1.9	Audio amplifiers	No audio amplifier provided.	N/A	
2.1.2	Protection in service access areas	No maintenance work in operation mode necessary.	N/A	
2.1.3	Protection in restricted access locations	It is not intended to use in restricted locations.	N/A	

2.2	SELV circuits		Р
	The equipment is supplied from external power adaptions considered to carry SELV at below 240VA only. No hazards.		
2.2.1	General requirements	See below.	Р
2.2.2	Voltages under normal conditions (V):	Between any SELV circuits 42.4V peak or 60VDC are not exceeded.	Р
2.2.3	Voltages under fault conditions (V)	Single fault did not cause excessive voltage in accessible SELV circuits. Limits of 71V peak and 120V DC were not exceed and SELV limits not for longer than 0.2 seconds.	Р
2.2.4	Connection of SELV circuits to other circuits:	See 2.2.2 and 2.2.3. No direct connection between SELV and any primary circuits.	N/A

2.3	TNV circuits	N/A	
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	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Class III equipment without TNV circuit.		
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
	No such circuit within this equipment.		
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
			1
2.5	Limited power sources		N/A

2.5	Limited power sources	
	The equipment is power supplied from the external power adaptor, PoE device which is complied with the requirement of Limited Power Source.	
	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

Page 10 of 55



	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	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		N/A	
2.6	Provisions for earthing and bonding		N/A	
	Class III equipment.			

2.6	Provisions for earthing and bonding	N/A
	Class III equipment.	
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 (mm²), AWG	_
2.6.3.3	Size of protective bonding conductors	N/A
	Rated current (A), cross-sectional area (mm²), AWG	_
	Protective current rating (A), cross-sectional area (mm²), AWG	N/A
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



N/A

N/A

N/A N/A

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
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 primar	v circuits	N/A
2.1	Class III equipment.	y circuits	14/7
2.7.1	Basic requirements		N/A
	Instructions when protection relies on building installation		N/A
2.7.2	Faults not simulated in 5.3.7		N/A
2.7.3	Short-circuit backup protection		N/A
2.7.4	Number and location of protective devices:		N/A
2.7.5	Protection by several devices		N/A
2.7.6	Warning to service personnel:		N/A
2.8	Safety interlocks		N/A
	No such device within this equipment.		
2.8.1	General principles		N/A
2.8.2	Protection requirements		N/A
2.8.3	Inadvertent reactivation		N/A
2.8.4	Fail-safe operation		N/A
	Protection against extreme hazard		N/A
2.8.5	Moving parts		N/A
2.8.6	Overriding		N/A
2.8.7	Switches, relays and their related circuits		N/A
2.8.7.1	Separation distances for contact gaps and their related circuits (mm):		N/A

2.8.8

2.8.7.2

2.8.7.3

2.8.7.4

Overload test

Endurance test

Electric strength test

Mechanical actuators



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

2.9	Electrical insulation		Р
	The equipment is supplied from external power adaptor or PoE device that is considered to carry SELV at below 240VA only. Only SELV inside the unit. (See also sub clause 5.3.4)		
2.9.1	Properties of insulating materials	Natural rubber, asbestos or hygroscopic materials are not used.	Р
2.9.2	Humidity conditioning	Class III equipment, only functional insulation requirements.	N/A
	Relative humidity (%), temperature (°C):		_
2.9.3	Grade of insulation	The adequate levels of safety insulation is provided and maintained to comply with the requirements of this standard.	Р
2.9.4	Separation from hazardous voltages	Class III equipment, which is separated from hazardous voltage by double/reinforced insulation through external power adaptor, PoE or I/O terminal device.	Р
	Method(s) used:	Same as above.	

2.10	Clearances, creepage distances and distances th	rough insulation	Р
	The equipment is supplied from external power adaptor or PoE device that is considered to carry SELV at below 240VA only. Only SELV inside the unit. (See also sub clause 5.3.4)		
2.10.1	General	Functional insulation only. See 5.3.4 c).	Р
2.10.1.1	Frequency		N/A
2.10.1.2	Pollution degrees		N/A
2.10.1.3	Reduced values for functional insualtion		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



	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
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 suplply		N/A	
	For an a.c. mains supply		N/A	
	For a d.c. mains supply		N/A	
	b) Transients from a telecommunication network :		N/A	
2.10.4	Creepage distances		N/A	
2.10.4.1	General		N/A	
2.10.4.2	Material group and caomparative tracking index		N/A	
	CTI tests		_	
2.10.4.3	Minimum creepage distances		N/A	
2.10.5	Solid insulation		N/A	
2.10.5.1	General		N/A	
2.10.5.2	Distances through insulation		N/A	
2.10.5.3	Insulating compound as solid insulation		N/A	
2.10.5.4	Semiconductor devices		N/A	
2.10.5.5.	Cemented joints		N/A	
2.10.5.6	Thin sheet material – General		N/A	



	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
2.10.5.7	Separable thin sheet material		N/A	
2.10.5.7	Number of layers (pcs)		14/74	
2.10.5.8	Non-separable thin sheet material		N/A	
2.10.5.8	Thin sheet material – standard test procedure		N/A	
2.10.5.9	Electric strength test		IN/A	
2.10.5.10			N/A	
2.10.5.10	Thin sheet material – alternative test procedure		IN/A	
0.40.5.44	Electric strength test			
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, supplemetary, reinforced insulation:		N/A	
	c) Compliance with Annex U:		N/A	
	Two wires in contact inside wound component; angle between 45° and 90°		N/A	
2.10.5.13	Wire with solvent-based enamel in wound components		N/A	
	Electric strength test		_	
	Routine test		N/A	
2.10.5.14	Additional insulation in wound components		N/A	
	Working voltage		N/A	
	- Basic insulation not under stress:		N/A	
_	- Supplemetary, reinforced insulation:		N/A	
2.10.6	Construction of printed boards		N/A	
2.10.6.1	Uncoated printed boards		N/A	
2.10.6.2	Coated printed boards		N/A	
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N/A	
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	



	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	T_ :			
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	All internal wires are UL recognized wiring which is PVC insulated, rated VW-1. Internal wiring gauge is suitable for current intended to be carried.	Р
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges and heatsinks which could damage the insulation and cause hazard.	Р
3.1.3	Securing of internal wiring	The wires are secured by soldering and quick connector so that a loosening of the terminal connection is unlikely.	Р
3.1.4	Insulation of conductors	The insulation of the individual conductors is suitable for the application and the working voltage. For the insulation material see 3.1.1.	Р
3.1.5	Beads and ceramic insulators	Not used.	N/A
3.1.6	Screws for electrical contact pressure	No such screws.	N/A
3.1.7	Insulating materials in electrical connections	All current carrying connections are metal to metal.	N/A

Page 16 of 55



	IEC 60950-	1	
Clause	Requirement + Test	Result - Remark	Verdict
3.1.8	Self-tapping and spaced thread screws	No self-tapping or spaced thread screws used.	N/A
3.1.9	Termination of conductors	Only SELV inside the equipment.	N/A
	10 N pull test	Same as above.	N/A
3.1.10	Sleeving on wiring	No sleeving used as supplementary insulation.	N/A

3.2	Connection to a mains supply	N/A
	Class III equipment. No direct connection to mains supply.	
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 (mm²), AWG	_
3.2.5.2	DC power supply cords	N/A
3.2.6	Cord anchorages and strain relief	N/A
	Mass of equipment (kg), pull (N)	_
	Longitudinal displacement (mm):	_
3.2.7	Protection against mechanical damage	N/A
3.2.8	Cord guards	N/A
	Diameter or minor dimension D (mm); test mass (g)	_
	Radius of curvature of cord (mm):	_
3.2.9	Supply wiring space	N/A



	IEC 60950-1				
Clause Requirement + Test Result - Remark V					
3.3	Wiring terminals for connection of external cond	luctors	N/A		
	Class III equipment. No direct connection to mains st	upply.			
3.3.1	Wiring terminals		N/A		
3.3.2	Connection of non-detachable power supply cords		N/A		
3.3.3	Screw terminals		N/A		
3.3.4	Conductor sizes to be connected		N/A		
	Rated current (A), cord/cable type, cross-sectional area (mm²):		_		
3.3.5	Wiring terminal sizes		N/A		
	Rated current (A), type, nominal thread diameter (mm)		_		
3.3.6	Wiring terminal design		N/A		
3.3.7	Grouping of wiring terminals		N/A		
3.3.8	Stranded wire		N/A		
	•				
3.4	Disconnection from the mains supply		N/A		
	Class III equipment. No direct connection to mains su	upply.			
3.4.1	General requirement		N/A		
3.4.2	Disconnect devices		N/A		
3.4.3	Permanently connected equipment		N/A		
3.4.4	Parts which remain energized		N/A		
3.4.5	Switches in flexible cords		N/A		
3.4.6	Number of poles - single-phase and d.c. equipment		N/A		
3.4.7	Number of poles - three-phase equipment		N/A		
3.4.8	Switches as disconnect devices		N/A		
3.4.9	Plugs as disconnect devices		N/A		
3.4.10	Interconnected equipment		N/A		
3.4.11	Multiple power sources		N/A		
			T		
3.5	Interconnection of equipment		Р		
3.5.1	General requirements	See below.	Р		
3.5.2	Types of interconnection circuits:	Interconnection circuits of SELV through sec. connector.	Р		
3.5.3	ELV circuits as interconnection circuits	No ELV interconnection.	N/A		



	IEC 60950) - 1	
Clause	Requirement + Test	Result - Remark	Verdict
			T
3.5.4	Data ports for additional equipment	Supplied from the external power adaptor, PoE device which is complied with LPS.	Р

4	PHYSICAL REQUIREMENTS		Р
4.1	.1 Stability		N/A
	Angle of 10°	The installation instructions specify that the equipment is to be mounted on wall or ceiling before operation.	N/A
	Test force (N)	Equipment is not a floorstanding unit.	N/A

4.2	Mechanical strength		Р
	The equipment is supplied from external power adaptor or PoE device that is considered to carry SELV at below 240VA only. Only SELV inside the unit.		
4.2.1	General		N/A
	Rack-mounted equipment.		N/A
4.2.2	Steady force test, 10 N		N/A
4.2.3	Steady force test, 30 N		N/A
4.2.4	Steady force test, 250 N		N/A
4.2.5	Impact test		N/A
	Fall test		N/A
	Swing test		N/A
4.2.6	Drop test; height (mm):		N/A
4.2.7	Stress relief test		N/A
4.2.8	Cathode ray tubes	No CRT.	N/A
	Picture tube separately certified:	Same as above.	N/A
4.2.9	High pressure lamps	No high pressure lamp.	N/A
4.2.10	Wall or ceiling mounted equipment; force (N):	Applied 50N.	Р
4.2.11	Rotating solid media		N/A
	Test to cover on the door		N/A

4.3	Design and construction		Р
4.3.1	Edges and corners	Edges and corners of the enclosure are rounded.	Р



IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.3.2	Handles and manual controls; force (N):	No handles or controls used.	N/A
4.3.3	Adjustable controls	No control device.	N/A
4.3.4	Securing of parts	Mechanical fixings are reliable designed to withstand mechanical stress occurring during normal use.	Р
4.3.5	Connection by plugs and sockets	No misconnection of plugs, connections or sockets possible.	Р
4.3.6	Direct plug-in equipment	Not direct plug-in type.	N/A
	Torque	Same as above.	_
	Compliance with the relevant mains plug standard	Same as above.	N/A
4.3.7	Heating elements in earthed equipment	No heating elements.	N/A
4.3.8	Batteries	No battery provided.	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	Insulation in intended use not considered to be exposed to oil and grease.	N/A
4.3.10	Dust, powders, liquids and gases	EUT in intended use does not produce dust or use powders, liquids or gases.	N/A
4.3.11	Containers for liquids or gases	No such containers provided.	N/A
4.3.12	Flammable liquids	No flammable liquids used.	N/A
	Quantity of liquid (I):	Same as above.	N/A
	Flash point (°C):	Same as above.	N/A
4.3.13	Radiation	No concerned radiation within this equipment.	Р
4.3.13.1	General	Same as above.	Р
4.3.13.2	Ionizing radiation	No ionizing radiation or flammable liquids present.	N/A
	Measured radiation (pA/kg)	Same as above.	_
	Measured high-voltage (kV)	Same as above.	_



	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
			1
	Measured focus voltage (kV):	Same as above.	_
	CRT markings	Same as above.	
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No UV radiation.	N/A
	Part, property, retention after test, flammability classification	Same as above.	N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	No UV radiation.	N/A
4.3.13.5	Lasers (including laser diodes) and LEDs	See below.	Р
4.3.13.5.1	Lasers (including laser diodes)		N/A
	Laser class		_
4.3.13.5.2	Light emitting diodes (LEDs)	AEL of LED far below the limiting values for LED Class 1.	Р
4.3.13.6	Other types:		N/A

4.4	Protection against hazardous moving parts	N/A
	No hazard moving parts are employed	
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	See below.	Р

Page 21 of 55



	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.5.2	Temperature tests	See appended table 4.5.	Р
	Normal load condition per Annex L	See appended table 1.6.2.	
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	Class III equipment.	N/A
4.6	Openings in enclosures		Р
4.6.1	Top and side openings	No opening.	' Р
4.0.1	Dimensions (mm)	No opening.	'
4.6.2	Bottoms of fire enclosures	The external AC adaptor and PoE device are both complied with LPS, and fire enclosure could be not required.	N/A
	Construction of the bottomm, dimensions (mm):	See appended table 4.6.1, 4.6.2.	_
4.6.3	Doors or covers in fire enclosures	No doors or covers provided.	N/A
4.6.4	Openings in transportable equipment	Not transportable equipment.	N/A
4.6.4.1	Constructional design measures	Same as above.	N/A
	Dimensions (mm)	Same as above.	_
4.6.4.2	Evaluation measures for larger openings	Same as above.	N/A
4.6.4.3	Use of metallized parts	Same as above.	N/A
4.6.5	Adhesives for constructional purposes	No such consideration.	N/A
	Conditioning temperature (°C), time (weeks):	Same as above.	
4.7	Resistance to fire		Р
4.7.1	Reducing the risk of ignition and spread of flame	Use of materials with the required flammability classes.	Р
	Method 1, selection and application of components wiring and materials	Method 1 used.	Р
	Method 2, application of all of simulated fault condition tests	Same as above.	N/A
4.7.2	Conditions for a fire enclosure	See below.	Р
4.7.2.1	Parts requiring a fire enclosure	See below.	N/A



IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.7.2.2	Parts not requiring a fire enclosure	The appliance with: Supply of components in the secondary circuit by limited power source. The components are mounted on PCB material of flammability rating V-1 min., the fire enclosure construction is not required.	Р
4.7.3	Materials		Р
4.7.3.1	General	PCB rated accordingly. For details see table 1.5.1.	Р
4.7.3.2	Materials for fire enclosures	See sub-clause 4.7.2.	N/A
4.7.3.3	Materials for components and other parts outside fire enclosures	Same as above.	N/A
4.7.3.4	Materials for components and other parts inside fire enclosures	Same as above.	N/A
4.7.3.5	Materials for air filter assemblies	No air filter provided.	N/A
4.7.3.6	Materials used in high-voltage components	No high voltage components provided.	N/A
5	ELECTRICAL REQUIREMENTS AND SIMULATED	ABNORMAL CONDITIONS	Р
5.1	Touch current and protective conductor current		N/A
	Class III equipment without TNV circuit.		
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):		

Page 23 of 55



	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Max. allowed protective conductor current (mA):		—
5.1.7	Equipment with touch current exceeding 3,5 mA		N/A
5.1.7.1	General:		N/A
5.1.7.2	Simultaneous multiple connections to the supply		N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks		N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system		N/A
	Supply voltage (V)		_
	Measured touch current (mA)		_
	Max. allowed touch current (mA)		_
5.1.8.2	Summation of touch currents from telecommunication networks		N/A
	a) EUT with earthed telecommunication ports:		N/A
	b) EUT whose telecommunication ports have no reference to protective earth		N/A
5.2	Electric strength		N/A
	Class III equipment without TNV circuit.		
5.2.1	General		N/A
5.2.2	Test procedure		N/A
5.3	Abnormal operating and fault conditions		Р
5.3.1	Protection against overload and abnormal	See sub-clause 5.3.4.	N/A

No motors provided.

No safety isolation transformer in this equipment.

N/A

N/A

5.3.2 5.3.3 operation Motors

Transformers



	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
5.3.4	Functional insulation:	Method c) considered.	Р	
		- All components are mounted on PCB of flammability V-1.		
		- No risk of electrical shock.		
		- All ventilation openings have been blocked during temperature tests. (See appended table 4.5.)		
		no test had been performed.		
5.3.5	Electromechanical components	No electromechanical components.	N/A	
5.3.6	Audio amplifiers in ITE:	No audio amplifier within this equipment.	N/A	
5.3.7	Simulation of faults	See sub-clause 5.3.4.	N/A	
5.3.8	Unattended equipment	None of the listed components provided.	N/A	
5.3.9	Compliance criteria for abnormal operating and fault conditions	See sub-clause 5.3.4.	N/A	
5.3.9.1	During the tests		N/A	
5.3.9.2	After the tests		N/A	
6	CONNECTION TO TELECOMMUNICATION NETW	/ORKS	N/A	
	Class III equipment without TNV circuit.			
6.1	Protection of telecommunication network service per equipment connected to the network, from hazards it		N/A	
6.1.1	Protection from hazardous voltages		N/A	
6.1.2	Separation of the telecommunication network from e	earth	N/A	
6.1.2.1	Requirements		N/A	
	Supply voltage (V)		_	
	Current in the test circuit (mA)		_	
6.1.2.2	Exclusions		N/A	
6.2	Protection of equipment users from overvoltages networks	s on telecommunication	N/A	
6.2.1	Separation requirements		N/A	
6.2.2	Electric strength test procedure		N/A	
		•		



	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
6.2.2.1	Impulse test		N/A
6.2.2.2	Steady-state test		N/A
6.2.2.3	Compliance criteria		N/A

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

7	CONNECTION TO CABLE DISTRIBUTION SYSTE	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		N/A
7.4.3	Impulse test		N/A

Α	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE	
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):	_



N/A

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Sample 2 burning time (s):		
	Sample 3 burning time (s)		
A.2	Flammability test for fire enclosures of movable equi exceeding 18 kg, and for material and components (see 4.7.3.2 and 4.7.3.4)		N/A
A.2.1	Samples, material:		_
	Wall thickness (mm)		
A.2.2	Conditioning of samples; temperature (°C):		N/A
A.2.3	Mounting of samples		N/A
A.2.4	Test flame (see IEC 60695-11-4)		N/A
	Flame A, B or C		_
A.2.5	Test procedure		N/A
A.2.6	Compliance criteria		N/A
	Sample 1 burning time (s):		_
	Sample 2 burning time (s)		_
	Sample 3 burning time (s)		_
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9		N/A
	Sample 1 burning time (s)		_
	Sample 2 burning time (s)		
	Sample 3 burning time (s)		_
A.3	Hot flaming oil test (see 4.6.2)		N/A
A.3.1	Mounting of samples		N/A
A.3.2	Test procedure		N/A
A.3.3	Compliance criterion		N/A
ь	ANNEY D. MOTOR TESTS LINDER ARMORMAL CO	ONDITIONS (see 4.7.2.2 cmd	N/A
В	ANNEX B, MOTOR TESTS UNDER ABNORMAL C 5.3.2)	See 4.7.2.2 and (see 4.7.2.2)	IN/A
B.1	General requirements		N/A
	Position:		_
	Manufacturer		_
		l .	

B.2

Test conditions



	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
B.3	Maximum temperatures		N/A	
B.4	Running overload test		N/A	
B.5	Locked-rotor overload test		N/A	
	Test duration (days):		_	
	Electric strength test: test voltage (V)		_	
B.6	Running overload test for d.c. motors in secondary circuits		N/A	
B.6.1	General		N/A	
B.6.2	Test procedure		N/A	
B.6.3	Alternative test procedure		N/A	
B.6.4	Electric strength test; test voltage (V):		N/A	
B.7	Locked-rotor overload test for d.c. motors in secondary circuits		N/A	
B.7.1	General		N/A	
B.7.2	Test procedure		N/A	
B.7.3	Alternative test procedure		N/A	
B.7.4	Electric strength test; test voltage (V):		N/A	
B.8	Test for motors with capacitors		N/A	
B.9	Test for three-phase motors		N/A	
B.10	Test for series motors		N/A	
	Operating voltage (V):		_	
С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N/A	
	Position		14// (
	Manufacturer			
			_	
	Type		_	
C 1	Method of protection:		N1/A	
C.1	Overload test		N/A	
C.2	Insulation Protection from displacement of windings		N/A	
	Protection from displacement of windings:		N/A	
D	ANNEX D, MEASURING INSTRUMENTS FOR TOU	ICH-CURRENT TESTS	N/A	

(see 5.1.4)







	IEC 60950-1	
Clause	Requirement + Test Result - Remark	Verdict
D.1	Measuring instrument	N/A
D.2	Alternative measuring instrument	N/A
E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)	N/A
F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)	N/A
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES	N/A
G.1	Clearances	N/A
G.1.1	General	N/A
G.1.2	Summary of the procedure for determining minimum clearances	N/A
G.2	Determination of mains transient voltage (V)	N/A
G.2.1	AC mains supply:	N/A
G.2.2	Earthed d.c. mains supplies:	N/A
G.2.3	Unearthed d.c. mains supplies:	N/A
G.2.4	Battery operation:	N/A
G.3	Determination of telecommunication network transient voltage (V):	N/A
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
	7	,,, .



	IEC 60950-1		_
Clause	Requirement + Test	Result - Remark	Verdict
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTI	ENTIALS (see 2.6.5.6)	Р
	Metal(s) used	Metal only	
	, , , , , , , , , , , , , , , , , , ,	,	
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
14.0	Stability of operation		IN/A
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SO	OME TYPES OF ELECTRICAL	Р
1.4	BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	<u> </u>	N1/0
L.1	Typewriters		N/A
L.2	Adding machines and cash registers		N/A
L.3	Erasers		N/A
	Pencil sharpeners		N/A
L.5	Duplicators and copy machines		N/A
L.6	Motor-operated files	Coo out player 4 C O	N/A
L.7	Other business equipment	See sub-clause 1.6.2.	Р
М	ANNEX M, CRITERIA FOR TELEPHONE RINGING	S SIGNALS (see 2.3.1)	N/A
M.1	Introduction	000 21011)	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):		
	<u> </u>		NI/A
M.3.2	Tripping device and monitoring voltage		N/A



	IEC 60950-1	
Clause	Requirement + Test Result - Remark	Verdict
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/A
N.1	ITU-T impulse test generators	N/A
N.2	IEC 60065 impulse test generator	N/A
Р	ANNEX P, NORMATIVE REFERENCES	_
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	N/A
	a) Preferred climatic categories:	N/A
	b) Maximum continuous voltage:	N/A
	c) Pulse current:	N/A
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES	N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	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
	See separate test report	



	IEC 60950-1	
Clause	Requirement + Test Result - Remark	Verdict
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
Х	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)	N/A
X.1	Determination of maximum input current	N/A
X.2	Overload test procedure	N/A
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	N/A
Y.1	Test apparatus	N/A
Y.2	Mounting of test samples:	N/A
Y.3	Carbon-arc light-exposure apparatus:	N/A
Y.4	Xenon-arc light exposure apparatus:	N/A
1.4	Action are light exposure apparatus	14/74
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)	N/A
		•
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	N/A
ВВ	ANNEX BB, CHANGES IN THE SECOND EDITION	_
СС	ANNEX CC, Evaluation of integrated circuit (IC) current limiters	N/A
CC.1	General	N/A
CC.2	Test program 1	N/A

Page 32 of 55



N/A

	IEC 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict		
CC.3	Test program 2:		N/A		
DD	ANNEX DD, Requirements for the mounting mea equipment	ns of rack-mounted	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 docume	nt/media shredders	N/A		
EE.1	General		N/A		
EE.2	Markings and instructions		N/A		
	Use of markings or symbols		N/A		
	Information of user instructions, maintenance and/or servicing instructions		N/A		
EE.3	Inadvertent reactivation test		N/A		
EE.4	Disconnection of power to hazardous moving parts:		N/A		
	Use of markings or symbols		N/A		
EE.5	Protection against hazardous moving parts		N/A		
	Test with test finger (Figure 2A):		N/A		

Test with wedge probe (Figure EE1 and EE2):



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

	EN 60950-1:2006	/A11:2009/A	1:2010 – CEN	ELEC COM	MON MODIFICATIONS	
Contents	Add the following	annexes:				Р
	Annex ZA (normat	tive)	Normative references to international publications with their corresponding European publications			
	Annex ZB (normat	tive)	Special nati	onal condition	ns	
General	Delete all the "country" notes in the reference document (IEC 60950-1:2005) according to the following list:			Р		
	1.4.8 Note 2 1.5.8 Note 2 2.2.3 Note 2.3.2.1 Note 2 2.7.1 Note 3.2.1.1 Note 4.3.6 Note 1 & 2 4.7.3.1Note 2 6 Note 2 & 5 6.2.2 Note 7.1 Note 3 G.2.1 Note 2	5.1.7.1	Note 2 & 3 Note Note 2 Note 2 Note 3. Note 4 Note 3 & 4 Note 2 Note 2 Note 2	1.5.7.1 1.7.2.1 2.3.2 2.6.3.3 2.10.5.13 2.5.1 4.7.2.2 5.3.7 6.1.2.2 6.2.2.2 7.3	Note Note 4, 5 & 6 Note Note 2 & 3 Note 3 Note 2 Note Note 1 Note Note Note Note Note 1 & 2	
General (A1:2010)	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A1:2010) according to the following list: 1.5.7.1 Note 6.1.2.1 Note 2			P		
	6.2.2.1 Note	2	EE.3	Note		
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.		N/A			

Page 34 of 55



IEC 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict	
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		Р	
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.		N/A	
2.7.1	Replace the subclause as follows:		N/A	
	Basic requirements			
	To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):			
	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;			
	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective 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.		N/A	
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.			
2.7.2	This subclause has been declared 'void'.		N/A	
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.		N/A	



IEC 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict	
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".		N/A	
	In Table 3B, replace the first four lines by the following:			
	Up to and including 6 0,75 a) Over 6 up to and including 10 (0,75) b) 1,0 Over 10 up to and including 16 (1,0) c) 1,5			
	In the conditions applicable to Table 3B delete the words "in some countries" in condition ^{a)} .			
	In NOTE 1, applicable to Table 3B, delete the second sentence.			
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:		N/A	
	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:		N/A	
(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.		N/A	
Annex H	Replace the last paragraph of this annex by:		N/A	
	At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.			
	Replace the notes as follows:			
	NOTE These values appear in Directive 96/29/Euratom.			
	Delete NOTE 2.			
Bibliograph y	Additional EN standards.		_	



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

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR	
	CORRESPONDING EUROPEAN PUBLICATIONS	

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



	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
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.		N/A
	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.		
	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)."		



	IEC 60950-1					
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 medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet."					
1.7.5	In Denmark , socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.		N/A			
	For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.					
2.2.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		N/A			
2.3.2	In Finland , Norway and Sweden there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.		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			

Page 39 of 55



	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
2.10.5.13	In Finland , Norway and Sweden , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.		N/A
3.2.1.1	In Switzerland , supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets:		N/A
	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 5933-2.1998:Plug Type 21, L+N, 250 V, 16A		
	SEV 5934-2.1998: Plug Type 23, L+N+PE .250 V, 16 A		



	IEC 60950-1						
Clause	Requirement + Test	Result - Remark	Verdict				
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.		N/A				
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.						
	If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.						
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.		N/A				
	NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.						

Page 41 of 55



	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
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 mm2 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:		N/A
	• 1,25 mm ² to 1,5 mm ² nominal cross-sectional area.		
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



	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
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
6.1.2.1 (A1:2010)	In Finland, Norway and Sweden, add the following text between the first and second paragraph of the compliance clause: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either - two layers of thin sheet material, each of which shall pass the electric strength test below, or - one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. Alternatively for components, there is no distance through insulation requirements for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition - passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and - is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.		N/A



IEC 60950-1					
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, 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.				
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.		N/A		
	The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.				
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		

Page 44 of 55



1.5.1	TAE	TABLE: List of critical components					
Object/part No.		Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)		k(s) of ormity ¹)
External pov adaptor (Optional)	ver	ENG Electric Co., Ltd.	3A-183WP12	I/P: 100-240 Vac, 50-60Hz, 0.6A O/P: 12Vdc, 1.5A, Tma=40°C	IEC 60950- 1:2005+A1, EN 60950- 1:2006+A11: 2009+A1:2010	CB by I	ntertek
				O/P: 12Vdc, 0.6A min., Tma = 50°C min., LPS	IEC 60950- 1:2005+A1, EN 60950- 1:2006+A11+A1		DE, , Nemko, Demko
Enclosure (metallic)				4.0mm thick, min.			
Enclosure (Plastic)				HB min.	UL 94	UL	
PCB				V-1 or better, Min. 105°C	UL 796	UL	

Supplementary information:

Maximum normal load: Connect to PC by I/O port and RJ-45, network camera capture image and transmit to PC continuously.

1.6.2	TABLE: Electrical data (in normal conditions)						
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
DC 12	0.22	0.6	2.64			Maximum normal load wit condition A.	th
DC 48	0.08	0.18	3.84			Maximum normal load wit condition B.	th

Supplementary information:

Condition A: Supplied from External Power Adaptor

Condition B: Supplied from PoE device

2.1.1.5 c) 1)	TABLE: ma	TABLE: max. V, A, VA test							
Voltage (rated) (V)		Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max (VA)	(.)			
supplementary information:									

Page 45 of 55



2)	TABLE: stored energy						
Capacitance C (µF) Voltage U (V)				Energy E (J)		
supplementary information:							
2.2 TABLE: evaluation of voltage lim	iting	compon	ents in SE	ELV c	ircuits	N/A	
Component (measured between)			voltage (V) Il operation		oltage Limiting C	Components	3
		V peak	V d.c				
Fault test performed on voltage limiting compone	ents	Voltage measured (V) in SELV circu (V peak or V d.c.)				rcuits	
supplementary information:							
2.5 TABLE: limited power sources						N/A	
Circuit output tested:							
Measured Uoc (V) with all load circuits disconnected:							
		I _{sc}	(A)		VA	1	
	N	Лeas.	Limi	t	Meas.	Limit	
Normal condition			8			100	
supplementary information:			•				
2.10.2 Table: working voltage measuren	nent					N/A	
Location RMS voltage	(V)	Peak vo	oltage (V)	Com	ments		
supplementary information:							

Page 46 of 55



2.10.3 and TABLE: Clearan 2.10.4	TABLE: Clearance and creepage distance measurements								
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)			
Supplementary information:									

2.10.5	TABLE: Distance through insulation measurements								
Distance th	rough insulation (DTI) at/of:	U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)			
Supplemen	tary information:								

< T1107110-158 >

Page 47 of 55



4.3.8	TABLE:	TABLE: Batteries							
The tests of data is not a		applicable	only when app	oropriate b	attery				
Is it possible	e to install	the battery	in a reverse p	olarity pos	sition?				
	Non-re	chargeable	batteries		Rechargeable batteries				
	Discha	arging	Un- intentional	Chai	Charging		Discharging		ersed ging
	Meas. current	Manuf. Specs.	charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition									
Max. current during fault condition									
Test results	:								Verdict
- Chemical	leaks								
- Explosion	of the batt	ery							
- Emission	of flame or	expulsion	of molten met	al					
- Electric st	rength test	s of equipn	nent after com	pletion of	tests				
Supplemen	tary inform	ation:			1				
	1								
4.3.8	TABLE:	Batteries							N/A
Battery cate	gory		:	(Lithium, N	liMh, NiCa	d, Lithium	lon)		
Manufactur	er		:						
Type / mode	el		·····:						
Voltage									
Capacity mAh									
Tested and Certified by (incl. Ref. No.):									
Circuit protection diagram:									



MARKINGS AND INSTRUCTIONS (1.7.2.1, 1.	MARKINGS AND INSTRUCTIONS (1.7.2.1, 1.7.13)						
Location of replaceable battery							
Language(s)							
Close to the battery							
In the servicing instructions:							
In the operating instructions							

4.5	TABLE: Thermal requirements					Р		
	Supply voltage (V):	DC	12V	DC	48V	_		
	Ambient T _{min} (°C):		-	-	_			
	Ambient T _{max} (°C):		-	-	_			
Maximum	measured temperature T of part/at::		T (°C)					
Operating	direction	Wall	Ceiling	Wall	Ceiling			
T1 coil		57.2	58.0	77.3	78.4	105		
BT3 body		59.0	59.5	63.3	63.0	70		
PWB between	een U3 and U5	60.2	60.9	63.8	64.5	105		
PWB near	U2	58.8	59.5	63.9	64.6	105		
L101 coil		57.3	57.1	60.4	61.3	105		
Internal pla	stic enclosure near T1	50.2	50.3	50.1	50.1			
Plastic lens	s near camera	53.0	54.1	54.8	56.2	95		
Metal enclosure outside near camera		54.0	54.6	56.3	57.0	70		
Tamb		23.5	23.1	22.8	23.3			
Tma		50.0	50.0	50.0	50.0			
Test condit	tion	90Vac	-					
Operating	direction (ENG / 3A-183WP12)	Horizontal	-					
T1 coil		64.4				110		
T1 core		63.1				110		
LF1 coil		60.5	1			130		
CX1 body		57.5	-			100		
MOV1 bod	у	57.5	-			130		
C1 body		61.3				105		
C2 body		61.7				105		
C3 body		60.7				105		
C4 body		56.9				105		
PCB near	Q1	64.1				130		

Page 49 of 55



CY1 body			58	3.9					85
U1 body			6	1.9					100
PCB near D8			62	2.6					130
D1 body near D2				9.3		-			130
D3 body near D4				3.3					130
Output wire				3.8					80
Enclosure inside near plug holder				9.4					105
Enclosure inside near T1				0.5					105
Enclosure outside above T1			54	4.4		-			95
Tamb			26	6.6		-			
Tma			50	0.0					
Supplementary information:									
Temperature T of winding:	t ₁ (°C)	R ₁	(Ω)	t ₂ (°0	C)	R ₂ (Ω) T (°C)	Allowed T _{max} (°C)	Insulation class
Supplementary information: All vent	ilation ope	ning	s hav	e beer	n blo	cked d	uring tempe	erature tests	

4.5.5	TABLE: Ball pressure test of thermoplastic part	s			N/A		
	Allowed impression diameter (mm) ≤ 2 mm						
Part			Test temperature (°C)	Impression (mn			
Suppleme	Supplementary information:						

4.6.1, 4.6.2 Table: enclosure openings					
Location	Size (mm)	Comments			
Top / Side		No opening.			
Bottom	6.6 x 4.2	One rectangular opening provided.			
Note(s):					

4.7	4.7 TABLE: Resistance to fire							
Part	t	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence		
PCB					Min. V-1	1)		

Page 50 of 55



Supplemen	tary information:							
1) See appe	nded table 1.5.1							
5.1	TABLE: touch c	urrent mea	asuremen	t				N/A
Measured b	oetween:		asured mA)	Limit (mA)	C	Comments/co	onditions	
supplement	tary information:	<u>'</u>						
5.2	TABLE: Electric	strenath t	ests. imp	ulse tests a	and vo	Itage surge	tests	N/A
Test voltage applied between: Voltage shape (AC, DC, impulse, surge) Voltage shape (V)								
Supplemen	tary information:							
Сарріоніон	tary information.							
5.3	TABLE: Fault co	ndition tes	sts					N/A
	Ambient tempera	ture (°C)		:	•			_
	Power source for output rating			model/type,				_
Component No.	t Fault	Supply voltage (V)	Test time	Fuse #	Fuse curre (A)		1	
Supplemen	tary information:							
	•							

Page 51 of 55



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

C.2	TABLE: transformers	N/A









With mounting means



