

COVER PAGE FOR TEST REPORT

Test Item Description:	16 Channel Video, Power, Data UTP Hub
Model/Type Reference:	TPP016VPD
Rating(s):	I/P: 110Vac, 60Hz, 5A
Standards:	IEC 60950-1:2001, First Edition
Applicant Name and Address:	SMART CABLING & TRANSMISSION CORP 10TH FL NO 493 CHUNG CHENG RD HSIN TIEN TAIPEI HSIEN 231 TAIWAN
Factory Location(s):	SMART CABLING & TRANSMISSION CORP 10TH FL NO 493 CHUNG CHENG RD HSIN TIEN TAIPEI HSIEN 231 TAIWAN
This Report includes the following parts, in addition to this cover page:	
<ol style="list-style-type: none">1. Specific Technical Criteria2. Clause Verdicts3. Critical Components4. Test Results5. Enclosures<ol style="list-style-type: none">a. National Differencesb. Photographs	
All applicable tests according to the above standard(s) have been carried out. Test results are valid only for the tested equipment. This Test Report can be reproduced only in whole. Amendments and corrections can be reproduced only with the original CB Test Report. Written permission from UL International Demko A/S is required if the test report is copied in part.	



Test Report issued under
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UL International Demko A/S

TEST REPORT
IEC 60950-1, First Edition
Information technology equipment-Safety
Part 1: General Requirements

Report Reference No : E319240-A2-CB-1

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CB Testing Laboratory : Sporton International Inc.

Address : 14FI-2, No. 186, Jianyi Rd., Junghe City, Taipei Hsien, Taiwan

Applicant's name : SMART CABLING & TRANSMISSION CORP

Address : 10TH FL NO 493
CHUNG CHENG RD
HSIN TIEN
TAIPEI HSIEN
231 TAIWAN

Test specification:

Standard : IEC 60950-1:2001, First Edition

Test procedure : CB Scheme

Non-standard test method : N/A

Test Report Form No. : IEC60950_1B

Test Report Form originator : SGS Fimko Ltd


Master TRF : dated 2003-03



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Test item description	16 Channel Video, Power, Data UTP Hub
Trade Mark	
Model/Type reference	TPP016VPD
Manufacturer	SMART CABLING & TRANSMISSION CORP 10TH FL NO 493 CHUNG CHENG RD HSIN TIEN TAIPEI HSIEN 231 TAIWAN
Rating	I/P: 110Vac, 60Hz, 5A




Testing procedure and testing location:	
<input checked="" type="checkbox"/> CB Testing Laboratory	
Testing location / address..... :	Sporton International Inc. 14Fl-2, No. 186, Jianyi Rd., Junghe City, Taipei Hsien, Taiwan
<input type="checkbox"/> Associated CB Test Laboratory	
Testing location / address..... :	
Tested by (name + signature) :	Eric Lai 
Approved by (+ signature) :	Hans Hsieh 
<input type="checkbox"/> Testing Procedure: TMP	
Tested by (name + signature) :	_____
Approved by (+ signature) :	_____
Testing location / address..... :	_____
<input type="checkbox"/> Testing Procedure: WMT	
Tested by (name + signature) :	_____
Witnessed by (+ signature)..... :	_____
Approved by (+ signature) :	_____
Testing location / address..... :	_____
<input type="checkbox"/> Testing Procedure: SMT	
Tested by (name + signature) :	_____
Approved by (+ signature) :	_____
Supervised by (+ signature) :	_____
Testing location / address..... :	_____
<input type="checkbox"/> Testing Procedure: RMT	
Tested by (name + signature) :	_____
Approved by (+ signature) :	_____
Supervised by (+ signature) :	_____
Testing location / address..... :	_____

Summary of Testing:

Unless otherwise indicated, all tests were conducted at Sporton International Inc. 14Fl-2, No. 186, Jianyi Rd., Junghe City, Taipei Hsien, Taiwan.

Tests performed (name of test and test clause)	Testing location / Comments
End Product Reference Page	
General Guidelines	
Maximum Output Voltage, Current, and Volt-Ampere Measurement (1.2.2.1)	
Input: Single-Phase (1.6.2)	
Energy Hazard Measurements (2.1.1.5, 2.1.2, 1.2.8.9)	
Limited Power Source Measurements (2.5)	
Protective Bonding II (2.6.3.4, 2.6.1)	
Humidity (2.9.1, 2.9.2, 5.2.2)	
Determination of Working Voltage; Voltage Measurement (2.10.2)	
Determination of Working Voltage; Hazardous Voltage (Circuit) Measurement (2.10.2)	
Transformer/Insulation Electric Strength (2.10.5.2, 2.9.5)	
Stability (4.1)	
Steady Force (4.2.1 - 4.2.4)	
Impact (4.2.5, 4.2.1)	
Loading (4.2.10)	
Heating (4.5.1, 1.4.12, 1.4.13)	
Ball Pressure (4.5.2, 4.5)	
Touch Current (Single-Phase; TN/TT System) (5.1, Annex D)	
Electric Strength (5.2.2)	
Component Failure (5.3.1, 5.3.4, 5.3.6)	
Transformer Abnormal Operation (5.3.3, 5.3.6b, Annex C.1)	
Overload of Operator Accessible Connector (5.3.6)	
Summary of Compliance with National Differences:	
AR, AT, AU, BE, CA, CH, CN, CZ, DE, DK, EU, FI, FR, GB, GR, HU, IL, IN, IT, JP, KE, KR, MY, NL, NO, NZ, PL, SE, SG, SI, SK, US	

Copy of Marking Plate

SC&T	C  US
MODEL: TPP016VPD	LISTED
16 Port Video Power Data Hub	FC 
INPUT: 110V~60Hz 5A	RoHS 
OUTPUT: 24V AC 8A	Made in Taiwan
I.T.E	E319240

Test item particulars :	
Equipment mobility	movable
Operating condition	continuous
Mains supply tolerance (%)	+6%, -10%
Tested for IT power systems	No
IT testing, phase-phase voltage (V)	N/A
Class of equipment	Class I (earthed)
Mass of equipment (kg)	< 18 (5.91 Kg)
Protection against ingress of water	IP X0
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(s) of receipt of test item	2008-02-13
Date(s) of Performance of tests	2008-02-13 to 2008-04-29
General remarks:	
<p>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.</p> <p>"(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a point is used as the decimal separator.</p> <p>Refer to the Cover Page For Test Report for a list of all Factory Locations.</p>	

GENERAL PRODUCT INFORMATION:
Report Summary
All applicable tests according to the referenced standard(s) have been carried out.
Product Description
- The unit provides with a internal circular transformer, electrical components mounted on PWB, RJ-45 connectors (Sixteen provided) and housed with metal enclosure.
Model Differences
N/A

Additional Information

- PoE may be considered a Network Environment 0 per IEC TR62101, and thus the interconnected ITE circuits may be considered SELV, because

(a) the function of this Production 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
(b) the installation instructions clearly state that the ITE is to be connected only to PoE networks without routing to the outside plant.

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

Technical Considerations

The product was submitted and tested for use at the maximum ambient temperature (T_{ma}) permitted by the manufacturer's specification of: 45 degree C

The means of connection to the mains supply is: Detachable power cord, Pluggable A

The product is intended for use on the following power systems: TN

The equipment disconnect device is considered to be: Appliance inlet

The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): All RJ-45 ports (PoE).

The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual

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

1	GENERAL		Pass
1.5	Components		Pass
1.5.1	General		Pass
	Comply with IEC 60950 or relevant component standard		Pass
1.5.2	Evaluation and testing of components	<p>- Certified components are used in accordance with their ratings, certifications and they comply with applicable parts of this Standard.</p> <p>- Components not certified are used in accordance with their ratings and they comply with applicable parts of IEC 60950-1 and the relevant component Standard.</p> <p>- Components, for which no relevant IEC Standard exist, have been tested under the conditions occurring in the equipment, using applicable parts of IEC 60950-1.</p>	Pass
1.5.3	Thermal controls	Thermal Controls comply with Annex K, see Annex K - Thermal Controls.	Pass
1.5.4	Transformers	See Annex C.	Pass
1.5.5	Interconnecting cables		Pass
1.5.6	Capacitors in primary circuits		N/A
1.5.7	Double insulation or reinforced insulation bridged by components		N/A
1.5.7.1	General		N/A
1.5.7.2	Bridging capacitors		N/A
1.5.7.3	Bridging resistors		N/A
1.5.7.4	Accessible parts		N/A
1.5.8	Components in equipment for IT power systems		N/A

1.6	Power interface		Pass
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IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.6.1	AC power distribution systems	AC power distribution systems are classified as TN.	Pass
1.6.2	Input current	- The steady state input current of the equipment did not exceed the RATED CURRENT by more than 10% under NORMAL LOAD. - (see appended table 1.6.2)	Pass
1.6.3	Voltage limit of hand-held equipment		N/A
1.6.4	Neutral conductor	Neutral is insulated from earth with basic insulation.	Pass

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

1.7	Marking and instructions		Pass
1.7.1	Power rating	Rating marking readily visible to operator.	Pass
	Rated voltage(s) or voltage range(s) (V)	110 Vac	Pass
	Symbol for nature of supply, for d.c. only		N/A
	Rated frequency or rated frequency range (Hz)	60 Hz	Pass
	Rated current (mA or A).....	5 A	Pass
	Manufacturer's name or trademark or identification mark	SMART CABLING & TRANSMISSION CORP/ E319240	Pass
	Type/model or type reference.....	16 Channel Video, Power, Data UTP Hub/ TPP016VPD	Pass
	Symbol for Class II equipment only		N/A
	Other symbols.....	Additional markings are used and are defined in the installation instructions.	Pass
	Certification marks	UL and C-UL Listing Mark at least, other certification marks may be provided when submitted for national approvals.	Pass
1.7.2	Safety instructions	Operating/safety instructions made available to the USER.	Pass
1.7.3	Short duty cycles		N/A
1.7.4	Supply voltage adjustment.....		N/A
1.7.5	Power outlets on the equipment		N/A
1.7.6	Fuse identification.....	No fuses are provided.	N/A
1.7.7	Wiring terminals		Pass
1.7.7.1	Protective earthing and bonding terminals	The earth terminal is marked with the standard earth symbol (60417-2-IEC-5019) near the terminal.	Pass
1.7.7.2	Terminal for a.c. mains supply conductors		N/A
1.7.7.3	Terminals for d.c. mains supply conductors		N/A
1.7.8	Controls and indicators		Pass
1.7.8.1	Identification, location and marking		N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.8.2	Colours..... :	Only functional indicators use color.	Pass
1.7.8.3	Symbols according to IEC 60417 :	The switch is not considered as disconnect device.	N/A
1.7.8.4	Markings using figures..... :		N/A
1.7.9	Isolation of multiple power sources :	There is only one connection to HAZARDOUS VOLTAGES.	N/A
1.7.10	IT power distribution systems		N/A
1.7.11	Thermostats and other regulating devices		N/A
1.7.12	Language..... :	Safety instructions/markings reviewed in English only.	-
1.7.13	Durability	All markings provided on UL Recognized Component labels suitable for surface they are applied upon and meet the durability test.	Pass
1.7.14	Removable parts	No removable part.	N/A
1.7.15	Replaceable batteries	There are no battery in the equipment.	N/A
	Language..... :		-
1.7.16	Operator access with a tool :	No OPERATOR ACCESS AREAS require the use of a tool.	N/A
1.7.17	Equipment for restricted access locations..... :		N/A

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

2	PROTECTION FROM HAZARDS		Pass
2.1	Protection from electric shock and energy hazards		Pass
2.1.1	Protection in operator access areas		Pass
2.1.1.1	Access to energized parts	No operator access to energized parts.	Pass
	Test by inspection..... :	See below	Pass
	Test with test finger..... :	The test finger was unable to contact bare hazardous parts, basic insulation, or ELV circuits.	Pass
	Test with test pin..... :	The test pin was unable to contact bare hazardous parts.	Pass
	Test with test probe	No TNV presents.	N/A
2.1.1.2	Battery compartments..... :		N/A
2.1.1.3	Access to ELV wiring		N/A
	Working voltage (V); minimum distance (mm) through insulation		-
2.1.1.4	Access to hazardous voltage circuit wiring		N/A
2.1.1.5	Energy hazards..... :	There is no energy hazard accessible to an OPERATOR. By Transformer Secondary Side, Maximum measured is 428.25 VA, 20.89 Vac; 20.5 A.	Pass
2.1.1.6	Manual controls	The equipment does not contain any knobs, handles, levers, or the like.	N/A
2.1.1.7	Discharge of capacitors in equipment	The capacitance between line to ground and neutral to ground of the input circuit is not exceed 0.1 uF, no measurement is required.	N/A
	Time-constant (s); measured voltage (V)		-
2.1.2	Protection in service access areas		N/A
2.1.3	Protection in restricted access locations		N/A

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

2.2	SELV circuits		Pass
2.2.1	General requirements		Pass
2.2.2	Voltages under normal conditions (V)	All accessible voltages are less than 42.4 V peak or 60 V dc and are classified as SELV.	Pass
2.2.3	Voltages under fault conditions (V).....	Under fault conditions voltages never exceed 71V peak and 120Vdc and do not exceed 42.4V peak or 60V dc for more than 0.2 sec.	Pass
2.2.3.1	Separation by double insulation or reinforced insulation (method 1)		Pass
2.2.3.2	Separation by earthed screen (method 2)		N/A
2.2.3.3	Protection by earthing of the SELV circuit (method 3)		N/A
2.2.4	Connection of SELV circuits to other circuits.....	SELV CIRCUITS are only connected to other SELV CIRCUITS.	Pass

2.3	TNV circuits		N/A
2.3.1	Limits	No TNV presents.	N/A
	Type of TNV circuits		-
2.3.2	Separation from other circuits and from accessible parts		N/A
	Insulation employed.....		-
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

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

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 capacitance (mF)		-
2.4.3	Connection of limited current circuits to other circuits		N/A

2.5	Limited power sources		Pass
	Inherently limited output		N/A
	Impedance limited output	See Id 07-01 for details.	Pass
	Overcurrent protective device limited output		N/A
	Regulating network limited output under normal operating and single fault condition		N/A
	Regulating network limited output under normal operating conditions and overcurrent protective device limited output under single fault condition		N/A
	Output voltage (V), output current (A), apparent power (VA):	For RJ-45 connectors (1) to (16): - Maximum measured 25.54 Vac, 1.2 A, 29.71 VA under normal condition at 3 pair model. See Id 7-01 for details.	-
	Current rating of overcurrent protective device (A):		-

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

2.6	Provisions for earthing and bonding		Pass
2.6.1	Protective earthing	Accessible parts are earthed.	Pass
2.6.2	Functional earthing	The FUNCTIONAL EARTHING has separated from parts at HAZARDOUS VOLTAGES by DOUBLE or REINFORCED INSULATION.	Pass
2.6.3	Protective earthing and protective bonding conductors		Pass
2.6.3.1	General		N/A
2.6.3.2	Size of protective earthing conductors	Power supply cord earthing conductor complies with Table 3B.	Pass
	Rated current (A), cross-sectional area (mm ²), AWG	5A, 18 AWG.	-
2.6.3.3	Size of protective bonding conductors	Protective bonding conductors evaluated based on 2.6.3.3.	Pass
	Rated current (A), cross-sectional area (mm ²), AWG	5A, 18 AWG.	-
2.6.3.4	Resistance (Ohm) of earthing conductors and their terminations, test current (A)	Test current is 40 A, and measured voltage drop is 0.32 V, resistance is 0.008 ohm. See Id 7-01 for details.	Pass
2.6.3.5	Colour of insulation	Protective bonding conductors are green with yellow stripe.	Pass
2.6.4	Terminals	Earthing used only for parts not likely to carry fault currents intended to operate overcurrent protective devices. Terminal comply with 3.3.	Pass
2.6.4.1	General		Pass
2.6.4.2	Protective earthing and bonding terminals	Terminals comply with Table 3E.	Pass
	Rated current (A), type and nominal thread diameter (mm)	Rated current 5A, Screw type 3.5mm.	-
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	Provide a single wiring terminal in equipment with an appliance inlet.	Pass
2.6.5	Integrity of protective earthing		Pass
2.6.5.1	Interconnection of equipment		N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	No switches or fuses in earthing conductors.	Pass
2.6.5.3	Disconnection of protective earth	Disconnection of the protective earth at one assembly removes connection of HAZARDOUS VOLTAGES from the other assemblies at the same time.	Pass
2.6.5.4	Parts that can be removed by an operator	Protective earth required makes earlier and breaks later than the supply connectors.	Pass
2.6.5.5	Parts removed during servicing	Connections to protective earthing cannot be removed unless hazardous voltage is removed from the part simultaneously.	Pass
2.6.5.6	Corrosion resistance	No risk of corrosion. Complies with Annex J.	Pass
2.6.5.7	Screws for protective bonding	At least two screws used.	Pass
2.6.5.8	Reliance on telecommunication network or cable distribution system		N/A

2.7	Overcurrent and earth fault protection in primary circuits		Pass
2.7.1	Basic requirements		Pass
	Instructions when protection relies on building installation	Pluggable Type A.	Pass
2.7.2	Faults not covered in 5.3	Protection from faults not covered in 5.3 are provided by installation.	Pass
2.7.3	Short-circuit backup protection	The building installation is considered as providing short-circuit backup protection.	Pass
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

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

2.8	Safety interlocks		N/A
2.8.1	General principles		N/A
2.8.2	Protection requirements		N/A
2.8.3	Inadvertent reactivation		N/A
2.8.4	Fail-safe operation		N/A
2.8.5	Moving parts		N/A
2.8.6	Overriding		N/A
2.8.7	Switches and relays		N/A
2.8.7.1	Contact gaps (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		Pass
2.9.1	Properties of insulating materials	Electric Strength Test of 5.2.2 was performed after the Humidity Treatment of 2.9.2.	Pass
2.9.2	Humidity conditioning	The humidity treatment was conducted for 48 hrs.	Pass
	Humidity (%) :	93%	-
	Temperature (°C)..... :	25 degree C	-
2.9.3	Grade of insulation	FUNCTIONAL, BASIC, SUPPLEMENTARY and REINFORCED or DOUBLE INSULATION applicable per Table 2G.	Pass

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

2.10	Clearances, creepage distances and distances through insulation		Pass
2.10.1	General	Pollution Degree 2 applicable.	Pass
2.10.2	Determination of working voltage	Maximum 160 Vpk, 112 Vrms.	Pass
2.10.3	Clearances	(see appended table 2.10.3 and 2.10.4).	Pass
2.10.3.1	General		Pass
2.10.3.2	Clearances in primary circuit	(see appended table 2.10.3 and 2.10.4)	Pass
2.10.3.3	Clearances in secondary circuits	See 5.3.4.	Pass
2.10.3.4	Measurement of transient voltage levels	No transient voltage across the clearance lower than due or normal.	N/A
2.10.4	Creepage distances	(See Tables 2.10.3 and 2.10.4)	Pass
	CTI tests..... :	Material Group IIIb assumed unless otherwise indicated. 100 <= CTI < 175	-
2.10.5	Solid insulation		Pass
2.10.5.1	Minimum distance through insulation	(see appended table 2.10.5)	Pass
2.10.5.2	Thin sheet material		Pass
	Number of layers (pcs) :	For Circular Transformer, one layer insulation sheet (width 10 mm) provided, and the film overlap greater than 6mm. Total minimum two layers insulation sheets between primary and secondary.	-
	Electric strength test :	(see appended table 5.2)	-
2.10.5.3	Printed boards		N/A
	Distance through insulation		N/A
	Electric strength test for thin sheet insulating material :		-
	Number of layers (pcs) :		N/A
2.10.5.4	Wound components		N/A
	Number of layers (pcs) :		N/A
	Two wires in contact inside wound component; angle between 45° and 90° :		N/A
2.10.6	Coated printed boards		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.10.6.1	General		N/A
2.10.6.2	Sample preparation and preliminary inspection		N/A
2.10.6.3	Thermal cycling		N/A
2.10.6.4	Thermal ageing (°C)		N/A
2.10.6.5	Electric strength test		-
2.10.6.6	Abrasion resistance test		N/A
	Electric strength test		-
2.10.7	Enclosed and sealed parts		N/A
	Temperature T1=T2 = Tma - Tamb +10K (°C).....		N/A
2.10.8	Spacings filled by insulating compound.....		N/A
	Electric strength test		-
2.10.9	Component external terminations		N/A
2.10.10	Insulation with varying dimensions		N/A

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

3	WIRING, CONNECTIONS AND SUPPLY		Pass
3.1	General		Pass
3.1.1	Current rating and overcurrent protection	All internal wires and INTERCONNECTING CABLES possess adequate cross-sectional areas for their intended application and all internal wirings are adequately insulated.	Pass
3.1.2	Protection against mechanical damage	The wires are well routed away from sharp edges, etc. and are adequately fixed to prevent excessive strain on wire and terminals.	Pass
3.1.3	Securing of internal wiring	Internal wiring routed, supported, clamped or secured in a manner that excessive strain on wire and on terminal connections, loosening of terminal connections and damage of conductor insulation are unlikely.	Pass
3.1.4	Insulation of conductors	The insulation of the individual conductors is suitable for the application and the working voltage.	Pass
3.1.5	Beads and ceramic insulators		N/A
3.1.6	Screws for electrical contact pressure	All electrical screw connections are by metal screw with more than 2 threads into a metal plate.	Pass
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	Pass
3.1.8	Self-tapping and spaced thread screws	Thread-cutting or space thread screws are not used for electrical connections. Machine screws only.	Pass
3.1.9	Termination of conductors		Pass
	10 N pull test	With applying a pull force of 10 N, the conductor does not break away or pivot on its terminal to the extent that required CLEARANCE or	Pass

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

		CREEPAGE DISTANCES are reduced below the values required in 2.10 and PROTECTIVE EARTHING continuity in 2.6.	
3.1.10	Sleeving on wiring	Sleeving is not used as supplementary insulation.	N/A

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

3.2	Connection to an a.c. mains supply or a d.c. mains supply		Pass
3.2.1	Means of connection	The unit is provided with an appliance inlet.	Pass
3.2.1.1	Connection to an a.c. mains supply	The unit employs an appliance inlet for connection of a DETACHABLE POWER SUPPLY CORD.	Pass
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 (mm) of cable and conduits..... :		-
3.2.4	Appliance inlets	Approved appliance inlet complying with IEC 60320, so placed that the connector can be inserted without difficulty and after insertion of the connector, the equipment is not supported by the connector for any position of normal use on a flat surface.	Pass
3.2.5	Power supply cords		Pass
3.2.5.1	AC power supply cords		Pass
	Type..... :	SVT or SPT-2 insulated	-
	Rated current (A), cross-sectional area (mm ²), AWG..... :	5 A, 18 AWG	-
3.2.5.2	DC power supply cords		N/A
3.2.6	Cord anchorages and strain relief	The equipment does not use a non-detachable power supply cord	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	The equipment does not use a non-detachable power supply cord	N/A
	D (mm); test mass (g)..... :		-
	Radius of curvature of cord (mm)..... :		-

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

3.2.9	Supply wiring space	The equipment is not permanently connected or provided with a non-detachable power supply cord	N/A
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3.3	Wiring terminals for connection of external conductors		N/A
3.3.1	Wiring terminals	This appliance is neither the PERMANENTLY CONNECTED EQUIPMENT nor provided with ordinary NON-DETACHABLE POWER SUPPLY CORDS.	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 (mm ²)		-
3.3.5	Wiring terminal sizes		N/A
	Rated current (A), type and nominal thread diameter (mm)		-
3.3.6	Wiring terminals design		N/A
3.3.7	Grouping of wiring terminals		N/A
3.3.8	Stranded wire		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

3.4	Disconnection from the mains supply		Pass
3.4.1	General requirement		Pass
3.4.2	Disconnect devices	The equipment is provided with an appliance coupler.	Pass
3.4.3	Permanently connected equipment		N/A
3.4.4	Parts which remain energized	No accessible parts on the supply side of the disconnect device.	Pass
3.4.5	Switches in flexible cords	No isolating switches fitted in flexible cords.	Pass
3.4.6	Single-phase equipment and d.c. equipment	Disconnect device disconnects all poles simultaneously.	Pass
3.4.7	Three-phase equipment		N/A
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices	The plug on the power cord is not considered the disconnect device.	N/A
3.4.10	Interconnected equipment	No interconnection of hazardous voltages or energy levels.	N/A
3.4.11	Multiple power sources		N/A

3.5	Interconnection of equipment		Pass
3.5.1	General requirements	Interconnection circuit did continued conformance to the requirements of SELV CIRCUITS.	Pass
3.5.2	Types of interconnection circuits	Interconnection circuits are SELV CIRCUITS.	Pass
3.5.3	ELV circuits as interconnection circuits		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

4	PHYSICAL REQUIREMENTS		Pass
4.1	Stability		Pass
	Angle of 10°	Unit does not overbalance at 10o.	Pass
	Test: force (N)..... :		N/A

4.2	Mechanical strength		Pass
4.2.1	General	After tests of 4.2.2 to 4.2.7, the sample is continuing to comply with the requirements of 2.1.1, 2.6.1 and 2.10.	Pass
4.2.2	Steady force test, 10 N	The required DISTANCES does not reduced below the values required in 2.10.	Pass
4.2.3	Steady force test, 30 N	The equipment does not have any internal enclosures.	N/A
4.2.4	Steady force test, 250 N	During the application of the test force, clearances behind earthed or unearthed conductive enclosures were not reduced to a level that would result in an energy hazard.	Pass
4.2.5	Impact test		Pass
	Fall test		Pass
	Swing test		N/A
4.2.6	Drop test		N/A
4.2.7	Stress relief test	External ENCLOSURE is made of metal.	N/A
4.2.8	Cathode ray tubes		N/A
	Picture tube separately certified :		N/A
4.2.9	High pressure lamps		N/A
4.2.10	Wall or ceiling mounted equipment; force (N) :	Mounting means withstands Forced 17.73 Kg, which was three times the weight of the equipment.	Pass

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Clause	Requirement + Test	Result - Remark	Verdict

4.3	Design and construction		Pass
4.3.1	Edges and corners	All edges and corners judged to be sufficiently well rounded so as not to constitute a hazard.	Pass
4.3.2	Handles and manual controls; force (N)		N/A
4.3.3	Adjustable controls		N/A
4.3.4	Securing of parts	Electrical and mechanical connections can be expected to withstand usual mechanical stress.	Pass
4.3.5	Connection of plugs and sockets	The equipment does not have any interchangeable plugs/sockets.	Pass
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	N/A
	Dimensions (mm) of mains plug for direct plug-in . .		N/A
	Torque and pull test of mains plug for direct plug-in; torque (Nm); pull (N)		N/A
4.3.7	Heating elements in earthed equipment		N/A
4.3.8	Batteries		N/A
4.3.9	Oil and grease		N/A
4.3.10	Dust, powders, liquids and gases		N/A
4.3.11	Containers for liquids or gases		N/A
4.3.12	Flammable liquids		N/A
	Quantity of liquid (l)		N/A
	Flash point (°C)		N/A
4.3.13	Radiation; type of radiation		Pass
4.3.13.1	General		Pass
4.3.13.2	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

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Clause	Requirement + Test	Result - Remark	Verdict

	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	Laser (including LEDs)	This product contains only visible indicator LEDs (Class 1) operating in the range of 400 - 700 nm wavelength. No IEC60825-1 evaluation was deemed necessary. Additional review may be required at the discretion of the accepting NCB.	Pass
	Laser class.....	This product contains only visible indicator LEDs (Class 1) operating in the range of 400 - 700 nm wavelength. No IEC60825-1 evaluation was deemed necessary. Additional review may be required at the discretion of the accepting NCB.	-
4.3.13.6	Other types		N/A

4.4	Protection against hazardous moving parts		N/A
4.4.1	General	No hazardous moving part presents.	N/A
4.4.2	Protection in operator access areas		N/A
4.4.3	Protection in restricted access locations		N/A
4.4.4	Protection in service access areas		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

4.5	Thermal requirements		Pass
4.5.1	Maximum temperatures	The equipment and its components did not attain excessive temperatures during normal operation, see table 4.5 for details.	Pass
	Normal load condition per Annex L :	Operated in the most unfavorable way of operation given in the operating instructions until steady conditions established.	Pass
4.5.2	Resistance to abnormal heat	See table 4.5.2.	Pass

4.6	Openings in enclosures		Pass
4.6.1	Top and side openings	No openings.	Pass
	Dimensions (mm)..... :	No openings.	-
4.6.2	Bottoms of fire enclosures	No openings.	Pass
	Construction of the bottom..... :	No openings.	-
4.6.3	Doors or covers in fire enclosures		N/A
4.6.4	Openings in transportable equipment	Unit not transportable.	N/A
4.6.5	Adhesives for constructional purposes	Adhesives not used for securement of internal barriers or screens.	N/A
	Conditioning temperature (°C)/time (weeks) :		-

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Clause	Requirement + Test	Result - Remark	Verdict

4.7	Resistance to fire		Pass
4.7.1	Reducing the risk of ignition and spread of flame	Method 1.	Pass
	Method 1, selection and application of components wiring and materials	Selection and application of components, wiring and materials, which reduce the possibility of ignition and spread of flame by the use of FIRE ENCLOSURE. See Table 4.7.	Pass
	Method 2, application of all of simulated fault condition tests		N/A
4.7.2	Conditions for a fire enclosure		Pass
4.7.2.1	Parts requiring a fire enclosure	A fire enclosure covers all parts.	Pass
4.7.2.2	Parts not requiring a fire enclosure		N/A
4.7.3	Materials		Pass
4.7.3.1	General	The propagation of fire is minimized through satisfying the requirement of constructions and materials.	Pass
4.7.3.2	Materials for fire enclosures	The FIRE ENCLOSURE is made of metal.	Pass
4.7.3.3	Materials for components and other parts outside fire enclosures	Connectors are made of materials of Class V-2 minimum.	Pass
4.7.3.4	Materials for components and other parts inside fire enclosures	- All internal materials are min. V-2 or are mounted on a PWB min. V-1; - All Internal wiring is insulated with PVC, TFE, PTFE, FEP, neoprene, polyimide or marked VW-1 or FT-1 or better.	Pass
4.7.3.5	Materials for air filter assemblies		N/A
4.7.3.6	Materials used in high-voltage components		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		Pass
5.1	Touch current and protective conductor current		Pass
5.1.1	General		Pass
5.1.2	Equipment under test (EUT)	Only one connection to AC MAINS SUPPLY.	Pass
5.1.3	Test circuit	Single phase equipment intended only for connection to star TN or TT system.	Pass
5.1.4	Application of measuring instrument	Using the measuring instrument specified in annex D.1.	Pass
5.1.5	Test procedure		Pass
5.1.6	Test measurements		Pass
	Test voltage (V)	116.6 V ac, 60 Hz.	-
	Measured touch current (mA)	- For SELV Connector: Max. 0.055 mA rms measured. - For Enclosure (Earthed): Max. 0.23 mA rms measured. See Id 7-02 for details.	-
	Max. allowed touch current (mA)	- For SELV Connector: 0.25 mA rms; - For Enclosure (Earthed): 3.5 mA rms.	-
	Measured protective conductor current (mA)		-
	Max. allowed protective conductor current (mA) ...		-
5.1.7	Equipment with touch current exceeding 3.5 mA ..		N/A
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks	No TNV presents.	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system		N/A
	Test voltage (V)		-
	Measured touch current (mA)		-
	Max. allowed touch current (mA)		-
5.1.8.2	Summation of touch currents from telecommunication networks		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

5.2	Electric strength		Pass
5.2.1	General	Based on the electric strength test the use of the insulating materials within the equipment is satisfactory.	Pass
5.2.2	Test procedure	No insulation breakdown detected during the test. See table 5.2.	Pass

5.3	Abnormal operating and fault conditions		Pass
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	Pass
5.3.2	Motors		N/A
5.3.3	Transformers		Pass
5.3.4	Functional insulation	Functional insulation complies with the requirements (c)	Pass
5.3.5	Electromechanical components	The equipment does not have any electromechanical components in the secondary.	N/A
5.3.6	Simulation of faults	Transformer temperatures measured for compliance with Annex C during test.	Pass
5.3.7	Unattended equipment	Equipment is not intended for unattended use.	N/A
5.3.8	Compliance criteria for abnormal operating and fault conditions	No fire, emission of molten metal, deformation, excessive temperature rises or insulation breakdown was detected during these tests.	Pass

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Clause	Requirement + Test	Result - Remark	Verdict

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

6.2	Protection of equipment users from overvoltages on telecommunication networks		N/A
6.2.1	Separation requirements		N/A
6.2.2	Electric strength test procedure		N/A
6.2.2.1	Impulse test		N/A
6.2.2.2	Steady-state test		N/A
6.2.2.3	Compliance criteria		N/A

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

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Clause	Requirement + Test	Result - Remark	Verdict

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		N/A
7.1	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		N/A
7.2	Protection of equipment users from overvoltages on the cable distribution system		N/A
7.3	Insulation between primary circuits and cable distribution systems		N/A
7.3.1	General		N/A
7.3.2	Voltage surge test		N/A
7.3.3	Impulse test		N/A

A	Annex A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		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		N/A
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)..... :		-

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Clause	Requirement + Test	Result - Remark	Verdict

A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)		N/A
A.2.1	Samples, material		-
	Wall thickness (mm)		-
A.2.2	Conditioning of samples		N/A
A.2.3	Mounting of samples		N/A
A.2.4	Test flame		N/A
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 60695-2-2, cl. 4, 8		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

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Clause	Requirement + Test	Result - Remark	Verdict

B	Annex B, MOTOR TESTS UNDER ABNORMAL CONDITIONS(see 4.7.2.2 and 5.3.2)		N/A
B.1	General requirements		N/A
	Position		-
	Manufacturer.....		-
	Type		-
	Rated values		-
B.2	Test conditions		N/A
B.3	Maximum temperatures		N/A
B.4	Running overload test		N/A
B.5	Locked-rotor overload test		N/A
	Test duration (days).....		-
	Electric strength test: test voltage (V).....		-
B.6	Running overload test for d.c. motors in secondary circuits		N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits		N/A
B.7.1	Test procedure		N/A
B.7.2	Alternative test procedure; test time (h).....		N/A
B.7.3	Electric strength test		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).....		-

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Clause	Requirement + Test	Result - Remark	Verdict

C	Annex C, TRANSFORMERS (see 1.5.4 and 5.3.3)		Pass
	Position	Circular Transformer	-
	Manufacturer.....	--	-
	Type.....	Class A	-
	Rated values.....	Input 110Vac/ 60Hz , 5A.	-
	Method of protection	Thermal Links	-
C.1	Overload test		Pass
C.2	Insulation		Pass
	Protection from displacement of windings.....		N/A

D	Annex D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS		N/A
D.1	Measuring instrument		N/A
D.2	Alternative measuring instrument		N/A

E	Annex E, TEMPERATURE RISE OF A WINDING		N/A
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F	Annex F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10)		Pass
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Clause	Requirement + Test	Result - Remark	Verdict

G	Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		N/A
G.1	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	DC mains supply		N/A
G.3	Determination of telecommunication network transient voltage (V) :..... :		N/A
G.4	Determination of required withstand voltage (V) ... :		N/A
G.5	Measurement of transient levels (V)..... :		N/A
G.6	Determination of minimum clearances :		N/A

H	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)		Pass
	Metal used :	Complied	-

K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.7)		Pass
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		Pass
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 4.5.1)		Pass
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		Pass

M	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	Ringling signal		N/A
M.3.1.1	Frequency (Hz)		-
M.3.1.2	Voltage (V)		-
M.3.1.3	Cadence; time (s), voltage (V)		-
M.3.1.4	Single fault current (mA)		-
M.3.2	Tripping device and monitoring voltage		N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
M.3.2.2	Tripping device		N/A
M.3.2.3	Monitoring voltage (V)		N/A

N	Annex N, IMPULSE TEST GENERATORS (see 2.10.3.4, 6.2.2.1, 7.3.2 and clause G.5)		N/A
N.1	ITU-T impulse test generators		N/A
N.2	IEC 60065 impulse test generator		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

P	Annex P, NORMATIVE REFERENCES		Pass
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Q	Annex Q, BIBLIOGRAPHY		Pass
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R	Annex R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		N/A
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R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6)		N/A
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R.2	Reduced clearances (see 2.10.3)		N/A
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S	Annex S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		N/A
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S.1	Test equipment		N/A
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S.2	Test procedure		N/A
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S.3	Examples of waveforms during impulse testing		N/A
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T	Annex T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		N/A
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U	Annex U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		N/A
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Clause	Requirement + Test	Result - Remark	Verdict

1.5.1	TABLE: list of critical components					Pass
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾	
01. Power supply cord (Optional)	--	--	Detachable. Type SVT or SPT-2, minimum 125 V, 6 A minimum, 18 AWG minimum, with one end connected to NEMA 5-15P, with other end connected to appliance coupler. Maximum 4.5 m long, minimum 1.5 m long.	UL62, UL498	UL, --	
02. EMI Filter	Yunpen Electronic Co., Ltd	YO03T1	125/250 Vac, 3A, 85 degree C.	UL1283, VDE 0565	UL, VDE	
02a. EMI Filter (Alternate)	Yunpen Electronic Co., Ltd	YO08T1	125/250 Vac, 8A, 85 degree C.	UL1283, VDE 0565	UL, VDE	
03. Switch	Approach Technology Inc	SS-001-SW	15A, 125 Vac, 75 degree C.	UL1054, EN 60934	UL, TUV	
04. Terminal Blocks	Ascend Electrical Ltd	PA9F	Between Primary and Transformer. 600V, 30A, 75 degree C.	UL1059	UL, --	
05. Enclosure	--	--	Metallic, secured together by screws. Overall 435.0 by 288.0 by 43.0 mm, minimum 1.0mm thickness.	--	--, --	
06. Circular Transformer	LUNG HO	770000002	Class A. See Id 4-03 for details.	--	--, --	
06-1. Circular Transformer - Core	--	--	Toroidal; overall 125.0 mm OD by 63.0 mm ID by 20.0 mm thick.	--	--, --	
06-2. Circular Transformer - Coil (Primary)	--	--	Copper magnet wire, minimum 130 degree C.	UL1446	UL, --	

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Clause	Requirement + Test		Result - Remark	Verdict	
			See Id 4-03 for details.		
06-3. Circular Transformer - Coil (Secondary)	--	--	Copper magnet wire, minimum 130 degree C. See Id 4-03 for details.	UL1446	UL, --
06-4. Circular Transformer - Adhesive Tape	Chyun Yih Tape Co., Ltd	P2XXF(b)*	130 degree C. Provided between Primary Wiring and Secondary Wiring and provided at outside to fix coil and insulation sheet locations.	UL510	UL, --
06-5. Circular Transformer - Insulation sheet	Dupont Teijin Films U S L P	A, AP, J, EL21, MO21	VTM-2, 105 degree C. Width 10 mm minimum and the film overlap greater than 6 mm and fixed by adhesive tape. Provided between Primary Wiring and Secondary Wiring and provided at outside.	UL94, UL746C	UL, --
06-6. Circular Transformer - Thermal Links	Anzen Dengu Co., Ltd	T13F	2A/250V, 133 degree C.	UL60691	UL, --
06-7. Circular Transformer - Primary Lead Wire	Wateh Electric Wires & Cables	Style 1617	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; minimum 600 V, 80 degree C. 0.4 mm thick minimum.	UL758.	UL, --
06-8. Circular Transformer - Secondary Lead	Wateh Electric Wires & Cables	Style 1015	FEP, PTFE, PVC, TFE, neoprene,	UL758.	UL, --

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Clause	Requirement + Test		Result - Remark	Verdict	
Wire			polyimide or marked VW-1; minimum 600 V, 80 degree C.		
06-9. Circular Transformer - Mounting Plate	--	--	Metal Plate.	--	--, --
06-10. Circular Transformer - Silicon rubber	--	--	V-2 minimum.	UL94, UL746C	UL, --
07. Polyswitch (P1 to P16) (provided for RJ-45 ports)	Polytronics Technology Corp.	SMD2920P100T	33 Vdc, I _h =1.1 A, I _t =2.2A.	UL1434, EN 60730-1	UL, TUV
08. Printed wiring board	--	--	V-1, 105 degree C minimum.	UL796	UL, --
1) an asterisk indicates a mark which assures the agreed level of surveillance					

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

1.6.2	TABLE: electrical data (in normal conditions)						Pass
fuse #	I rated (A)	U (V)	P (W)	I (mA)	I fuse (mA)	condition/status	
--	--	99V/60Hz	168	1696	1696	Maximum normal load.	
--	5	110V/60Hz	207	1880	1880	Maximum normal load.	
--	--	116.6V/60 Hz	233	1990	1990	Maximum normal load.	
supplementary information:							
- Maximum normal load: Each RJ-45 port loaded to 0.5 A (total 8A) and each Video port connected to one camera machine (sixteen provided).							

2.10.3 and 2.10.4	TABLE: clearance and creepage distance measurements						Pass
clearance cl and creepage distance dcr at/of:	Up (V)	U r.m.s. (V)	required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)	
Primary Line to Secondary Pin (3)	160	112	2.0	6.0	3.0	6.0	
Primary Line to Secondary Pin (4)	160	112	2.0	6.0	3.0	6.0	
Primary Neutral to Secondary Pin (3)	160	112	2.0	6.0	3.0	6.0	
Primary Neutral to Secondary Pin (4)	160	112	2.0	6.0	3.0	6.0	
supplementary information:							
- The CTI rating of PWB is material group IIIb (Cl. 2.10.4). - The working voltage of the circular transformer is 160 Vpk, 112 Vrms. - Separation Method between SELV and hazard circuit (Cl. 2.2.3.1) by double or reinforced insulation (Method 1). - For Circular Transformer, one layer insulation sheet (width 10 mm) provided, and the film overlap greater than 6mm. Total minimum two layers insulation sheets between primary and secondary. - See Id 4-03 for Pin assignment for circular transformer.							

2.10.5	TABLE: distance through insulation measurements				Pass
distance through insulation di at/of:	Up (V)	test voltage (V)	required di (mm)	di (mm)	
Insulation sheet of Circular Transformer, type A, AP, J, EL21, MO21 by DUPONT TEIJIN FILMS U S L P	160	2000 Vac	--	--	
Insulation between Primary Wiring and Second Wiring	160	2000 Vac	0.4	0.4 mm minimum	
supplementary information:					
Maximum Working Voltage is 160 Vpk.					

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

4.5	TABLE: temperature rise measurements					Pass	
	test voltage (V)	See below	See below	--	--	--	—
	t1 (°C).....	--	--	--	--	--	—
	t2 (°C).....	--	--	--	--	--	—
maximum temperature T of part/at:		T (°C)				allowed Tmax (°C)	
Input voltage (V):		99Vac/60Hz	116.6Vac/60Hz	--	--	--	--
Ambient Temperature		45.0 degree C	45.0 degree C	--	--	--	--
AC Inlet		56.3	56.6	--	--	--	70
Switch body		56.3	56.8	--	--	--	75
Primary terminal blocks		58.4	59.1	--	--	--	75
Primary coil		81.6	83.1	--	--	--	90
Secondary coil		80.6	82.0	--	--	--	90
PWB near R1 (TPP016VPD_BNC)		56.1	56.7	--	--	--	105
PWB near P5 (TPP016VPD_RJ)		70.7	78.2	--	--	--	105
Enclosure outside near transformer		56.9	57.8	--	--	--	70
temperature T of winding:		R ₁ (Ω)	R ₂ (Ω)	T (°C)	allowed Tmax (°C)	insulation class	
--		--	--	--	--	--	
supplementary information:							
-- The temperatures were measured under worst case normal mode defined in 1.2.2.1 and described in 1.6.2 at voltages as described in 1.4.5							
-- Without specified ambient temperature in users manual, therefore the ambient temperature assumed as 45 degree C, the maximum temperature as follows:							
- Winding components: (thermal couple used)							
maximum temp. of (Circular Transformer with class A insulation): Tmax = 100 - 10 = 90 degree C							
- Components with:							
maximum temp. of (PWB) Tmax = 105 degree C							
maximum temp. of (Accessible Metal Part) Tmax = 70 degree C							
maximum temp. of (AC Inlet) Tmax = 70 degree C							
maximum temp. of (Power Switch) Tmax = 75 degree C							
maximum temp. of (Terminal block) Tmax = 75 degree C							

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

4.5.2	TABLE: ball pressure test of thermoplastics		Pass
	allowed impression diameter (mm)..... :	2.00	—
part		test temperature (°C)	impression diameter (mm)
Terminal Blocks, type PA9F by Ascend Electrical Ltd		125	1.19
supplementary information:			
--			

4.7	TABLE: resistance to fire			Pass
part	manufacturer of material	type of material	thickness(mm)	flammability class
Enclosure	--	Metal	1.0	--
PWB	--	--	--	V-1 Minimum
supplementary information:				
N/A				

5.2	TABLE: electric strength tests, impulse tests and voltage surge tests		Pass
test voltage applied between:		test voltage (V) a.c./d.c.	breakdown Yes / No
Primary to SELV		2000 Vac	No
Primary to Earthed		1000 Vac	No
After Impact Test.		--	--
Primary to SELV		2000 Vac	No
Primary to Earthed		1000 Vac	No
supplementary information:			
<p>- All electrical strength tests duration last at 60 seconds.</p> <p>- All applied test voltage for electrical strength (in Table 5B) are based on the working voltage measured on Circular transformer, 112 Vrms, 160 Vpk.</p> <p>- Unit: Electrical Strength test is conducted while the equipment is still a well-heated condition immediately following the test in 4.5.1.</p> <p>- Transformer: Electrical Strength test is tested separately outside the equipment.</p> <p>- The sheet material for SUPPLEMENTARY or REINFORCED INSULATION, electrical strength test is separately outside the equipment room temperature.</p>			

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

5.3	TABLE: fault condition tests						Pass
	ambient temperature (°C)					See below	—
	model/type of power supply					Circular Transformer	—
	manufacturer of power supply					--	—
	rated markings of power supply					I/P: 100 Vac, 60 Hz, 5 A; O/P: 24 Vac / 8 A.	—
component No.	fault	test voltage (V)	test time	fuse No.	fuse current (A)	result	
--	--	--	--	--	--	Overload of Operator Accessible Connector Test	
RJ-45 (1) ~ (16) pin 1,3,5,7,8	Overload	110Vac/60Hz	--	--	--	Open circuit voltage measured 0 V.	
RJ45 (1) ~ (16) pin 2,4,6	Overload	110Vac/60Hz	1hr	--	--	Open circuit voltage measured 27.9 V, maximum available current measured 1000 mA, NB, NC, NT.	
Video and Channel port (1) ~ (16) pin 1	Overload	110Vac/60Hz	--	--	--	Open circuit voltage measured 0 V.	
Data port pin 1,2	Overload	110Vac/60Hz	--	--	--	Open circuit voltage measured 0 V.	
--	--	--	--	--	--	Transformer Abnormal Operation Test	
Transformer	Overload	110Vac/60Hz	12hr	--	1.88- 2.74- 0	NB.NC.NT. CD=Terminal links. No hazardous. Maximum temperature: Primary coil=115.4 degree C, Secondary coil=119.6 degree C, Ambient=23.7 degree C	
Transformer	Short	110Vac/60Hz	2.5hr	--	19.4 - 0	NB.NC.NT. CD=Terminal links. No hazardous. Maximum temperature: Primary coil=28.0 degree C, Secondary coil=26.5 degree C, Ambient=23.8 degree C	
supplementary information:							
The following Electric Strength (ES) potentials were applied after fault condition were indicated for one minute: - A. Primary to PE -> 1000 V ac. - B. Primary to SELV -> 2000 V ac. Comments Key: - IP - Internal protection operated (list component) - CT - Constant temperatures were obtained - CD - Components damaged (list damaged components) - NB - No indication of dielectric breakdown - NC - Cheesecloth remained intact - NT - Tissue paper remained intact - B - Circuit measured less 12.5 mA. - C - Circuit measured 0 V.							

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

Enclosure
National Differences

Argentina*
Australia / New Zealand
Austria**
Belgium**
China*
Czech Republic**
Denmark
Finland
France**
Germany
Greece**
Group
Hungary*
India*
Israel*
Italy*
Japan*
Kenya*
Korea
Malaysia*
Netherlands**
Norway
Poland*
Singapore*
Slovakia**
Slovenia*
Sweden
Switzerland**
USA / Canada
United Kingdom

* No National Differences Declared

** Only Group Differences

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict

Australia / New Zealand - Differences to IEC 60950-1:2001, First Edition																													
1.2.12.11	<p>POTENTIAL IGNITION SOURCE Possible fault which can starts 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 15VA. 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.</p>		N/A																										
1.5.1	Add to the first paragraph: "or the relevant Australian / New Zealand Standard".		Pass																										
1.5.2	Add to the first and third dashed items after the words "IEC Component Standard": "or the relevant Australian / New Zealand Standard".		Pass																										
1.6.1	Add: AC power distribution systems classified as TT or IT are not allowed		Pass																										
1.7.12	Add to the first paragraph: All safety instructions and safety markings shall be in English.	Safety instructions/markings reviewed in English only. Other languages will be provided when submitted for national approval.	Pass																										
3.2.5	<p>Substitute for Table 3B: Sizes of Conductors</p> <table border="1"> <thead> <tr> <th>Rated Current of Equipment (A)</th> <th>Nominal cross-sectional area (mm²)</th> </tr> </thead> <tbody> <tr> <td>0.2 <= 3</td> <td>0.5*</td> </tr> <tr> <td>3 <= 7.5</td> <td>0.75</td> </tr> <tr> <td>7.5 <= 10</td> <td>(0.75) 1.00</td> </tr> <tr> <td>10 <= 16</td> <td>(1,0) 1.5</td> </tr> <tr> <td>16 <= 25</td> <td>2.5</td> </tr> <tr> <td>25 <= 32</td> <td>4</td> </tr> <tr> <td>32 <= 40</td> <td>6</td> </tr> <tr> <td>40 <= 63</td> <td>10</td> </tr> <tr> <td>63 <= 80</td> <td>16</td> </tr> <tr> <td>80 <= 100</td> <td>25</td> </tr> <tr> <td>100 <= 125</td> <td>35</td> </tr> <tr> <td>125 <= 160</td> <td>50</td> </tr> </tbody> </table>	Rated Current of Equipment (A)	Nominal cross-sectional area (mm ²)	0.2 <= 3	0.5*	3 <= 7.5	0.75	7.5 <= 10	(0.75) 1.00	10 <= 16	(1,0) 1.5	16 <= 25	2.5	25 <= 32	4	32 <= 40	6	40 <= 63	10	63 <= 80	16	80 <= 100	25	100 <= 125	35	125 <= 160	50	<p>- Power supply cord, suitable for the application and subject to country's national code and regulations is to be provided by the manufacturer or distributor. - The suitability of application is determined by the country's local Certification Body.</p>	N/A
Rated Current of Equipment (A)	Nominal cross-sectional area (mm ²)																												
0.2 <= 3	0.5*																												
3 <= 7.5	0.75																												
7.5 <= 10	(0.75) 1.00																												
10 <= 16	(1,0) 1.5																												
16 <= 25	2.5																												
25 <= 32	4																												
32 <= 40	6																												
40 <= 63	10																												
63 <= 80	16																												
80 <= 100	25																												
100 <= 125	35																												
125 <= 160	50																												

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	160 <= 190 70 190 <= 230 95 230 <= 260 120 260 <= 300 150 300 <= 340 185 340 <= 400 240 400 <= 460 300 ----- * This nominal cross-sectional area is only allowed for Class II appliances if the length of the power supply cord, measured between the point where the cord or cord guard, enters the appliance, and the entry to the plug, does not exceed 2 m (0.5 mm ² three-core supply flexible cords are not permitted; see Note 2 to Table 2.17 of AS/NZS 3191).		
4.3.6	Replace the third paragraph: Equipment with a plug portion, suitable for insertion into a 10 A 3-pin flat-pin socket-outlet complying with AS/NZS 3112, shall comply with the requirements in AS/NZS 3112 for equipment with integral pins for insertion into socket-outlets.	Not direct plug-in equipment.	N/A
4.3.13	For the purpose of this standard compliance with AS/NZS 2211.1 is deemed to be compliance with IEC60825.1		Pass
4.7	Add after the clause: For alternative resistance to fire tests, refer to Annex YY.	Added.	Pass
6.2.1	Replace item c) with: An SELV circuit, a TNV-2 circuit or a Limited Current Circuit provided for connection of other equipment. The requirement for separation applies whether or not this circuit is accessible.		N/A
6.2.2	Replace the first paragraph by: In Australia (not in New Zealand), compliance with 6.2.2 is checked by the tests of both 6.2.2.1 and 6.2.2.2.		N/A
6.2.2.1	Replace 6.2.2.1 with: In Australia (not in New Zealand), the electrical separation is subjected to 10 impulses of alternating polarity, using the impulse test generator of Annex N for 10/700µs impulses. The interval between successive impulses is 60 s and the initial voltage, U _c is: - for 6.2.1a): 7.0 kV for hand-held telephones and for headsets; 2.5 kV for other equipment;		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	<p>for 6.2.1b) and 6.2.1c): 1.5 kV.</p> <p>NOTE 1 - The 7 kV impulse is to simulate lightning surges on typical rural and semi-rural network lines.</p> <p>NOTE 2 - The value of 2.5 kV for 6.2.1a) was chosen to ensure adequacy of the insulation concerned and does not necessarily simulate likely overvoltages.</p>		
6.2.2.2	<p>Replace the first and second paragraphs of 6.2.2.2 with: In Australia (not New Zealand), the electrical separation is subjected to an electric strength test according to 5.2.2.</p> <p>The a.c. test voltage is:</p> <ul style="list-style-type: none"> - for 6.2.1a) 3 kV - for 6.2.1b) and 6.2.1c) 1.5 kV <p>NOTE 1 - Where there are capacitors across the insulation under test, it is recommended that d.c. test voltages are used.</p> <p>NOTE 2 - The 3 kV and 1.5 kV values have been determined considering the low frequency induced voltages from the power supply distribution system.</p>		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict

Denmark - Differences to IEC 60950-1:2001, First Edition			
1.2.4.1	Certain types of Class I appliances (see sub-clause 3.2.1.1) may be provided with plug not establishing earthing continuity when inserted into Danish socket-outlets.		N/A
1.7.2	Supply cords of Class I equipment, which is delivered without a plug, must be provided with a visible tag with the following text: "Vigtigt ! Lederen med grøn/gul isolation må kun tilsluttes en klemme mærket (IEC 417, No. 5019) eller (IEC 417, No. 5017)." If essential for the safety of the equipment, the tag must in addition be provided with a diagram, which shows the connection of the other conductors, or be provided with the following text: "For tilslutning af de øvrige ledere, se medfølgende installationsvejledning".	Should be evaluated when submitted for national approval.	N/A
1.7.5	Socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For stationary equipment, the socketOutlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.	No such devices within the EUT.	N/A
1.7.5	Class II equipment shall not be fitted with socket-outlets for providing power to other equipment.	Class I equipment.	N/A
3.2.1.1	Supply cord of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1. Class I equipment provided with socket-outlets with earth contact 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 Heavv Current	- Power supply cord, suitable for the application and subject to country's national code and regulations is to be provided by the manufacturer or distributor. - The suitability of application is determined by the country's local Certification Body.	N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	Regulations, Section 107-2-D1 or EN 60309-2.		

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict

Finland - Differences to IEC 60950-1:2001, First Edition			
1.7.2	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 shall be: "Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan"	Should be evaluated when submitted for national approval.	N/A
6.1.2.1	Add the following text between the first and second paragraph: 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. If this insulation forms part of a semiconductor component (e.g. an optocoupler), 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 IEC 60950-1, 2.10.8 with an electric strength test of 1.5 kV multiplied by 1.6 (the electric strength test of 2.10.7 shall be performed using 1.5 kV), and - is subject to routing testing for electric strength during manufacturing, using a test voltage of 1.5 kV. It is permitted to bridge this insulation with a capacitor complying with IEC 60384-14:1993, subclass Y2. A capacitor classified Y3 according to IEC 60384-14:1993, may bridge this insulation under the following conditions: - the insulation requirements are satisfied by having a capacitor classified Y3 as defined by IEC 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2.5 kV defined in EN		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	60950-1, subclause 6.2.2.1; - the additional testing shall be performed on all the test specimens as described in IEC 60384-14; - the impulse test of 2,5 kV is to be performed before the endurance test in IEC 60384-14, in the sequence of tests as described in IEC 60384-14.		
6.1.2.2	The exclusions are applicable for permanently connected equipment and 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
7.1	Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply with the term telecommunication network in 6.1.2 being replaced by the term cable distribution system.		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict

Germany - Differences to IEC 60950-1:2001, First Edition			
1.7.12	<p>(Gesetz uber technische Arbeitsmittel (Geratesicherheitsgesetz) [Law of technical labour equipment {Equipment safety law}], of 23rd October 1992, Article 3, 3rd paragraph, 2nd sentence, together with the "Allgemeine Verwaltungsvorschrift zur Durchfuehrung des Zweiten Abschnitts des Geratesicherheitsgesetzes" [General administrative regulation on the execution of the Second Section of the Equipment safety law], of 10th January 1996, article 2, the paragraph, item 2).</p> <p>Directions for use with rules to prevent certain hazards for (among others) maintenance of the technical labour equipment, also for imported technical labour equipment shall be written in the German language.</p> <p>NOTE: Of this requirement, rules for use even only by service personnel are not exempted.</p>	<p>Safety instructions/markings reviewed in English only. Other languages will be provided when submitted for national approval.</p>	N/A
H	<p>(Regulation on protection against hazards by X-ray, of 8th January 1987, Article 5 [operation of X-ray emission source], clauses 1 to 4)</p> <p>a) A licence is required by those who operate an X-ray emission source.</p> <p>b) A licence in accordance with Cl. 1 is not required by those who operate an X-ray emission source on which the electron acceleration voltage does not exceed 20 kV if</p> <ol style="list-style-type: none"> 1) the local dose rate at a distance of 0,1 m from the surface does not exceed 1 µSv/h and 2) it is adequately indicated on the X-ray emission source that <ol style="list-style-type: none"> i) X-rays are generated ii) the electron acceleration voltage must not exceed the maximum value stipulated by the manufacturer or importer. <p>c) A licence in accordance with Cl. 1 is also not required by persons who operate an X-ray emission source on which the electron acceleration voltage exceeds 20 kV if</p> <ol style="list-style-type: none"> 1) the X-ray emission source has been granted a type approval and 2) it is adequately indicated on the X-ray emission source that <ol style="list-style-type: none"> i) X-rays are generated ii) the device stipulated by the manufacturer or importer guarantees that the maximum 		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	<p>permissible local dose rate in accordance with the type approval is not exceeded and</p> <p>iii) the electron acceleration voltage must not exceed the maximum value stipulated by the manufacturer or importer.</p> <p>d) Furthermore, a licence in accordance with Cl. 1 is also not required by persons who operate X-ray emission sources on which the electron acceleration voltage does not exceed 30 kV if</p> <p>1) the X-rays are generated only by intrinsically safe CRTs complying with Enclosure III, No. 6,</p> <p>2) the values stipulated in accordance with Enclosure III, No. 6.2 are limited by technical measures and specified in the device and</p> <p>3) it is adequately indicated on the X-ray emission source that the X-rays generated are adequately screened by the intrinsically safe CRT.</p>		

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	words "in some countries" in condition 1. In Note 1, 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: "Over 10 up to and including 16 1.5 to 2.5 1.5 to by 4" Delete the fifth line: conductor sizes for 13 to 16A.		N/A
4.3.13.6	Add the following note: NOTE - 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. Standards taking into account this recommendation are currently under development.	Added.	N/A
General	Delete all the "country" notes in the reference document according to the following list: 1.5.1 Note 2 1.5.8 Note 2 1.6.1 Note 1.7.2 Note 4 1.7.12 Note 2 2.1 Note 2.2.3 Note 2.2.4 Note 2.3.2 Note 2, 7, 8 2.3.3 Note 1, 2 2.3.4 Note 2,3 2.7.1 Note 2.10.3.1 Note 4 3.2.1.1 Note 3.2.3 Note 1, 2 3.2.5.1 Note 2 4.3.6 Note 1,2 4.7.2.2 Note 4.7.3.1 Note 2 6.1.2.1 Note 6.1.2.2 Note 6.2.2 Note 6.2.2.1 Note 2 6.2.2.2 Note 7 Note 4 7.1 Note G2.1 Note 1, 2 H Note 2		N/A
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 μ Sv/h (0,1 mR/h) (see note). Account is taken of the background level. Replace the notes as follows: NOTE - These values appear in Directive 96/29/Euratom. Delete Note 2.		N/A
P	Replace the text of this annex by: See annex ZA		Pass
Q	Replace the title of IEC 61032 by "Protection of persons and equipment by enclosures - Probes for verification". Add the following notes for the standards indicated: IEC 60127 NOTE Harmonized as EN 60127		Pass

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	(Series) (not modified) IEC 60269-2-1 NOTE Harmonized as HD 630.2.1 S4:2000 (modified) IEC 60529 NOTE Harmonized as EN 60529:1991 (not modified) IEC 61032 NOTE Harmonized as EN 61032:1998 (not modified) IEC 61140 NOTE Harmonized as EN 61140:2001 (not modified) ITU-T Recommendation K.31 NOTE in Europe, the suggested document is EN 50083-1.		
Korea - Differences to IEC 60950-1:2001, First Edition			
1.5.101	Addition: Plugs for the connection of the apparatus to the supply mains comply with the Korean requirement (KSC 8305).	It should be considered during national approval.	N/A
7	Addition: EMC - The apparatus shall complies with the relevant CISPR standards.		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict

Norway - Differences to IEC 60950-1:2001, First Edition			
1.5.8	Due to the IT power system used (see annex V, figure V.7), capacitors are required to be rated for the applicable phase-to-phase voltage (230 V).		N/A
1.7.2	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 shall be: "Apparatet må tilkoples jordet stikkontakt"	Should be evaluated when submitted for national approval.	N/A
2.2.4	Requirements according to this annex, 1.7.2 and 6.1.2.1 apply.		N/A
2.3.2	Requirements according to this annex, 6.1.2.1 apply.		N/A
2.3.3	Requirements according to this annex, 1.7.2 and 6.1.2.1 apply.		N/A
2.3.4	Requirements according to this annex, 1.7.2 and 6.1.2.1 apply.		N/A
2.10.3.1	Due to the IT power distribution system used (see annex V, figure V.7), the A.C. mains supply voltage is considered to be equal to the line-to-line voltage, and will remain at 230 V in case of a single earth fault.		N/A
6.1.2.1	Add the following text between the first and second paragraph: 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. If this insulation forms part of a semiconductor component (e.g. an optocoupler), 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		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	<p>the compliance clause below and in addition:</p> <ul style="list-style-type: none"> - passes the tests and inspection criteria of IEC 60950-1, 2.10.8 with an electric strength test of 1.5 kV multiplied by 1.6 (the electric strength test of 2.10.7 shall be performed using 1.5 kV), and - is subject to routing testing for electric strength during manufacturing, using a test voltage of 1.5 kV. <p>It is permitted to bridge this insulation with a capacitor complying with IEC 60384-14:1993, subclass Y2.</p> <p>A capacitor classified Y3 according to IEC 60384-14:1993, may bridge this insulation under the following conditions:</p> <ul style="list-style-type: none"> - the insulation requirements are satisfied by having a capacitor classified Y3 as defined by IEC 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1, subclause 6.2.2.1; - the additional testing shall be performed on all the test specimens as described in IEC 60384-14; - the impulse test of 2,5 kV is to be performed before the endurance test in IEC 60384-14, in the sequence of tests as described in IEC 60384-14. 		
6.1.2.2	The exclusions are applicable for permanently connected equipment and 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
7.1	Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply with the term telecommunication network in 6.1.2 being replaced by the term cable distribution system.		N/A
G.2.1	Due to the IT power distribution system used (see annex V, figure V.7), the A.C. mains supply voltage is considered to be equal to the line-to-line voltage, and will remain at 230 V in case of a single earth fault.		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict

Sweden - Differences to IEC 60950-1:2001, First Edition			
1.5.1	(Ordinance (1990:944)) Add NOTE: Switches containing mercury such as thermostats, relays and level controllers are not allowed.	No such devices within the EUT.	N/A
1.7.2	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 shall be: "Apparaten skall anslutas till jordat uttag"	Should be evaluated when submitted for national approval.	N/A
6.1.2.1	Add the following text between the first and second paragraph: 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. If this insulation forms part of a semiconductor component (e.g. an optocoupler), 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 IEC 60950-1, 2.10.8 with an electric strength test of 1.5 kV multiplied by 1.6 (the electric strength test of 2.10.7 shall be performed using 1.5 kV), and - is subject to routing testing for electric strength during manufacturing, using a test voltage of 1.5 kV. It is permitted to bridge this insulation with a capacitor complying with IEC 60384-14:1993, subclass Y2. A capacitor classified Y3 according to IEC 60384-14:1993, may bridge this insulation under the following conditions: - the insulation requirements are satisfied by		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	having a capacitor classified Y3 as defined by IEC 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1, subclause 6.2.2.1; - the additional testing shall be performed on all the test specimens as described in IEC 60384-14; - the impulse test of 2,5 kV is to be performed before the endurance test in IEC 60384-14, in the sequence of tests as described in IEC 60384-14.		
6.1.2.2	The exclusions are applicable for permanently connected equipment and 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
7.1	Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply with the term telecommunication network in 6.1.2 being replaced by the term cable distribution system.		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict

USA / Canada - Differences to IEC 60950-1:2001, First Edition			
1.1	Equipment able to be installed in accordance with the National Electrical Code ANSI/NFPA 70 and the Canadian Electrical Code, Part1, and when applicable, the National Electrical Safety Code, IEEE C2.		Pass
1.1.1	Equipment able to be installed in accordance with ANSI/NFPA 75 and NEC Art. 645 unless intended for use outside of computer room and provided with such instructions.		Pass
1.1.2	Equipment in wire-line communication facilities serving high-voltage electric power stations operating at greater than 1kV are excluded.		N/A
1.1.2	Special requirements apply to equipment intended for use outdoors.		N/A
1.4.14	For Pluggable Equipment Type A, the protection in the installation is assumed to be 20 A.		Pass
1.5.1	All IEC standards for components identified in Annex P.1 replaced by the relevant requirements of CSA and UL component standards in Annex P.1.	Considered in UL approvals per Annex P.1.	Pass
1.5.1	All IEC standards for components identified in Annex P.2 alternatively satisfied by the relevant requirements of CSA and UL component standards in Annex P.2.		Pass
1.5.5	Interconnecting cables acceptable for the application regarding voltage, current, temperature, flammability, mechanical serviceability and the like.	INTERCONNECTING CABLES used complied with the relevant requirements of this standard.	Pass
1.5.5	For other than limited power and TNV circuits, the type of output circuit identified for output connector.		Pass
1.5.5	External cable assemblies that exceed 3.05 m in length to be types specified in the NEC and CEC.		N/A
1.5.5	Detachable external interconnecting cables 3.05 m or less in length and provided with equipment marked to identify the responsible organization and the designation for the cable.		Pass
1.5.5	Building wiring and cable for use in ducts, plenums and other air handling space subject to special requirements and excluded from scope.		N/A
1.5.5	Telephone line and extension cords and the like comply with UL 1863 and CSA C22.2 No. 233.		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
1.6.1.2	Equipment intended for connection to a d.c. power (mains) distribution system is subject to special circuit classification requirements (e.g., TNV-2)		N/A
1.6.1.2	Earthing of d.c. powered equipment provided.		N/A
1.7	Lamp replacement information indicated on lampholder in operator access area.		N/A
1.7.1	Special marking format for equipment intended for use on a supply system with an earthed neutral and more than one phase conductor.		N/A
1.7.1	Equipment voltage rating not higher than rating of the plug except under special conditions.		N/A
1.7.6	Special fuse replacement marking for operator accessible fuses.		N/A
1.7.7	Identification of terminal connection of the equipment earthing conductor.		Pass
1.7.7	Connectors and field wiring terminals for external Class 2 or Class 3 circuits provided with marking indicating minimum Class of wiring to be used.		N/A
1.7.7	Marking located adjacent to terminals and visible during wiring.		Pass
2.1.1	Screw shell of Edison-base lampholder tied to the neutral conductor.		N/A
2.1.1.1	Bare TNV conductive parts in the interior of equipment normally protected against contact by a cover intended for occasional removal are exempt provided instructions include directions for disconnection of TNV prior to removal of the cover.		N/A
2.3.1.b	Other telecommunication signaling systems (e.g., message waiting) than described in 2.3.1(b) are subject to M.4.		N/A
2.3.1.b	For TNV-2 and TNV-3 circuits with other than ringing signals and with voltages exceeding 42.4 Vp or 60 V d.c., the maximum current limit through a 2000 Ohm or greater resistor with loads disconnected is 7.1 mA peak or 30 mA d.c. under normal conditions.		N/A
2.3.1.b	Limits for measurements across 5000 ohm resistor in the event of a single fault are replaced after 200 ms with the limits of M.3.1.4.		N/A
2.3.2	Enamel coating on signal transformer winding wire allowed as an alternative to Basic insulation in specific telecommunication applications when		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	subjected to special construction requirements and routine testing.		
2.3.2	In the event of a single fault, the limits of 2.2.3 apply to SELV circuits and accessible conductive parts.		N/A
2.5	Overcurrent protection device required for Class 2 and Class 3 limiting in accordance with the NEC, or for a Limited Power Source, not interchangeable with devices of higher ratings if operator replaceable.		N/A
2.6	Equipment having receptacles for output a.c. power connectors generated from an internal separately derived source have the earthed (grounded) circuit conductor suitably bonded to earth.		N/A
2.6.3.3	For Pluggable Equipment Type A, if neither a) or b) are applicable, the current rating of the circuit is taken as 20 A.		Pass
2.6.3.4	Capacity of connection between earthing terminal and parts required to be earthed subject to special conditions based on the current rating of the circuit.		N/A
2.6.3.4	Protective bonding conductors and their terminals of non-standard constructions (e.g. PWB traces) evaluated to limited short-circuit test of CSA C22.2 No.0.4.		N/A
2.6.4.1	Field wiring terminals for earthing conductors suitable for wire sizes (gauge) used in US and Canada.		Pass
2.7.1	Data for selection of special external branch circuit overcurrent devices marked on the equipment.		N/A
2.7.1	Standard supply outlets protected by overcurrent device in accordance with the NEC, and CEC, Part 1.		N/A
2.7.1	Overcurrent protection for individual transformers that distribute power to other units over branch circuit wiring.		N/A
2.7.1	Additional requirements for overcurrent protection apply to equipment provided with panelboards.		N/A
2.7.1	Non-motor-operated equipment requiring special overcurrent protective device marked with device rating.		N/A
2.10.5.4	Multi-layer winding wire subject to UL component wire requirements in addition to 2.10.5.4 and		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	Annex U.		
3.1.1	Permissible combinations of internal wiring/external cable sizes for overcurrent and short circuit protection.	All internal wires possess adequate cross-sectional areas for their intended application and all internal wirings are adequately insulated.	Pass
3.1.1	All interconnecting cables protected against overcurrent and short circuit.	All INTERCONNECTING CABLES possess adequate cross-sectional areas for their intended application and all internal wirings are adequately insulated.	Pass
3.2	Wiring methods permit connection of equipment to primary power supply in accordance with the NEC and CEC, Part 1.		Pass
3.2.1	Permitted use for flexible cords and plugs.		N/A
3.2.1	Flexible cords provided with attachment plug rated 125% of equipment current rating.	The attachment plug was rated greater than 125% of the RATED CURRENT of the equipment.	Pass
3.2.1	Any Class II equipment provided with 15 or 20 A standard supply outlets, Edison-base lampholders or single pole disconnect device provided with a polarized type attachment plug.		N/A
3.2.1.2	Equipment intended for connection to DC mains supply power systems complies with special wiring requirements (e.g., no permanent connection to supply by flexible cord).		N/A
3.2.1.2	Equipment with one pole of the DC mains supply connected to both the equipment mains input terminal and the main protective earthing terminal provided with special instructions and construction provisions for earthing		N/A
3.2.1.2	Equipment with means for connecting supply to earthing electrode conductor has no switches or protective devices between supply connection and earthing electrode connection.		N/A
3.2.1.2	Special markings and instructions for equipment with provisions to connect earthed conductor of a DC supply circuit to earthing conductor at the equipment.		N/A
3.2.1.2	Special markings and instructions for equipment		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	with earthed conductor of a DC supply circuit connected to the earthing conductor at the equipment.		
3.2.1.2	Terminals and leads provided for permanent connection of DC powered equipment to supply marked to indicate polarity if reverse polarity may result in a hazard.		N/A
3.2.3	Permanently connected equipment has provision for connecting and securing a field wiring system (i.e. conduit, or leads etc.) per the NEC and CEC, Part 1.		N/A
3.2.3	Permanently connected equipment may have terminals or leads not smaller than No. 18 AWG (0.82 mm ²) and not less than 152 mm in length for connection of field installed wiring.		N/A
3.2.3	If supply wires exceed 60 °C, marking indicates use of 75 °C or 90 °C wiring for supply connection as appropriate.		N/A
3.2.3	Equipment compatible with suitable trade sizes of conduits and cables.		N/A
3.2.5	Length of power supply cord limited to between 1.5 and 4.5 m unless shorter length used when intended for a special installation.		Pass
3.2.5	Conductors in power supply cords sized according to NEC and CEC, Part I.		Pass
3.2.5	Power supply cords and cord sets incorporate flexible cords suitable for the particular application.		Pass
3.2.6	Strain relief provided for non-detachable interconnecting cables not supplied by a limited power source.		N/A
3.2.9	Adequate wire bending space and volume of field wiring compartment required to properly make the field connections.		N/A
3.2.9	Equipment intended solely for installation in Restricted Access Locations using low voltage d.c. systems may not need provision for connecting and securing a field wiring system. A method of securing wiring or instructions provided to ensure the wiring is protected from abuse.		N/A
3.3	Field wiring terminals provided for interconnection of units for other than LPS or Class 2 circuits also comply with 3.3.		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
3.3	Interconnection of units by LPS or Class 2 conductors may have field wiring connectors other than those specified in 3.3 if wiring is reliably separated.		N/A
3.3.1	Terminals for the connection of neutral conductor identified by a distinctive white marking or other equally effective means.		N/A
3.3.3	Wire binding screw terminal permitted for connection of No. 10 AWG (5.3 mm ²) or smaller conductor if provided with upturned lugs, cupped washer or equivalent retention.		N/A
3.3.4	Terminals accept wire sizes (gauge) used in the U.S. and Canada.		N/A
3.3.4	Terminals accept current-carrying conductors rated 125% of the equipment current rating.		N/A
3.3.6	Field wiring terminals marked to indicate the material(s) of the conductor appropriate for the terminals used.		N/A
3.3.6	Connection of an aluminum conductor not permitted to terminal for equipment earthing conductor.		N/A
3.3.6	Field wiring connections made through the use of suitable pressure connectors (including set screw type), solder lugs or splices to flexible leads.		N/A
3.4.2	Separate motor control device(s) required for cord-connected equipment rated more than 12 A, or with motor rated more than 1/3 hp or more than 120 V.		N/A
3.4.8	Vertically mounted disconnect devices oriented so up position of handle is "on".		N/A
3.4.11	For computer-room applications, equipment with battery systems capable of supplying 750 VA for 5 min require battery disconnect means.		N/A
4.2.8.1	Special opening restrictions for enclosures around CRTs with face dimension of 160 mm or more.		N/A
4.2.9	Compartment housing high-pressure lamp marked to indicate risk of explosion.		N/A
4.3.2	Loading test for equipment with handle(s) used to support more than 9 kg tested at four times the weight of the unit.		N/A
4.3.6	In addition to the IEC requirements, Direct Plug-in Equipment complies with UL 1310 or CSA 223 mechanical assembly requirements.		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
4.3.12	The maximum quantity of flammable liquid stored in equipment complies with ANSI/NFPA 30(Table NAE.6).		N/A
4.3.12	Equipment using replenishable liquids marked to indicate type of liquid to be used.		N/A
4.3.13.2	Equipment that produces x-radiation and does not comply with 4.3.12 under all conditions of servicing marked to indicate the presence of radiation where readily visible.		N/A
4.3.13.5	Requirements contained in the applicable national codes and regulations apply to lasers (21 CFR 1040 and REDR C1370).		Pass
4.7	Automated information storage equipment intended to contain more than 0.76 m ³ of combustible media requires provision for automatic sprinklers or a gaseous agent extinguishing system.		N/A
4.7.3.1	Equipment for use in environmental air space other than ducts or plenums provided with metal enclosure or with non-metallic enclosure having adequate fire-resistance and low smoke producing characteristics. Low smoke-producing characteristics evaluated according to UL 2043. Equipment for installation in space used for environmental air as described in Sec. 300-22(c) of the NEC provided with instructions indicating suitability for installation in such locations.		N/A
4.7.3.1	Flame spread rating for external surface of combustible material with exposed area greater than 0.93 m ² or a single dimension greater than 1.8 m; 50 or less for computer room applications or 200 or less for other applications.		N/A
4.7.3.4	Wire marked "VW-1" or "FT-1" considered equivalent.		Pass
5.1.8.2	Special earthing provisions and instructions for equipment with high touch current due to telecommunication network connections.		N/A
5.1.8.3	Touch current due to ringing voltage for equipment containing telecommunication network leads.		N/A
5.3.6	Overloading of SELV connectors and printed wiring board receptacles accessible to the operator.		Pass
5.3.6	Tests interrupted by opening of a component repeated two additional times.		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
5.3.8.1	Test interrupted by opening of wire or trace subject to certain conditions.		N/A
6	Specialized instructions provided for telephones that may be connected to a telecommunications network.	No TNV presents.	N/A
6	Marking identifying function of telecommunication type connectors not used for connection to a telecommunication network.		N/A
6.2.1	Special requirements for enameled wiring used as electrical separation provided between parts connected to telecommunication network and telecommunication circuitry intentionally isolated from network.		N/A
6.2.1	Digital line termination equipment (e.g., NCTE) subject to separation requirements.		N/A
6.3	Equipment remotely powered over telecommunication wiring systems provided with specialized markings adjacent to the connection.		N/A
6.3	Overcurrent protection incorporated into equipment to provide power over telecommunication wiring system not interchangeable with devices of higher ratings if operator replaceable.		N/A
6.4	Additional requirements for equipment intended for connection to a telecommunication network using cable subject to overvoltage from power line failures (Fig. 6C).		N/A
6.4	Where 26 AWG line cord required by Fig. 6C, either the cord is provided with the equipment or described in the safety instructions.		N/A
6.5	Acoustic pressure from an ear piece less than 136 dBA for short duration disturbances, and less than 125 dBA for handsets, 118 dBA for headsets, and 121 dBA for insert earphones, for long duration disturbances.		N/A
7	Equipment associated with the cable distribution system may need to be subjected to applicable parts of Chapter 8 of the NEC.		N/A
H	Ionizing radiation measurements made under single fault conditions in accordance with the requirements of the Code of Federal Regulations 21 CFR 1020 and the Canadian Radiation Emitting Devices Act, REDR C1370.		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
M.2	Continuous ringing signals evaluated to Method A subjected to special accessibility considerations.		N/A
M.4	Special requirements for message waiting and similar telecommunications signals.		N/A
NAC	Equipment intended for use with a generic secondary protector marked with suitable instructions.		N/A
NAC	Equipment intended for use with a specific primary or secondary protector marked with suitable instructions.		N/A
NAF	Household/Home Office Document Shredders		N/A
NAF.1.7	Markings and instructions alert the user to key safety considerations related to use of shredders, including not intended to be used by children, avoid touching document feed opening, avoid clothes and hair entanglement, and avoid aerosol products.		N/A
NAF.2.8.3	Safety interlock cannot be inadvertently activated by the articulated accessibility probe (figure NAF.1).		N/A
NAF.3.4	Provided with an isolating switch complying with 3.4.2, including 3 mm contact gap, with appropriate markings associated with the switch.		N/A
NAF.4.4	Hazardous moving parts are not accessible to the user, as determined using the articulated accessibility probe (figure NAF.1) and the accessibility probe/wedge (figures NAF.2/NAF.3).		N/A

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict

United Kingdom - Differences to IEC 60950-1:2001, First Edition			
2.6.3.3	The current rating of the circuit shall be taken as 13 A, not 16 A.		N/A
2.7.1	To protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment, protective device shall be included as integral parts of the direct plug-in equipment.	The EUT is not a direct plug-in equipment.	N/A
3.2.1.1	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 1786: 1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations. NOTE: "Standard plug" is defined in SI 1786: 1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	- Power supply cord, suitable for the application and subject to country's national code and regulations is to be provided by the manufacturer or distributor. - The suitability of application is determined by the country's local Certification Body.	N/A
3.2.5.1	A power supply cord with conductor of 1.25 mm ² is allowed for equipment with a rated current over 10A and up to and including 13A.		Pass
3.3.4	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
4.3.6	The torque test is performed using a socket outlet complying with BS 1363 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, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C.		N/A

Enclosure

Photographs

Supplement Id	Description
3-01	Overall view of Model TPP016VPD - Front view
3-02	Overall view of Model TPP016VPD - Rear view
3-03	Interior view of Model TPP016VPD
3-04	Overall view of Model TPP016VPD
3-05	Overall view of Model TPP016VPD
3-07	Photo for bonding terminal

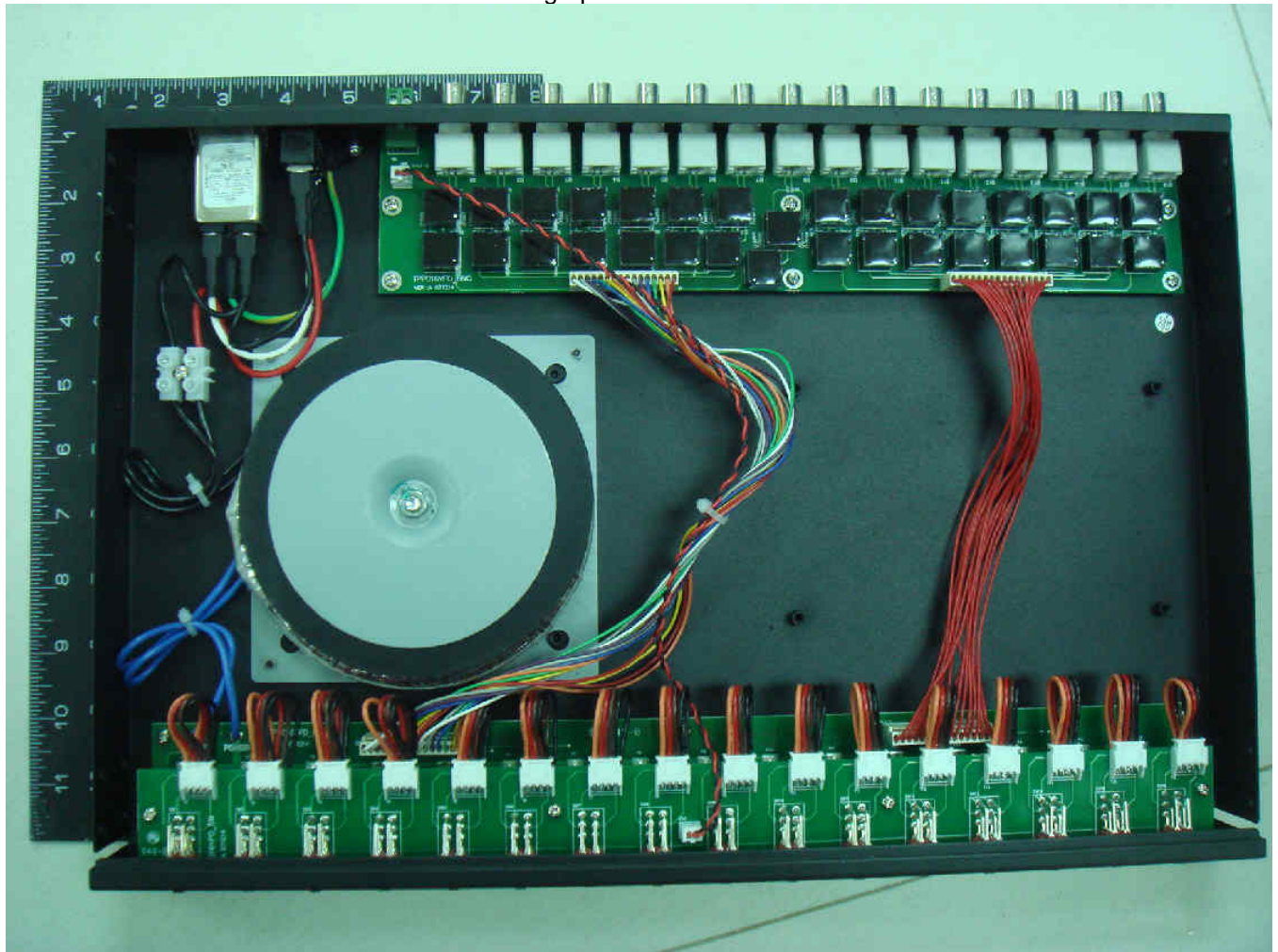
Photographs ID 3-01



Photographs ID 3-02



Photographs ID 3-03



Photographs ID 3-04



Photographs ID 3-05



Photographs ID 3-07

