LVD TEST REPORT

For

PC SYSTEM MOBII

Model Number: CS-G41, CS-G41-XXXX (XXXX ranges from 0 to 9)

Prepared for	:	POINT OF VIEW B.V. ACHTSEWEG NOORD 9, 5651 GG EINDHOVEN THE NETHERLANDS
Prepared By	:	Shenzhen Toby Technology Co., Ltd. 10/F., A Block, Jiada R & D Bldg., No.5 Songpingshan Road, Science & Technology Park, Nanshan District, Shenzhen, China
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Report Number	:	**TB-LVD108626**
Date of Test	:	Nov. 15-17, 2010
Date of Report	:	Nov. 18-19, 2010

CERTIFICATION

APPLICANT : POINT OF VIEW B.V.
ADDRESS : ACHTSEWEG NOORD 9, 5651 GG EINDHOVEN THE NETHERLANDS
FACTORY : POINT OF VIEW B.V.
ADDRESS : ACHTSEWEG NOORD 9, 5651 GG EINDHOVEN THE NETHERLANDS
PRODUCT : PC SYSTEM MOBII
MODELS : CS-G41, CS-G41-XXXX (XXXX ranges from 0 to 9)

Test Standards
EN60950-1:2006+A11:2009 Safety of Information technology equipment Part 1: General requirements

This report shows that the product technically complies with the Council LVD Directive **2006/95/EC** requirements.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Report by :	Daniel Tan	Date :	Nov. 19, 2010
	(Daniel Tan)		
Checked by :	Ethan Chen	Date :	Nov. 19, 2010
	(Ethan Chen)		
Approved by :	Justin zheng	Date :	Nov. 22, 2010
	(Justin Zhang)		

EN60950-1:2006+A11:2009
Safety of Information technology equipment
Part 1: General requirements

Testing laboratory----------: Shenzhen Toby Technology Co., Ltd. Address----------: 10/F., A Block, Jiada R & D Bldg., No.5 Songpingshan Road, Science & Technology Park, Nanshan District, Shenzhen, China Testing location----------: Shenzhen Toby Technology Co., Ltd.
Applicant----------: POINT OF VIEW B.V. Address ----------: ACHTSEWEG NOORD 9, 5651 GG EINDHOVEN THE NETHERLANDS
Standard ----------: EN60950-1:2006+A11:2009
Test result ----------: Compliance with the standard requirement
Procedure deviation----------: N.A.
Non-standard test method ------: N.A.
Type of test object ---------- : PC SYSTEM MOBII
Trademark ---------- : N.A.
Model/Type reference ---------- : CS-G41, CS-G41-XXXX (XXXX ranges from 0 to 9)
Rating ---------- : See the marking plate
Factory ----------: POINT OF VIEW B.V. Address ----------: ACHTSEWEG NOORD 9, 5651 GG EINDHOVEN THE NETHERLANDS

Test item particulars:
Equipment mobility ----------: Movable Equipment
Operating condition----------: Continuous
Mass of equipment (kg) ----------: >1
Pollution degree ----------: PD2
Mains supply tolerance (%) ----------: Refer to the report
Class of equipment ----------: Class I
Protection against ingress of water------: IP20

Possible test case verdicts:
Test case does not apply to the object----------: N
Test object does meet the requirement ----------: P
Test object does not meet the requirement----------: F

General product information:
All test in ambient temperature is 25±5℃.

General remarks:

1.“（see remark #）”refers to a remark appended to the report.

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

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

4. All models are identical in structure, schematic circuit and critical components except for different model number. Therefore, all testing were performed with CS-G41.

5. This report shall not be reproduced except in full without the written approval of the Shenzhen TOBY.

6. If client has any objection to the testing results, please advise us within 15 working days after publish, otherwise claims will not be accepted.

Artwork of Marking Label

POINT OF VIEW B.V.
Name: PC SYSTEM MOBII
Model: CS-G41
Input: AC 220-240V, 50/60Hz, 1.5A

Made In China

EN60950-1:2006+A11:2009			
CL.	Requirement of the test	Result--Remark	Verdict
1	GENERAL		P
1.5	Components		P
1.5.1	General		P
	Comply with IEC 60950 or relevant component standard	Components comply with the requirements of this standard or relevant IEC/EN component standard. see appended table 1.5.1	P
1.5.2	Evaluation and testing of components	All safety critical components are certified, all components are used within their specified ratings, no-certified components were tested accord with standard. see appended table 1.5.1	P
1.5.3	Thermal controls		N
1.5.4	Transformers	See Annex C	P
1.5.5	Interconnecting cables		N
1.5.6	Capacitors bridging insulation		N
1.5.7	Resistors bridging insulation	No such resistors used	N
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		N
1.5.8	Components in equipment for IT power systems		N
1.5.9	Surge suppressors		N
1.5.9.1	General		N
1.5.9.2	Protection of VDRs		N
1.5.9.3	Bridging of functional insulation by a VDR		N
1.5.9.4	Bridging of basic insulation by a VDR		N
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N

EN60950-1:2006+A11:2009			
CL.	Requirement of the test	Result--Remark	Verdict
1.6	Power interface		P
1.6.1	AC power distribution systems		P
1.6.2	Input current		P
1.6.3	Voltage limit of hand-held equipment	No hand-held equipment	N
1.6.4	Neutral conductor		N
1.7	Marking and instructions		P
1.7.1	Power rating		P
	Rated voltage(s) or voltage range(s) (V) :	220-240Vac	P
	Symbol for nature of supply, for d.c. only :		N
	Rated frequency or rated frequency range (Hz) :	50/60Hz	P
	Rated current (mA or A) :		P
	Manufacturer's name or trade-mark or identification mark :	See the marking	P
	Model identification or type reference :	See the marking	P
	Symbol for Class II equipment only :	Class Ⅰ equipment	N
	Other markings and symbols :	Symbol  is used.	P
1.7.2	Safety instructions and marking		P
1.7.2.1	General		P
1.7.2.2	Disconnect devices		N
1.7.2.3	Overcurrent protective device		P
1.7.2.4	IT power distribution systems		N
1.7.2.5	Operator access with a tool		N
1.2.7.6	Ozone		N
1.7.3	Short duty cycles	Continuous operation	N
1.7.4	Supply voltage adjustment :	Supply voltage not adjustable	N
	Methods and means of adjustment; reference to installation instructions :		N

EN60950-1:2006+A11:2009			
CL.	Requirement of the test	Result--Remark	Verdict
1.7.5	Power outlets on the equipment :		N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference) :		P
1.7.7	Wiring terminals	See below	P
1.7.7.1	Protective earthing and bonding terminals :	Appliance inlet is used.	P
1.7.7.2	Terminals for a.c. mains supply conductors		N
1.7.7.3	Terminals for d.c. mains supply conductors		N
1.7.8	Controls and indicators	See below	P
1.7.8.1	Identification, location and marking :	the symbols ○ and ｜ are marked on the power control switch	P
1.7.8.2	Colours :		N
1.7.8.3	Symbols according to IEC 60417:	See the clause 1.7.8.1	P
1.7.8.4	Markings using figures :		N
1.7.9	Isolation of multiple power sources :		N
1.7.10	Thermostats and other regulating devices :	No such device used	N
1.7.11	Durability		N
1.7.12	Removable parts	No removable parts	N
1.7.13	Replaceable batteries :	No replaceable batteries	N
	Language(s) :		—
1.7.14	Equipment for restricted access locations:	EUT is not considered for exclusive usage in restricted access locations	N

2	PROTECTION FROM HAZARDS		P
2.1	Protection from electric shock and energy hazards		P
2.1.1	Protection in operator access areas		P
2.1.1.1	Access to energized parts	No access with test finger and test pin to any hazardous parts	P
	Test by inspection :		P
	Test with test finger (Figure 2A) :		P
	Test with test pin (Figure 2B) :		P

EN60950-1:2006+A11:2009			
CL.	Requirement of the test	Result--Remark	Verdict
	Test with test probe (Figure 2C) :		P
2.1.1.2	Battery compartments	No battery used	N
2.1.1.3	Access to ELV wiring		N
	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)		—
2.1.1.4	Access to hazardous voltage circuit wiring		N
2.1.1.5	Energy hazards:	Switch Power supply was approved .	N
2.1.1.6	Manual controls		N
2.1.1.7	Discharge of capacitors in equipment		N
	Measured voltage (V); time-constant (s):		—
2.1.1.8	Energy hazards – d.c. mains supply		N
	a) Capacitor connected to the d.c. mains supply :		N
	b) Internal battery connected to the d.c. mains supply :		N
2.1.1.9	Audio amplifiers :		N
2.1.2	Protection in service access areas		N
2.1.3	Protection in restricted access locations	See above	N
2.2	SELV circuits		P
2.2.1	General requirements		P
2.2.2	Voltages under normal conditions (V) :	All accessible voltages are less than 42.4 Vp or 60 V dc and are classified as SELV.	P
2.2.3	Voltages under fault conditions (V) :	Under fault conditions voltages never exceed 71 Vp and 120 V dc and do not exceed 42.4 Vp or 60 V dc for more than 0.2 sec.	P
2.2.4	Connection of SELV circuits to other circuits :	SELV circuits are only connected to other secondary circuits.	P
2.3	TNV circuits		P
2.3.1	Limits		P

EN60950-1:2006+A11:2009			
CL.	Requirement of the test	Result--Remark	Verdict
	Type of TNV circuits:	TNV-3 circuits used	—
2.3.2	Separation from other circuits and from accessible parts		P
2.3.2.1	General requirements		P
2.3.2.2	Protection by basic insulation		P
2.3.2.3	Protection by earthing		P
2.3.2.4	Protection by other constructions :		N
2.3.3	Separation from hazardous voltages	Switch Power supply was approved .	N
	Insulation employed:		—
2.3.4	Connection of TNV circuits to other circuits		P
	Insulation employed:		—
2.3.5	Test for operating voltages generated externally		N
2.4	Limited current circuits		N
2.4.1	General requirements		N
2.4.2	Limit values		N
	Frequency (Hz) :		—
	Measured current (mA):		—
	Measured voltage (V):		—
	Measured circuit capacitance (nF or μF) :		—
2.4.3	Connection of limited current circuits to other circuits		N
2.5	Limited power sources		N
	a) Inherently limited output	Switch Power supply was approved .	N
	b) Impedance limited output		N
	c) Regulating network limited output under normal operating and single fault condition		N
	d) Overcurrent protective device limited output		N
	Max. output voltage (V), max. output current (A), max. apparent power (VA):		—

EN60950-1:2006+A11:2009			
CL.	Requirement of the test	Result--Remark	Verdict
	Current rating of overcurrent protective device (A)		—
2.6	Provisions for earthing and bonding		P
2.6.1	Protective earthing		N
2.6.2	Functional earthing		N
2.6.3	Protective earthing and protective bonding conductors		N
2.6.3.1	General		N
2.6.3.2	Size of protective earthing conductors		N
	Rated current (A), cross-sectional area (mm2), AWG:		—
2.6.3.3	Size of protective bonding conductors		N
	Rated current (A), cross-sectional area (mm2), AWG:		—
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min):		N
2.6.3.5	Colour of insulation:		N
2.6.4	Terminals		N
2.6.4.1	General		N
2.6.4.2	Protective earthing and bonding terminals		N
	Rated current (A), type, nominal thread diameter (mm):		—
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N
2.6.5	Integrity of protective earthing		N
2.6.5.1	Interconnection of equipment		N
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N
2.6.5.3	Disconnection of protective earth		N
2.6.5.4	Parts that can be removed by an operator		N
2.6.5.5	Parts removed during servicing		N
2.6.5.6	Corrosion resistance		N
2.6.5.7	Screws for protective bonding		N

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CL.	Requirement of the test	Result--Remark	Verdict
2.6.5.8	Reliance on telecommunication network or cable distribution system		N
2.7	Overcurrent and earth fault protection in primary circuits		N
2.7.1	Basic requirements	Switch Power supply was approved .	N
	Instructions when protection relies on building installation		N
2.7.2	Faults not simulated in 5.3.7	.	N
2.7.3	Short-circuit backup protection		N
2.7.4	Number and location of protective devices :		N
2.7.5	Protection by several devices		N
2.7.6	Warning to service personnel:		N
2.8	Safety interlocks		N
2.8.1	General principles		N
2.8.2	Protection requirements		N
2.8.3	Inadvertent reactivation		N
2.8.4	Fail-safe operation		N
2.8.5	Moving parts		N
2.8.6	Overriding		N
2.8.7	Switches and relays		N
2.8.7.1	Contact gaps (mm) :		N
2.8.7.2	Overload test		N
2.8.7.3	Endurance test		N
2.8.7.4	Electric strength test		N
2.8.8	Mechanical actuators		N
2.9	Electrical insulation		P
2.9.1	Properties of insulating materials		P
2.9.2	Humidity conditioning	See below	P

EN60950-1:2006+A11:2009			
CL.	Requirement of the test	Result--Remark	Verdict
	Relative humidity (%), temperature (°C) :	Humidity is 94% Temperature is 26°C In this condition for 48 hours	—
2.9.3	Grade of insulation	Basic, supplementary, double, reinforced or functional insulation.	P
2.9.4	Separation from hazardous voltages	The accessible conductive parts, including SELV circuits and their related windings, are separated from parts at hazardous voltage by double insulation or reinforced insulation.	P
	Method(s) used :	Method 1 is used.	—
2.10	Clearances, creepage distances and distances through insulation		P
2.10.1	General	Switch Power supply was approved .	P
2.10.1.1	Frequency :		P
2.10.1.2	Pollution degrees :		P
2.10.1.3	Reduced values for functional insulation		P
2.10.1.4	Intervening unconnected conductive parts		P
2.10.1.5	Insulation with varying dimensions		P
2.10.1.6	Special separation requirements		N
2.10.1.7	Insulation in circuits generating starting pulses		N
2.10.2	Determination of working voltage	Working voltage is considered to be within the TNV-3 limits with UDC≤120V, UAC≤70.7Vpk.	N
2.10.2.1	General		N
2.10.2.2	RMS working voltage		N
2.10.2.3	Peak working voltage		N
2.10.3	Clearances		P
2.10.3.1	General		P
2.10.3.2	Mains transient voltages		N
	a) AC mains supply :		N

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CL.	Requirement of the test	Result--Remark	Verdict
	b) Earthed d.c. mains supplies :		N
	c) Unearthed d.c. mains supplies :		N
	d) Battery operation :		N
2.10.3.3	Clearances in primary circuits		N
2.10.3.4	Clearances in secondary circuits		P
2.10.3.5	Clearances in circuits having starting pulses		N
2.10.3.6	Transients from a.c. mains supply :		N
2.10.3.7	Transients from d.c. mains supply :		N
2.10.3.8	Transients from telecommunication networks and cable distribution systems :		N
2.10.4	Creepage distances		P
2.10.4.1	General		P
2.10.4.2	Material group and comparative tracking index	Material group IIIb; 100 <= CTI < 175	-
2.10.4.3	Minimum creepage distances		P
2.10.5	Solid insulation		N
2.10.5.1	General		N
2.10.5.2	Distances through insulation		N
2.10.5.3	Insulating compound as solid insulation		N
2.10.5.4	Semiconductor devices		N
2.10.5.5.	Cemented joints		N
2.10.5.6	Thin sheet material – General	The thin sheet materials of polyester tape used in Transformer.	N
2.10.5.7	Separable thin sheet material		N
	Number of layers (pcs)		—
2.10.5.8	Non-separable thin sheet material		N
2.10.5.9	Thin sheet material – standard test procedure		N
	Electric strength test		N
2.10.5.10	Thin sheet material – alternative test procedure		N
	Electric strength test		N

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CL.	Requirement of the test	Result--Remark	Verdict
2.10.5.11	Insulation in wound components		N
2.10.5.12	Wire in wound components		N
	Working voltage		N
	a) Basic insulation not under stress		N
	b) Basic, supplemetary, reinforced insulation		N
	c) Compliance with Annex U		N
	Two wires in contact inside wound component; angle between 45° and 90°		N
2.10.5.13	Wire with solvent-based enamel in wound components		N
	Electric strength test		N
	Routine test		N
2.10.5.14	Additional insulation in wound components		N
	Working voltage		N
	- Basic insulation not under stress		N
	- Supplemetary, reinforced insulation		N
2.10.6	Construction of printed boards		N
2.10.6.1	Uncoated printed boards		N
2.10.6.2	Coated printed boards		N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N
2.10.6.4	Insulation between conductors on different layers of a printed board		N
	Distance through insulation		N
	Number of insulation layers (pcs)		N
2.10.7	Component external terminations		N
2.10.8	Tests on coated printed boards and coated components		N
2.10.8.1	Sample preparation and preliminary inspection		N
2.10.8.2	Thermal conditioning		N
2.10.8.3	Electric strength test		N
2.10.8.4	Abrasion resistance test		N

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CL.	Requirement of the test	Result--Remark	Verdict
2.10.9	Thermal cycling		N
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N
2.10.11	Tests for semiconductor devices and cemented joints		N
2.10.12	Enclosed and sealed parts		N
3	WIRING, CONNECTIONS AND SUPPLY		P
3.1	General		P
3.1.1	Current rating and overcurrent protection		P
3.1.2	mechan Protection against ical damage	Wires do not touch sharp edges which could damage the insulation and cause 0hazards.	P
3.1.3	Securing of internal wiring		P
3.1.4	Insulation of conductors		P
3.1.5	Beads and ceramic insulators	No beads and ceramic insulators	N
3.1.6	Screws for electrical contact pressure	No screws for electrical contact pressure	N
3.1.7	Insulating materials in electrical connections	No insulating materials used	N
3.1.8	Self-tapping and spaced thread screws		N
3.1.9	Termination of conductors	All conductors are reliable secured.	P
	10 N pull test		P
3.1.10	Sleeving on wiring		N
3.2	Connection to a mains supply		P
3.2.1	Means of connection	An appliance inlet for connector of a detachable power cord is provided	P
3.2.1.1	Connection to an a.c. mains supply	See above	P
3.2.1.2	Connection to a d.c. mains supply		N
3.2.2	Multiple supply connections	Single supply connection	N
3.2.3	Permanently connected equipment	See clause 3.2.1	N
	Number of conductors, diameter of cable and conduits (mm) :		—

EN60950-1:2006+A11:2009			
CL.	Requirement of the test	Result--Remark	Verdict
3.2.4	Appliance inlets		P
3.2.5	Power supply cords		N
3.2.5.1	AC power supply cords		N
	Type :		—
	Rated current (A), cross-sectional area (mm2), AWG :		—
3.2.5.2	DC power supply cords		N
3.2.6	Cord anchorages and strain relief	No cord anchorages and strain relief provided	N
	Mass of equipment (kg), pull (N) :		—
	Longitudinal displacement (mm) :		—
3.2.7	Protection against mechanical damage		N
3.2.8	Cord guards		N
	Diameter or minor dimension D (mm); test mass (g) :		—
	Radius of curvature of cord (mm):		—
3.2.9	Supply wiring space		N
3.3	Wiring terminals for connection of external conductors		N
3.3.1	Wiring terminals	No wiring terminals for connection of external conductors	N
3.3.2	Connection of non-detachable power supply cords		N
3.3.3	Screw terminals		N
3.3.4	Conductor sizes to be connected		N
	Rated current (A), cord/cable type, cross-sectional area (mm2):		—
3.3.5	Wiring terminal sizes		N
	Rated current (A), type, nominal thread diameter (mm) :		—
3.3.6	Wiring terminal design		N
3.3.7	Grouping of wiring terminals		N
3.3.8	Stranded wire		N

EN60950-1:2006+A11:2009			
CL.	Requirement of the test	Result--Remark	Verdict
3.4	Disconnection from the mains supply		P
3.4.1	General requirement	Power supply control switch are considered the disconnect device	P
3.4.2	Disconnect devices	See above	P
3.4.3	Permanently connected equipment	No permanently connected equipment	N
3.4.4	Parts which remain energized	No such parts	N
3.4.5	Switches in flexible cords		N
3.4.6	Number of poles - single-phase and d.c. equipment	Disconnect device disconnects all poles simultaneously	N
3.4.7	Number of poles - three-phase equipment	No three-phase equipment	N
3.4.8	Switches as disconnect devices	Symbol ○ and ｜ are marked on the switch	P
3.4.9	Plugs as disconnect devices	See clause 3.4.1	N
3.4.10	Interconnected equipment	No interconnected equipment	N
3.4.11	Multiple power sources	Single power source	N
3.5	Interconnection of equipment		P
3.5.1	General requirements		P
3.5.2	Types of interconnection circuits :		P
3.5.3	ELV circuits as interconnection circuits	TNV-3 circuits used	P
3.5.4	Data ports for additional equipment	Switch Power supply was approved .	N
4	PHYSICAL REQUIREMENTS		P
4.1	Stability		N
	Angle of 10°		N
	Test force (N) :		N
4.2	Mechanical strength		P

EN60950-1:2006+A11:2009			
CL.	Requirement of the test	Result--Remark	Verdict
4.2.1	General	See below	P
4.2.2	Steady force test, 10 N	10 N were applied to the components. And the EUT is still complying with relevant requirement of this standard after the test.	P
4.2.3	Steady force test, 30 N		N
4.2.4	Steady force test, 250 N	No hazards as a result of the 250N test.	P
4.2.5	Impact test		N
	Fall test		N
	Swing test		N
4.2.6	Drop test; height (mm) :		N
4.2.7	Stress relief test		N
4.2.8	Cathode ray tubes	No such device within EUT.	N
	Picture tube separately certified :		N
4.2.9	High pressure lamps	No such device within EUT.	N
4.2.10	Wall or ceiling mounted equipment; force (N) :	No such equipment type.	N
4.3	Design and construction		P
4.3.1	Edges and corners	The outer surface of the EUT is smooth.	P
4.3.2	Handles and manual controls; force (N):	No such device within EUT	N
4.3.3	Adjustable controls	No control devices.	N
4.3.4	Securing of parts	No connection likely to expose to mechanical stress.	P
4.3.5	Connection by plugs and sockets		N
4.3.6	Direct plug-in equipment		N
	Torque :		—
	Compliance with the relevant mains plug standard :		N
4.3.7	Heating elements in earthed equipment	No heating elements used	N
4.3.8	Batteries	No battery used.	N

EN60950-1:2006+A11:2009			
CL.	Requirement of the test	Result--Remark	Verdict
	- Overcharging of a rechargeable battery		N
	- Unintentional charging of a non-rechargeable battery		N
	- Reverse charging of a rechargeable battery		N
	- Excessive discharging rate for any battery		N
4.3.9	Oil and grease	No such materials within EUT	N
4.3.10	Dust, powders, liquids and gases		N
4.3.11	Containers for liquids or gases	No contain such things	N
4.3.12	Flammable liquids :	No such materials	N
	Quantity of liquid (l) :		N
	Flash point (°C) :		N
4.3.13	Radiation		P
4.3.13.1	General		N
4.3.13.2	Ionizing radiation		N
	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
	Part, property, retention after test, flammability classification :		N
4.3.13.4	Human exposure to ultraviolet (UV) radiation :		N
4.3.13.5	Laser (including LEDs)		P
	Laser class :	Class 1	—
4.3.13.6	Other types :		N
4.4	Protection against hazardous moving parts		N
4.4.1	General	No hazardous moving parts	N
4.4.2	Protection in operator access areas :		N

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CL.	Requirement of the test	Result--Remark	Verdict
4.4.3	Protection in restricted access locations :		N
4.4.4	Protection in service access areas		N
4.5	Thermal requirements		P
4.5.1	General		P
4.5.2	Temperature tests	Complies with test, see appended table 4.5	P
	Normal load condition per Annex L :		—
4.5.3	Temperature limits for materials	see appended table 4.5	P
4.5.4	Touch temperature limits	see appended table 4.5	P
4.5.5	Resistance to abnormal heat :		N
4.6	Openings in enclosures		N
4.6.1	Top and side openings		N
	Dimensions (mm) :		—
4.6.2	Bottoms of fire enclosures		N
	Construction of the bottomm, dimensions (mm) :		—
4.6.3	Doors or covers in fire enclosures		N
4.6.4	Openings in transportable equipment		N
4.6.4.1	Constructional design measures		N
	Dimensions (mm) :		—
4.6.4.2	Evaluation measures for larger openings		N
4.6.4.3	Use of metallized parts		N
4.6.5	Adhesives for constructional purposes		N
	Conditioning temperature (°C), time (weeks):		—
4.7	Resistance to fire		P
4.7.1	Reducing the risk of ignition and spread of flame		P

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CL.	Requirement of the test	Result--Remark	Verdict
	Method 1, selection and application of components wiring and materials	Use of materials complies with the required flammability classes	P
	Method 2, application of all of simulated fault condition tests		N
4.7.2	Conditions for a fire enclosure	With having the following parts: 1. Components in primary circuits 2. components in secondary circuits not supplied by limited power source 3. insulated wiring	P
4.7.2.1	Parts requiring a fire enclosure	See above	P
4.7.2.2	Parts not requiring a fire enclosure		P
4.7.3	Materials		P
4.7.3.1	General		P
4.7.3.2	Materials for fire enclosures	See appended table 1.5.1	P
4.7.3.3	Materials for components and other parts outside fire enclosures		N
4.7.3.4	Materials for components and other parts inside fire enclosures	See above	P
4.7.3.5	Materials for air filter assemblies	No such device within the EUT	N
4.7.3.6	Materials used in high-voltage components		N
5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		P
5.1	Touch current and protective conductor current		P
5.1.1	General		P
5.1.2	Configuration of equipment under test (EUT)		P
5.1.2.1	Single connection to an a.c. mains supply	EUT is treated as a single piece of equipment	P
5.1.2.2	Redundant multiple connections to an a.c. mains supply		N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N
5.1.3	Test circuit		P
5.1.4	Application of measuring instrument	Measuring instrument as in annex D.1 is used	P

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CL.	Requirement of the test	Result--Remark	Verdict
5.1.5	Test procedure		P
5.1.6	Test measurements	See below	P
	Supply voltage (V) :	254.4Vac, 50Hz	—
	Measured touch current (mA) :	0.13mA to enclosure	—
	Max. allowed touch current (mA) :	0.25mA	—
	Measured protective conductor current (mA) :		—
	Max. allowed protective conductor current (mA):		—
5.1.7	Equipment with touch current exceeding 3,5 mA		N
5.1.7.1	General :		N
5.1.7.2	Simultaneous multiple connections to the supply		N
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks		N
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system		N
	Supply voltage (V) :		—
	Measured touch current (mA) :		—
	Max. allowed touch current (mA) :		—
5.1.8.2	Summation of touch currents from telecommunication networks		N
	a) EUT with earthed telecommunication ports :		N
	b) EUT whose telecommunication ports have no reference to protective earth		N
5.2	Electric strength		P
5.2.1	General		P
5.2.2	Test procedure		P
5.3	Abnormal operating and fault conditions		N
5.3.1	Protection against overload and abnormal operation		N
5.3.2	Motors	Switch Power supply was approved .	N

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CL.	Requirement of the test	Result--Remark	Verdict
5.3.3	Transformers		N
5.3.4	Functional insulation:		N
5.3.5	Electromechanical components		N
5.3.6	Audio amplifiers in ITE:	No audio amplifiers	N
5.3.7	Simulation of faults		N
5.3.8	Unattended equipment		N
5.3.9	Compliance criteria for abnormal operating and fault conditions		N
5.3.9.1	During the tests		N
5.3.9.2	After the tests		N
6	CONNECTION TO TELECOMMUNICATION NETWORKS		P
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment		P
6.1.1	Protection from hazardous voltages		P
6.1.2	Separation of the telecommunication network from earth		N
6.1.2.1	Requirements		N
	Supply voltage (V) :		—
	Current in the test circuit (mA) :		—
6.1.2.2	Exclusions :		N
6.2	Protection of equipment users from overvoltages on telecommunication networks		P
6.2.1	Separation requirements		P
6.2.2	Electric strength test procedure		P
6.2.2.1	Impulse test		N
6.2.2.2	Steady-state test		P
6.2.2.3	Compliance criteria		P
6.3	Protection of the telecommunication wiring system from overheating		N
	Max. output current (A) :		—

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CL.	Requirement of the test	Result--Remark	Verdict
	Current limiting method :		—
7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		N
7.1	General		N
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		N
7.3	Protection of equipment users from overvoltages on the cable distribution system		N
7.4	Insulation between primary circuits and cable distribution systems		N
7.4.1	General		N
7.4.2	Voltage surge test		N
7.4.3	Impulse test		N
A	Annex A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N
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.1.1	Samples:		—
	Wall thickness (mm):		—
A.1.2	Conditioning of samples; temperature (°C) :		N
A.1.3	Mounting of samples :		N
A.1.4	Test flame (see IEC 60695-11-3)		N
	Flame A, B, C or D :		—
A.1.5	Test procedure		N
A.1.6	Compliance criteria		N
	Sample 1 burning time (s):		—
	Sample 2 burning time (s):		—
	Sample 3 burning time (s):		—
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)		N

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CL.	Requirement of the test	Result--Remark	Verdict
A.2.1	Samples, material:		—
	Wall thickness (mm):		—
A.2.2	Conditioning of samples; temperature (°C) :		N
A.2.3	Mounting of samples :		N
A.2.4	Test flame (see IEC 60695-11-4)		N
	Flame A, B or C :		—
A.2.5	Test procedure		N
A.2.6	Compliance criteria		N
	Sample 1 burning time (s):		—
	Sample 2 burning time (s):		—
	Sample 3 burning time (s):		—
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9		N
	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.3.1	Mounting of samples		N
A.3.2	Test procedure		N
A.3.3	Compliance criterion		N
B	Annex B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		N
B.1	General requirements		N
	Position :		—
	Manufacturer :		—
	Type :		—
	Rated values :		—

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CL.	Requirement of the test	Result--Remark	Verdict
B.2	Test conditions		N
B.3	Maximum temperatures		N
B.4	Running overload test		N
B.5	Locked-rotor overload test		N
	Test duration (days) :		—
	Electric strength test: test voltage (V) :		—
B.6	Running overload test for d.c. motors in secondary circuits		N
B.6.1	General		N
B.6.2	Test procedure		N
B.6.3	Alternative test procedure		N
B.6.4	Electric strength test; test voltage (V) :		N
B.7	Locked-rotor overload test for d.c. motors in secondary circuits		N
B.7.1	General		N
B.7.2	Test procedure		N
B.7.3	Alternative test procedure		N
B.7.4	Electric strength test; test voltage (V) :		N
B.8	Test for motors with capacitors		N
B.9	Test for three-phase motors		N
B.10	Test for series motors		N
	Operating voltage (V) :		—
C	Annex C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N
	Position :		—
	Manufacturer :		—
	Type :		—
	Rated values :		—
	Method of protection:		—

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CL.	Requirement of the test	Result--Remark	Verdict
C.1	Overload test		N
C.2	Insulation		N
D	Annex D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		N
D.1	Measuring instrument		—
D.2	Alternative measuring instrument		—
E	Annex E, TEMPERATURE RISE OF A WINDING (see 1.4.13)		N
F	Annex F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)		N
G	Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		N
G.1	Clearances		N
G.1.1	General		N
G.1.2	Summary of the procedure for determining minimum clearances		N
G.2	Determination of mains transient voltage (V)		N
G.2.1	AC mains supply :		N
G.2.2	Earthed d.c. mains supplies :		N
G.2.3	Unearthed d.c. mains supplies :		N
G.2.4	Battery operation :		N
G.3	Determination of telecommunication network transient voltage (V) :		N
G.4	Determination of required withstand voltage (V)		N
G.4.1	Mains transients and internal repetitive peaks :		N
G.4.2	Transients from telecommunication networks :		N
G.4.3	Combination of transients		N
G.4.4	Transients from cable distribution systems		N
G.5	Measurement of transient voltages (V)		N

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CL.	Requirement of the test	Result--Remark	Verdict
	a) Transients from a mains supply		N
	For an a.c. mains supply		N
	For a d.c. mains supply		N
	b) Transients from a telecommunication network		N
G.6	Determination of minimum clearances :		N
H	Annex H, IONIZING RADIATION (see 4.3.13)		N
J	Annex J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		N
	Metal(s) used……..:		--
K	Annex K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)		N
K.1	Making and breaking capacity		—
K.2	Thermostat reliability; operating voltage (V) :		—
K.3	Thermostat endurance test; operating voltage (V) :		—
K.4	Temperature limiter endurance; operating voltage (V) :		—
K.5	Thermal cut-out reliability		—
K.6	Stability of operation		N
L	Annex L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)		N
L.1	Typewriters		N
L.2	Adding machines and cash registers		N
L.3	Erasers		N
L.4	Pencil sharpeners		N
L.5	Duplicators and copy machines		N
L.6	Motor-operated files		N
L.7	Other business equipment		N

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CL.	Requirement of the test	Result--Remark	Verdict
M	Annex M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		N
M.1	Introduction		N
M.2	Method A		N
M.3	Method B		N
M.3.1	Ringing signal		N
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
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N
M.3.2.2	Tripping device		N
M.3.2.3	Monitoring voltage (V) :		N
N	Annex N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)		N
N.1	ITU-T impulse test generators		N
N.2	IEC 60065 impulse test generator		N
P	Annex P, NORMATIVE REFERENCES		—
Q	Annex Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)		N
	a) Preferred climatic categories :		N
	b) Maximum continuous voltage :		N
	c) Pulse current :		N
R	Annex R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		N
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)		N

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CL.	Requirement of the test	Result--Remark	Verdict
R.2	Reduced clearances (see 2.10.3)		N
S	Annex S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		N
S.1	Test equipment		N
S.2	Test procedure		N
S.3	Examples of waveforms during impulse testing		N
T	Annex T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		N
		See separate test report	—
U	Annex U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		N
		See separate test report	—
V	Annex V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)		N
V.1	Introduction		N
V.2	TN power distribution systems		N
W	Annex W, SUMMATION OF TOUCH CURRENTS		N
W.1	Touch current from electronic circuits		N
W.1.1	Floating circuits		N
W.1.2	Earthed circuits		N
W.2	Interconnection of several equipments		N
W.2.1	Isolation		N
W.2.2	Common return, isolated from earth		N
W.2.3	Common return, connected to protective earth		N
X	Annex X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)		N

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CL.	Requirement of the test	Result--Remark	Verdict
X.1	Determination of maximum input current		N
X.2	Overload test procedure		N
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		N
Y.1	Test apparatus :		N
Y.2	Mounting of test samples :		N
Y.3	Carbon-arc light-exposure apparatus :		N
Y.4	Xenon-arc light exposure apparatus :		N
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)		N
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N
BB	ANNEX BB, CHANGES IN THE SECOND EDITION		—

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CL.	Requirement of the test	Result--Remark	Verdict

1.5.1	Table: list of critical components			P
Part no.	Manufacturer/trademark	Type/mode	Technical data	Certified mark
Enclosure (Front)	Various	Various	V-0 or better, 80℃ or better	UL
PCB	Various	Various	V-1 or better,105℃	UL
Internal wire	Various	Various	300Vac, 105℃	UL
Switch power supply	Various	Various	Input :220-240Vac,50/60Hz,1.5A Output :DC 3.3V/14A DC 5V/16A DC12V/14A	CE,TUV,GS, VDE
DVD Writer Model	Various	Various	Rating :DC 5V,12V Class 1 Laser product	CE,TUV

1.6.2	Table: Electrical data (in normal conditions)					P
Fuse#	I rated (A)	U (Vac\Hz)	I (A)	P (W)	Condition /status	
F1	---	198V/50Hz	0.358	54.3	Normal operation condition	
F1	1.5	220V/50Hz	0.336	55.1	Normal operation condition	
F1	1.5	240V/50Hz	0.323	56.2	Normal operation condition	
F1	---	254.4V/50Hz	0.318	56.7	Normal operation condition	
F1	---	198V/60Hz	0.358	54.3	Normal operation condition	
F1	1.5	220V/60Hz	0.337	55.1	Normal operation condition	
F1	1.5	240V/60Hz	0.325	56.3	Normal operation condition	
F1	---	254.4V/60Hz	0.319	56.7	Normal operation condition	

4.5.1	TABLE: maximum temperatures		P
	test voltage (V) ..... :	254.4Vac/50Hz	—
	t_{amb1} (°C) ..... :	24.7	—
	t_{amb2} (°C) ..... :	25.0	—
maximum temperature T of part/at::		T (°C)	allowed T_{max} (°C)
Switch Power Supply		28.2	70

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CL.	Requirement of the test	Result--Remark	Verdict

Internal wire	28.3	105
CD-ROM	27.4	70
PCB	27.6	105
Power switch	28.3	85
Plastic enclosure (front)	28.7	95
Appliance Inlet	28.1	95
Enclosure inside	28.2	70
Enclosure outside near PCB (side)	28.3	70
Enclosure outside near Switch Power Supply (Top)	27.9	70

EUT Photos

Photo 1 View of EUT

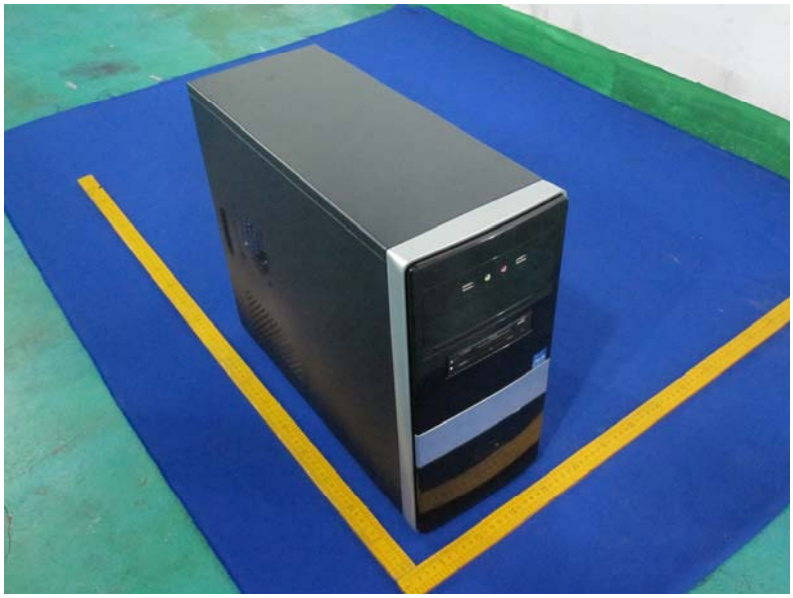


Photo 2 View of EUT

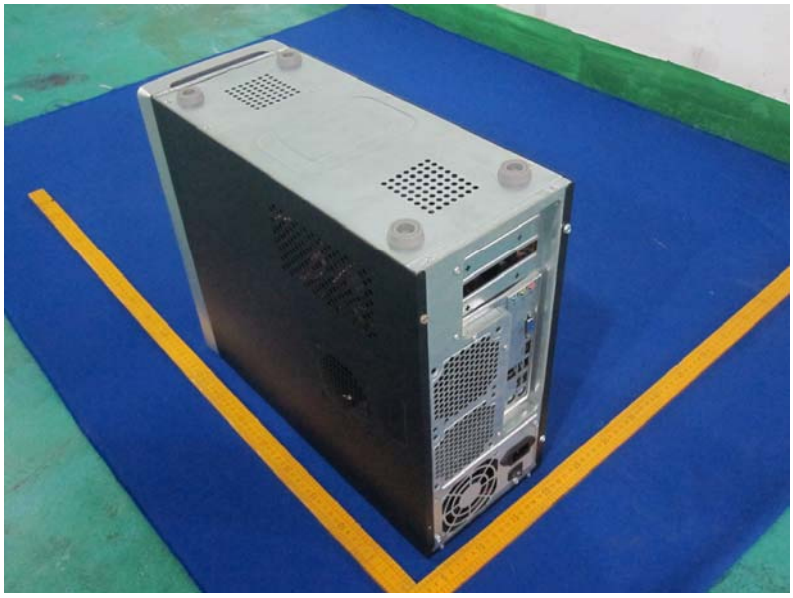
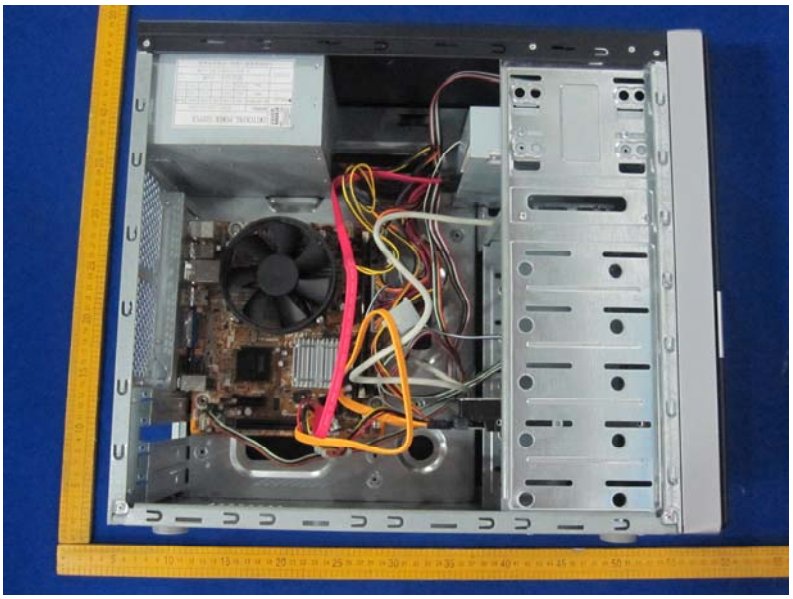


Photo 3 View of EUT

Photo 4 View of EUT



END OF REPORT