TEST REPORT

EN 60950-1

Information Technology Equipment – Safety – Part 1: General Requirements

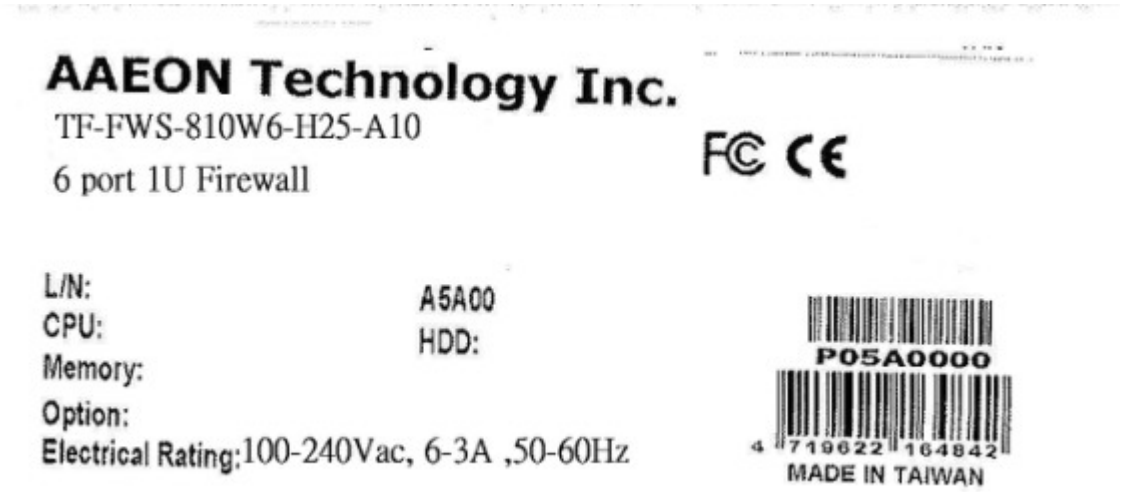
Test Report No.: L070606-08

Client	
Name :	**AAEON TECHNOLOGY INC**
Address :	**5TH FL 135 LANE 235 PAO CHIAO RD HSIN-TIEN, TAIPEI TAIWAN**
Test Item :	**6 port 1U Firewall**
Identification :	**xxxxFWS-810xx-xxx-xxx-xxx, where "x" can be 0-9 , A-Z , - or blank**
Testing laboratory	
Name :	**Prodigy Technology Consultant Co., Ltd.**
Address :	**1FL, No. 30, Sec. 1, Wunhua 1st Rd., Linkou, Taipei County 24447, Taiwan, R.O.C**
Test specification	
Standard :	**EN 60950-1: 2001**
Test Result :	The test item passed.
Prepared By :	Signature: Frank Chang — Date: June, 14. 2007
	Frank Chang
	Engineer
Approved By:	Signature — Date: June 14, 2007
	Danny Lin
	Manager

Other Aspects:	
The completed test report includes the following documents:	
■ EN 60950-1 report (35 pages)	

TEST REPORT EN 60950-1:2001 Information technology equipment – Safety – Part 1: General requirements	
Report	
Reference No.	L070606-08
Compiled by (+ signature)	See cover sheet
Approved by (+ signature)	See cover sheet
Date of issue	June 14, 2007
Testing laboratory	
Name	Prodigy Technology Consultant Co., Ltd.
Address	1FL, No. 30, Sec. 1, Wunhua 1st Rd., Linkou, Taipei County 24447, Taiwan, R.O.C
Testing location	Prodigy Technology Consultant Co., Ltd.
Address	1FL, No. 30, Sec. 1, Wunhua 1st Rd., Linkou, Taipei County 24447, Taiwan, R.O.C
Client	
Name	AAEON TECHNOLOGY INC
Address	5TH FL 135 LANE 235 PAO CHIAO RD HSIN-TIEN, TAIPEI TAIWAN
Test specification	
Standard	EN 60950-1: 2001
Test procedure	CE Marking serial in LVD
Procedure deviation	N/A.
Non-standard test method	N/A.
Test Report Form/blank test report	
Test Report Form No.	IECEN60950_1B
TRF originator.	SGS Fimko Ltd
Master TRF	dated 2003-03
Test item	
Description	6 port 1U Firewall
Trademark	AAEON
Model and/or type reference	xxxxFWS-810xx-xxx-xxx-xxx where "x" can be 0-9 , A-Z , - or blank
Manufacturer	AAEON TECHNOLOGY INC
Rating(s)	100-240Vac , 6-3A , 50-60Hz

Copy of marking plate and summary of test results (information/comments):



These are reference Labels. Final label shall be including the content of it.

Particulars: test item vs. test requirements	
Equipment mobility	Movable
Operating condition	Continuous
Mains supply tolerance (%)	± 10%
Tested for IT power systems	Yes
IT testing, phase-phase voltage (V)	IT, 230V (for Norway)
Class of equipment	Class I
Mass of equipment (kg)	8 kg
Protection against ingress of water	IPX0
Possible test case verdicts:	
- test case does not apply to the test object	N/A
- test object does meet the requirement	Pass
- test object does not meet the requirement	Fail
Testing	
Date of receipt of test item	May 14, 2007
Date(s) of performance of test	May 23, 2007

General remarks:

This test report shall not be reproduced except in full without the written approval of the testing laboratory.
The test results presented in this report relate only to the item tested.

- "(see Enclosure #)" refers to additional information appended to the Report.
- "(see appended table)" refers to a table appended to the Report.

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

Brief description of the test equipment:

1) The equipment is a class I 6 port 1U Firewall
2) Maximum operating Temperature: 40℃.
3) Dimension: 430 by 380 by 44 mm.

Test condition:

Temperature: 25℃.
Relative humidity: 60%.
Air pressure: 950 mbar.
The test sample was a pre-production sample without serial number.

EN 60950-1:2001			
Clause	Requirement + Test	Result - Remark	Verdict
1	**GENERAL**		Pass
1.5	**Components**		Pass
1.5.1	Comply with IEC 60950 or relevant component standard	Components, which were found to affect safety aspects, are complied with the requirements of this standard or within the safety aspects of the relevant IEC component standards. (see appended table 1.5.1)	Pass
1.5.2	Evaluation and testing of components	Components which are certified to IEC and/or nation standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	Pass
1.5.3	Thermal controls	No Thermal controls.	N/A
1.5.4	Transformers	Investigated in the approved power supply.	Pass
1.5.5	Interconnecting cables		N/A
1.5.6	Capacitors in primary circuits	Investigated in the approved power supply.	Pass
1.5.7	Double or reinforced insulation bridged by components	Investigated in the approved power supply.	Pass
1.5.7.1	General		N/A
1.5.7.2	Bridging capacitors		N/A
1.5.7.3	Bridging resistors	No such part.	N/A
1.5.7.4	Accessible parts	Ditto.	N/A
1.5.8	Components in equipment for IT power systems	Evaluated in the certification of power supply.	Pass
1.6	**Power interface**		Pass
1.6.1	AC power distribution systems	TN and IT power system.	Pass
1.6.2	Input current	(See appended table 1.6.2)	Pass
1.6.3	Voltage limit of hand-held equipment		N/A
1.6.4	Neutral conductor	Investigated in the approved power supply.	Pass
1.7	**Marking and instructions**		Pass
1.7.1	Power rating	See below.	Pass
	Rated voltage(s) or voltage range(s) (V)	100-240Vac	Pass

EN 60950-1:2001			
Clause	Requirement + Test	Result - Remark	Verdict
	Symbol for nature of supply for d.c.	The equipment was supplied by AC.	N/A
	Rated frequency or frequency range (Hz)	50-60Hz	Pass
	Rated current (A)	6-3A	Pass
	Manufacturer's name/Trademark.	AAEON	Pass
	Type/model.	xxxxFWS-810xx-xxx-xxx-xxx where "x" can be 0-9 , A-Z , - or blank	Pass
	Symbol of Class II	Class I equipment.	N/A
	Other symbols	No provided.	N/A
	Certification marks	CE	Pass
1.7.2	Safety instructions	The users manual provided.	Pass
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N/A
1.7.4	Supply voltage adjustment	No voltage selector.	N/A
1.7.5	Power outlets on the equipment	No power outlets.	N/A
1.7.6	Fuse identification	Evaluated in the approved power supply.	Pass
1.7.7	Wiring terminals	See below.	Pass
1.7.7.1	Protective earthing and bonding terminals	Evaluated in the approved power supply.	Pass
1.7.7.2	Terminal for a.c. mains supply conductors	Appliance inlet provided.	Pass
1.7.7.3	Terminals for d.c. mains supply conductors		N/A
1.7.8	Controls and indicators	See below.	Pass
1.7.8.1	Identification, location and marking	Investigated in the approved power supply.	Pass
1.7.8.2	Colours	No safety involved colour identification.	N/A
1.7.8.3	Symbols according to IEC 60417	Switch marked with the symbol; "I" for ON and "0" for OFF provided by the approved power supply.	Pass
1.7.8.4	Markings using figures		N/A
1.7.9	Isolation of multiple power sources		N/A
1.7.10	IT power system	Evaluated in the approved power supply.	Pass
1.7.11	Thermostats and other regulating devices	No thermostat or other regulating devices.	N/A
1.7.12	Language	Instruction and equipment marking are in English, safety related information will be in a language which is acceptable in the country in which the equipment is to be installed.	Pass

EN 60950-1:2001			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.13	Durability	The label was subjected to the test for permanence of marking. The label was rubbed with cloth for 15s. And then rubbed by the cloth soaked with Naphtha for 15s. After this test there was no damage to the label. The marking on the label did not fade. There was no curling nor lifting on the label edge.	Pass
1.7.14	Removable parts	Markings is not placed on removable parts	Pass
1.7.15	Replaceable batteries	The marking was provided in the user manual.	Pass
	Language	English Version.	—
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	No restricted access location	N/A
2	**PROTECTION FROM HAZARDS**		Pass
2.1	**Protection from electric shock and energy hazards**		Pass
2.1.1	Protection in OPERATOR access areas	Supplied by SELV.	Pass
2.1.1.1	Access to energized parts	The EUT is supplied from an approved power supply that provides only SELV.	Pass
	Test by inspection	See below.	Pass
	Test with test finger	The test finger was unable to contact bare hazardous parts.	Pass
	Test with test pin	The test pin was unable to contact bare hazardous parts.	Pass
	Test with test probe	No TNV circuit.	N/A
2.1.1.2	Battery compartments	No battery compartment provided in TNV circuit.	N/A
2.1.1.3	Access to ELV wiring	No ELV wiring in operator accessible area.	N/A
	Working voltage (V); distance (mm) through insulation	Ditto.	—
2.1.1.4	Access to hazardous voltage circuit wiring	No hazardous voltage wiring in operator accessible area.	Pass
2.1.1.5	Energy hazards	No energy hazard in operator access area. The connectors of the equipment below 240VA.	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
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 the primary circuit	Evaluation with acceptable result in the approved power supply.	Pass
	Time-constant (s); measured voltage (V)	Ditto.	—
2.1.2	Protection in service access areas	No maintenance work in operation mode necessary.	N/A
2.1.3	Protection in restricted access locations	It is not intended to be used in restricted locations.	N/A
2.2	**SELV circuits**		Pass
2.2.1	General requirements	No hazardous voltage generated inside.	Pass
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.	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 or reinforced insulation (method 1)	Evaluated in the approved power supply.	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 connected to other SELV circuits.	Pass
2.3	**TNV circuits**		N/A
2.3.1	Limits		N/A
	Type of TNV circuits		—
2.3.2	Separation from other circuits and from accessible parts		N/A
	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
2.4	**Limited current circuits**		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.4.1	General requirements		N/A
2.4.2	Limit values		N/A
	Frequency (Hz)		—
	Measured current (mA)		—
	Measured voltage (V)		—
	Measured capacitance (μF)		—
2.4.3	Connection of limited current circuits to other circuits		N/A
2.5	**Limited power sources**		Pass
	Inherently limited output	(See appended table 2.5)	Pass
	Impedance limited output		N/A
	Overcurrent protective device limited output		N/A
	Regulating network limited output under normal operating and single fault condition	The USB outputs had been evaluated and found to comply with the Limited Power Sources.	Pass
	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)	(See appended table 2.5)	—
	Current rating of overcurrent protective device (A)		—
2.6	**Provisions for earthing and bonding**		Pass
2.6.1	Protective earthing	Evaluated in the approved power supply.	Pass
2.6.2	Functional earthing	Evaluated in the approved power supply.	Pass
2.6.3	Protective earthing and protective bonding conductors		Pass
2.6.3.1	General	The power supply cord shall be provided during separated national approval.	N/A
2.6.3.2	Size of protective earthing conductors		Pass
	Rated current (A), cross-sectional area (mm^2), AWG	Cross sectional area of 0.75 mm^2 minimum.	—
2.6.3.3	Size of protective bonding conductors		Pass
	Rated current (A), cross-sectional area (mm^2), AWG	18 AWG internal wiring as bonding conductor.	—
2.6.3.4	Rated current (A), type and nominal thread diameter (mm)	Evaluated with the approved power supply.	Pass
	Resistance (Ω) of earthing conductors and their terminations, test current (A)	0.006Ω, test current : 25A.	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
2.6.3.5	Colour of insulation	Evaluated in the approved power supply.	Pass
2.6.4	Terminals	See below.	Pass
2.6.4.1	General	Detachable power cord used.	Pass
2.6.4.2	Protective earthing and bonding terminals	Appliance inlet used.	Pass
	Rated current (A), type and nominal thread diameter (mm)	Appliance inlet used.	—
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		Pass
2.6.5	Integrity of protective earthing	See below.	Pass
2.6.5.1	Interconnection of equipment	No interconnected equipment.	N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	No switches or fuses in earthing conductors and protective bonding conductors.	Pass
2.6.5.3	Disconnection of protective earth	Appliance inlet used.	Pass
2.6.5.4	Parts that can be removed by an operator	No removable parts in protective earthing path.	Pass
2.6.5.5	Parts removed during servicing	Appliance inlet used.	Pass
2.6.5.6	Corrosion resistance	No risk of corrosion.	Pass
2.6.5.7	Screws for protective bonding		Pass
2.6.5.8	Reliance on telecommunication network or cable distribution system	No TNV.	N/A
2.7	**Overcurrent and earth fault protection in primary circuits**		Pass
2.7.1	Basic requirements	Class I equipment.	Pass
	Instructions when protection relies on building installation	The circuit breaker served as the backup protection.	Pass
2.7.2	Faults not covered in 5.3		Pass
2.7.3	Short-circuit backup protection	Building instruction.	Pass
2.7.4	Number and location of protective devices		Pass
2.7.5	Protection by several devices		N/A
2.7.6	Warning to service personnel		N/A
2.8	**Safety interlocks**		N/A
2.8.1	General principles	No provided interlock.	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	Interlocks with moving parts		N/A
2.8.6	Overriding an interlock		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.8.7	Switches and relays in interlock systems		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 (V)		N/A
2.8.8	Mechanical actuators		N/A
2.9	**Electrical insulation**		Pass
2.9.1	Properties of insulating materials	Electric strength test conducted after the humidity treatment.	Pass
2.9.2	Humidity conditioning	Humidity treatment performed to 48 hrs in condition: 95%, 25°C.	Pass
2.9.3	Requirements for insulation	No flash over or breakdown of insulation.	Pass
2.9.4	Insulation parameters	(See 2.9.5, 2.10.2 and 5.2.)	Pass
2.9.5	Grade of insulation	Functional, Supplementary and Reinforced.	Pass
2.10	**Clearances, creepage distances and distances through insulation**		Pass
2.10.1	General	Evaluated during the power supply certification.	Pass
2.10.2	Determination of working voltage	Evaluated during the power supply certification.	Pass
2.10.3	Clearances	Evaluated during the power supply certification.	Pass
2.10.3.1	General	Ditto.	Pass
2.10.3.2	Clearances in primary circuit	Evaluated during the power supply certification. (see appended table 2.10.3 and 2.10.4)	Pass
2.10.3.3	Clearances in secondary circuits	Functional insulation.	Pass
2.10.3.4	Measurement of transient levels		N/A
2.10.4	Creepage distances	Evaluated during the power supply certification (see appended table 2.10.3 and 2.10.4).	Pass
	CTI tests		—
2.10.5	Solid insulation	Evaluated during the power supply certification.	Pass
2.10.5.1	Minimum distance through insulation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.10.5.2	Thin sheet material	Evaluated during the power supply certification.	Pass
	Number of layers (pcs)		—
	Electric strength test		—
2.10.5.3	Printed boards		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
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 $T_1=T_2 = T_{mra} - T_{amb} +10K$ (°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
3	**WIRING, CONNECTIONS AND SUPPLY**		Pass
3.1	**General**		Pass
3.1.1	Current rating and overcurrent protection	Adequate cross sectional areas on internal wiring.	Pass
3.1.2	Protection against mechanical damage	Smooth and free of sharp edges.	Pass
3.1.3	Securing of internal wiring	Wiring are reliably routed and secured where appropriate.	Pass
3.1.4	Insulation of conductors	Wire insulations are suitable for the application.	Pass
3.1.5	Beads and ceramic insulators	Not used.	N/A
3.1.6	Screws for electrical contact pressure		Pass
3.1.7	Non-metallic materials in electrical connections	No contact pressure through insulating materials.	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
3.1.8	Self-tapping and spaced thread screws	No space thread screws / thread-cutting screws used.	N/A
3.1.9	Termination of conductors		N/A
	10 N pull test		N/A
3.1.10	Sleeving on wiring		N/A
3.2	**Connection to a.c. mains supplies**		Pass
3.2.1	Means of connection	Appliance inlet provided.	Pass
3.2.1.1	Connection to an a.c. mains supply	Appliance inlet provided.	Pass
3.2.1.2	Connection to a d.c. mains supply		N/A
3.2.2	Multiple supply connections	Only one supply connection.	N/A
3.2.3	Permanently connected equipment	Not permanently connected.	N/A
	Number of conductors, diameter (mm) of cable and conduits		—
3.2.4	Appliance inlets	Appliance inlet complies with IEC 60320.	Pass
3.2.5	Power supply cords	Power supply cord not provided. A power supply cord suitable for the application and subject to country's national code and regulations is to be provided by the manufacturer; to be determined by the country's local certification body.	N/A
3.2.5.1	AC power supply cords		N/A
	Type		—
	Rated current (A), cross-sectional area (mm^2), AWG		—
3.2.5.2	DC power supply cords		N/A
3.2.6	Cord anchorages and strain relief		N/A
	Mass of equipment (kg), pull (N)		—
	Longitudinal displacement (mm)		—
3.2.7	Protection against mechanical damage		N/A
3.2.8	Cord guards		N/A
	D (mm); test mass (g)		—
	Radius of curvature of cord (mm)		—
3.2.9	Supply wiring space		N/A
3.3	**Wiring terminals for connection of external conductors**		N/A
3.3.1	Wiring terminals	Appliance inlet used.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.3.2	Connection of non-detachable power supply cords	Appliance inlet used.	N/A
3.3.3	Screw terminals		N/A
3.3.4	Rated current (A), cord/cable type, cross-sectional area (mm^2)		N/A
3.3.5	Rated current (A), type and nominal thread diameter (mm)		N/A
3.3.6	Wiring terminals design		N/A
3.3.7	Grouping of wiring terminals		N/A
3.3.8	Stranded wire		N/A
3.4	**Disconnection from the a.c. mains supply**		Pass
3.4.1	General requirement	Appliance inlet used.	Pass
3.4.2	Disconnect devices	Appliance inlet used.	Pass
3.4.3	Permanently connected equipment	Not a permanent connected equipment.	N/A
3.4.4	Parts which remain energized	No parts remain energized in the equipment when appliance coupler is disconnected.	Pass
3.4.5	Switches in flexible cords	Appliance inlet used.	N/A
3.4.6	Single-phase equipment	The appliance inlet disconnects both poles simultaneously.	Pass
3.4.7	Three-phase equipment	Single phase equipment.	N/A
3.4.8	Switches as disconnect devices	No switch served as the disconnect device.	N/A
3.4.9	Plugs as disconnect devices	The appliance inlet is regarded as the disconnect device, no marking is required.	N/A
3.4.10	Interconnected equipment	No interconnection of hazardous voltages.	N/A
3.4.11	Multiple power sources	The equipment only receives power from one source.	N/A
3.5	**Interconnection of equipment**		Pass
3.5.1	General requirements	See below.	Pass
3.5.2	Types of interconnection circuits	SELV circuits.	Pass
3.5.3	ELV circuits as interconnection circuits	No ELV interconnection.	N/A
4	**PHYSICAL REQUIREMENTS**		Pass

EN 60950-1:2001			
Clause	Requirement + Test	Result - Remark	Verdict
4.1	**Stability**		Pass
	Angle of 10°	The unit did not fall over	Pass
	Test: force (N)	Not floor standing unit.	N/A
4.2	**Mechanical strength**		Pass
4.2.1	General	See below.	Pass
4.2.2	Steady force test, 10 N	10 N were applied to components. No energy or other hazards.	Pass
4.2.3	Steady force test, 30 N	No internal enclosure in operator access area.	N/A
4.2.4	Steady force test, 250 N	250N applied to outer enclosure. No energy or other hazards.	Pass
4.2.5	Impact test	The enclosure withstood the impact test.	Pass
4.2.6	Drop test		N/A
4.2.7	Stress relief	No thermalplastic parts served as the enclosure.	N/A
4.2.8	Cathode ray tubes	No such part.	N/A
	Picture tube separately certified	Ditto.	N/A
4.2.9	High pressure lamps	The equipment does not have any high pressure lamps.	N/A
4.2.10	Wall or ceiling mounted equipment; force (N)	Weight of the equipment: 6.61kg , Force applied: 19.9 kg, which was 3 times the weight of the equipment. The mounting means did not withstand the force applied without breaking or damaging the mounting bracket, its securing means, or that portion of the unit to which it was attached.	Pass
4.3	**Design and construction**		Pass
4.3.1	Edges and corners	Edges and corners are rounded.	Pass
4.3.2	Handles and manual controls; force (N)	Total 2 handles, provided 130N force for loading test.	Pass
4.3.3	Adjustable controls	The equipment does not have a voltage selector.	N/A
4.3.4	Securing of parts	Evaluated in the approved power supply.	Pass
4.3.5	Connection of plugs and sockets	No such part.	N/A
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	N/A

EN 60950-1:2001			
Clause	Requirement + Test	Result - Remark	Verdict
	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	No heating elements.	N/A
4.3.8	Batteries	Battery is an approved component, performed test for RTC battery which is protected by a resistor (R286, 1K Ohm) and a diode D5. (see appended table 5.3)	Pass
4.3.9	Oil and grease	The insulation of the internal wiring is not exposed to oil, grease, etc.	N/A
4.3.10	Dust, powders, liquids and gases	The equipment does not produce dust or employ powders, liquids or gases.	N/A
4.3.11	Containers for liquids or gases	The equipment does not contain liquids.	N/A
4.3.12	Flammable liquids	The equipment does not use any flammable liquids.	N/A
	Quantity of liquid (l)		N/A
	Flash point (°C)		N/A
4.3.13	Radiation; type of radiation	See below.	Pass
4.3.13.1	General		Pass
4.3.13.2	Ionizing radiation		N/A
	Measured radiation (pA/kg)		N/A
	Measured high-voltage (kV)		N/A
	Measured focus voltage (kV)		N/A
	CRT markings		N/A
4.3.13.3	Effect of ultraviolet (UV) radiation on materials		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation		N/A
	Part, property, retention after test, flammability classification		N/A
4.3.13.5	Laser (including LEDs)	LED below the limit of laser class I .	Pass
	Laser class		Pass
4.3.13.6	Other types		N/A

4.4	**Protection against hazardous moving parts**		Pass
4.4.1	General	See below.	Pass
4.4.2	Protection in operator access areas	The fan was not accessible.	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
4.4.3	Protection in restricted access locations	No hazardous moving part in restricted access areas.	N/A
4.4.4	Protection in service access areas	No hazardous moving part in service access areas	N/A
4.5	**Thermal requirements**		Pass
4.5.1	Temperature rises	(See appended table 4.5)	Pass
	Normal load condition per Annex L		N/A
4.5.2	Resistance to abnormal heat		N/A
4.6	**Openings in enclosures**		Pass
4.6.1	Top and side openings	No top openings. No hazardous parts located within the area of 5 degree vertical projection from the side openings.	Pass
	Dimensions (mm)	Provided numerous of oval shape openings on both side,each measured 3.3 mm maximum, and numerous of hexagon shape openings behind the heatsink,each measured 7.1 mm maximum.	—
4.6.2	Bottoms of fire enclosures	No bottom openings	Pass
	Construction of the bottom		—
4.6.3	Doors or covers in fire enclosures		N/A
4.6.4	Openings in transportable equipment	Not a transportable equipment.	N/A
4.6.5	Adhesives for constructional purposes		N/A
	Conditioning temperature/time		—
4.7	**Resistance to fire**		Pass
4.7.1	Reducing the risk of ignition and spread of flame	Use of materials with the required flammability clases. Method 1: Selection and application of components and materials which minimize the possibility of ignition and spread of flame.	Pass
	Method 1, selection and application of components wiring and materials	(See appended table 1.5.1).	Pass
	Method 2, application of all of simulated fault condition tests		N/A
4.7.2	Conditions for a fire enclosure	The metal enclosure served as the fire enclosure.	Pass
4.7.2.1	Parts requiring a fire enclosure	The metal enclosure served as the fire enclosure.	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
4.7.2.2	Parts not requiring a fire enclosure		N/A
4.7.3	Materials	See below.	Pass
4.7.3.1	General	(See appended table 1.5.1)	Pass
4.7.3.2	Materials for fire enclosures	The metal enclosure served as the fire enclosure.	Pass
4.7.3.3	Materials for components and other parts outside fire enclosures	Rated HB or better.	Pass
4.7.3.4	Materials for components and other parts inside fire enclosures	Rated V-2 or better.	Pass
4.7.3.5	Materials for air filter assemblies	No air filter assemblies.	N/A
4.7.3.6	Materials used in high-voltage components	No high-voltage components.	N/A
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)		N/A
5.1.3	Test circuit		Pass
5.1.4	Application of measuring instrument	Measuring circuit in Annex D.1 used.	Pass
5.1.5	Test procedure		Pass
5.1.6	Test measurements	See below.	Pass
	Test voltage (V)	264V	—
	Measured current (mA)	Max. 2.14 mA.	—
	Max. allowed current (mA)	3.5 mA r.m.s	—
5.1.7	Equipment with touch current exceeding 3.5 mA		N/A
5.1.8	Touch currents to and from telecommunication networks	No TNV circuit.	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network		N/A
	Test voltage (V)		—
	Measured current (mA)		—
	Max. allowed current (mA)		—
5.1.8.2	Summation of touch currents from telecommunication networks		N/A
5.2	**Electric strength**		Pass

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Clause	Requirement + Test	Result - Remark	Verdict
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	(See appended 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	Evaluated during the Fan certification.	Pass
5.3.3	Transformers	Evaluated during the Power Supply certification. (See appended Annex C)	Pass
5.3.4	Functional insulation	Functional insulation complies with the requirements (a), (b), or (c).	Pass
5.3.5	Electromechanical components	No electromechanical component.	N/A
5.3.6	Simulation of faults	(See appended table 5.3)	Pass
5.3.7	Unattended equipment	The equipment does not have any thermostats, temperature limiters, or thermal cut-outs.	N/A
5.3.8	Compliance criteria for abnormal operating and fault conditions	See below.	Pass
5.3.8.1	During the tests	No fire propagated beyond the equipment. No molten metal was emitted.	Pass
5.3.8.2	After the tests	Ditto.	Pass
6	**CONNECTION TO TELECOMMUNICATION NETWORKS**		N/A
6.1	**Protection of telecommunication network service personnel, and users of other equipment connected to the network, from hazards in the equipment**		N/A
6.1.1	Protection from hazardous voltages	No provided TNV circuit.	N/A
6.1.2	Separation of the telecommunication network from earth		N/A
6.1.2.1	Requirements		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

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Clause	Requirement + Test	Result - Remark	Verdict
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 telecommunication wiring system from overheating**		N/A
	Max. output current (A)		—
	Current limiting method		—
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	No provided cable distribution system.	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

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Clause	Requirement + Test	Result - Remark	Verdict
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, material		—
	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)		—
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.2.6	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		—
A.3.2	Test procedure		—
A.3.3	Compliance criterion		N/A
B	**ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)**		Pass

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Clause	Requirement + Test	Result - Remark	Verdict
B.1	General requirements	Certified fan used.	Pass
	Position		—
	Manufacturer	(See appended table 1.5.1)	—
	Type	(See appended table 1.5.1)	—
	Rated values	(See appended table 1.5.1)	—
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 DC motors in secondary circuits		N/A
B.7	Locked-rotor overload test for DC motors in secondary circuits		Pass
B.7.1	Test procedure	Certified fan used.	Pass
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)		—

C	**ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)**		Pass
	Position	Evaluated during the power supply certification.	—
	Manufacturer		—
	Type		—
	Rated values		—
	Method of protection		
C.1	Overload test		N/A
C.2	Insulation	Evaluated during the power supply certification.	Pass

D	**Annex D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS**		Pass
D.1	Measuring instrument		Pass

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Clause	Requirement + Test	Result - Remark	Verdict
D.2	Alternative measuring instrument		N/A
E	**Annex E, TEMPERATURE RISE OF A WINDING**		N/A
F	**Annex F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10)**		N/A
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.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
	Ionizing radiation		N/A
	Measured radiation (mR/h)		—
	Measured high-voltage (kV)		—
	Measured focus voltage (kV)		—
	CRT markings		—
J	**ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)**		N/A
	Metal used		—
K	**ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.7)**		N/A
K.1	Making and breaking capacity		N/A
K.2	Thermostat reliability; operating voltage (V)		N/A
K.3	Thermostat endurance test; operating voltage (V)		N/A
K.4	Temperature limiter endurance; operating voltage (V)		N/A
K.5	Thermal cut-out reliability		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
K.6	Stability of operation		N/A
L	**Annex L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)**		N/A
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		N/A
M	**ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)**		N/A
M.2	Method A		N/A
M.3	Method B		N/A
M.3.1	Ringing signal		N/A
M.3.1.1	Frequency (f)		—
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
P	**Annex P, NORMATIVE REFERENCES**		N/A
Q	**Annex Q, BIBLIOGRAPHY**		N/A

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

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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])
Power Supply	FSP Group Inc.	FSP250-601U	I/P: 100-240 Vac, 50-60 Hz, 6-3A. O/P: +3.3V/16A, +5V/25A, +12V/ 13A, -5V/0.5A, -12V/0.8A, +5Vsb/2A, +5V and +3.3V maximum 145W, total output power 250W maximum Provided a power switch and AC inlet.	EN 60950-1: 2001 IEC 60950-1: 2001	Nemko (order. No. 49341) Nemko CB (Certificate No. NO 33316)
Hard Disk Drive (Optional)	--	--	5/12Vdc, 1.5/1.5A max.	EN 60950-1	TUV
Polyswitch for USB Port	Tyco Electronics Corp Raychem Circuit Protection Div	miniSMDC110	8Vdc, 1.1 A	EN 60730-1	TUV
RTC Battery	Sony Energy Devices Corp	CR2032	Maximum abnormal charging current 10mA.	UL 1642	UL
System Fan (three provided)	Sunonwealth Electric Machine Industry Co., Ltd.	KDE1204PKVX	12Vdc, 0.12A, 10.8CFM	EN 60950-1	TUV
PWB	--	--	V-1 or better, 105℃	UL 796	UL
Heatsink	--	--	L type , Without metal flake above CPU, Overall 207.5 by 181.17 by 38 mm	--	--
Alternate of Heatsink	--	--	L type , With metal flake above CPU, Overall 207.5 by 181.17 by 38 mm	--	--
Enclosure	--	--	Metal material, 1.0 mm thickness minimum, overall 430 by 380 by 44mm.	--	--

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Clause	Requirement + Test	Result - Remark	Verdict

[1]) an asterisk indicates a mark which assures the agreed level of surveillance

1.6.2	TABLE: electrical data (in normal conditions)					Pass
fuse #	I rated (A)	U (V)	P (W)	I (mA)	I fuse (A)	condition/status
F1	--	90V/50Hz	134.5	1502	1502	Maximum normal load
F1	--	90V/60Hz	134.5	1502	1502	Maximum normal load
F1	6.0	100V/50Hz	132.4	1346	1346	Maximum normal load
F1	6.0	100V/60Hz	132.4	1348	1348	Maximum normal load
F1	3.0	240V/50Hz	127.3	622	622	Maximum normal load
F1	3.0	240V/60Hz	127.3	620	620	Maximum normal load
F1	--	254V/50Hz	127.3	596	596	Maximum normal load
F1	--	254V/60Hz	127.3	594	594	Maximum normal load
F1	--	264V/50Hz	127.3	596	596	Maximum normal load
F1	--	264V/60Hz	127.3	594	594	Maximum normal load
Note: *The Maximum normal load is defined as: The EUT crossed reading and writing data for HDD, FDD, Optical Device and LCD panel was operated with maximum brightness and contrast and worked continuously.						

2.5	TABLE: limited power source measurements						Pass
output tested	measured		single fault condition	measured value (maximum)			
	from	to		Uoc	Isc	VA	
USB 1	V +	V-	-	5.11	2.43	9.67	
USB 2	V +	V-	-	5.11	2.42	9.66	

2.6.3.4, 2.6.1	TABLE: earthing test		Pass
Accessible Conductive Part	Current (A)	Resistance (mΩ)	
AC inlet earth pin to metal enclosure	25	6	
Note:			

2.9.1, 2.9.2, 5.2.2	TABLE: humidity Test		Pass
Test Location	Test Voltage (V)	Breakdown	
Primary to Output Connector	4242 Vdc	No	

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Clause	Requirement + Test	Result - Remark	Verdict

Primary to Earthed metal enclosure	2506 Vdc	No
Note : Temperature: 20-30℃; Humidity: 91-95%, 48hrs.		

4.5	**TABLE: temperature rise measurements**					Pass
	test voltage (V)			See below		—
maximum temperature T of part/at:	**T (°C) #1**	**T (°C) #2**	**T (°C) #3**	**T (°C) #4**	**T (°C) #5**	**allowed Tmax (°C)**
--	Maximum Normal Load-90V/60Hz	Maximum Normal Load-90V/60Hz	Maximum Normal Load-264V/50Hz	Maximum Normal Load-264V/50Hz	--	--
For Heatsink 1 at 90Vac/ 60Hz	--	--	--	--	--	--
01. Ambient	24.7	40	--	--	--	--
Power Supply	--	--	--	--	--	--
02. AC Inlet	41.5	56.8	--	--	--	70
03. CF1 body	42.2	57.5	--	--	--	85
04. C2 body	47.5	62.8	--	--	--	85
05. L10 coil	49.7	65	--	--	--	105
06. PWB under BD1	47.6	62.9	--	--	--	105
07. C6 body	46.9	62.2	--	--	--	85
08. T2 core	41.9	57.2	--	--	--	110
09. T2 coil	43	58.3	--	--	--	110
10. T1 coil	38.2	53.5	--	--	--	110
11. T1 core	37.5	52.8	--	--	--	110
12. U3 body	43	58.3	--	--	--	100
13. L4 coil	44.7	60	--	--	--	105
14. C34 body	38.8	54.1	--	--	--	85
Main board	--	--	--	--	--	--
15. PWB under CPU	45.3	60.6	--	--	--	105
16. PWB under U12	42.8	58.1	--	--	--	105
17. PWB under U13	36.5	51.8	--	--	--	105
18. EC14 body	38.5	53.8	--	--	--	85
19. L3 coil	41.9	57.2	--	--	--	105
20. RTC body	35	50.3	--	--	--	100
21. HDD body	34	49.3	--	--	--	--
22. Enclosure outside neat Top	31.8	47.1	--	--	--	70
Test Duration	1.98 hrs	1.98 hrs	--	--	--	--
For Heatsink 2 at 90Vac/ 60Hz and 264Vdc/ 50Hz	--	--	--	--	--	--
01. Ambient	24.5	40	24.9	40	--	--
Power Supply	--	--	--	--	--	--
02. AC Inlet	41.3	56.8	40.2	55.3	--	70
03. CF1 body	42	57.5	41.4	56.5	--	85

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Clause	Requirement + Test	Result - Remark	Verdict

04. C2 body	47.5	63	41.7	56.8	--	85
05. L10 coil	49.6	65.1	45	60.1	--	105
06. PWB under BD1	47.7	63.2	40.6	55.7	--	105
07. C6 body	46.9	62.4	45.9	61	--	85
08. T2 core	42	57.5	41.2	56.3	--	110
09. T2 coil	43.1	58.6	42.3	57.4	--	110
10. T1 coil	38.5	54	37.9	53	--	110
11. T1 core	37.8	53.3	37.3	52.4	--	110
12. U3 body	43.1	58.6	42.4	57.5	--	100
13. L4 coil	44.5	60	44.3	59.4	--	105
14. C34 body	38.5	54	38.4	53.5	--	85
Main board	--	--	--	--	--	--
15. PWB under CPU	46	61.5	46.1	61.2	--	105
16. PWB under U12	44.4	59.9	44.7	59.8	--	105
17. PWB under U13	37	52.5	37.5	52.6	--	105
18. EC14 body	39.7	55.2	40.4	55.5	--	85
19. L3 coil	45.1	60.6	45.6	60.7	--	105
20. RTC body	35.1	50.6	35.9	51	--	100
21. HDD body	34.7	50.2	35.2	50.3	--	--
22. Enclosure outside neat Top	29.8	45.3	30.3	45.4	--	70
Test Duration	2.01 hrs	2.01hrs	1.23hrs	1.23hrs	--	--

Comments:

The temperatures were measured by thermal couple method under worst case normal mode defined in 1.2.2.1 and described in 1.6.2, at voltages described in 1.4.5.

With a specified max. ambient temperature of 40 degree C, the max. temperature is calculated as follows:

Winding components:
- class B Tmax = 120 degree C - 10 degree C = 110 degree C

Component with:
- Max. absolute temp. of 105 degree C (PWB), required Tmax. = 105 degree C
- Max. absolute temp. of 105 degree C (Chock), required Tmax. = 105 degree C
- Max. absolute temp. of 85 degree C (Capacitor), required Tmax. = 85 degree C
- Max. absolute temp. of 100 degree C (Photo-coupler), required Tmax. = 100 degree C
- Max. absolute temp. of 100 degree C (RTC), required Tmax. = 100 degree C

External or Internal metal surfaces of equipment which may be touched:
Required Tmax. = 70 degree C

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Clause	Requirement + Test	Result - Remark	Verdict

5.1	**TABLE: touch current test (Single-Phase Equipment, Figure 5A)**					Pass
Terminal A of Measuring Instrument Connected to	Switch "e" Position	Polarity P1/Primary Switch Condition				
		Normal/On	Normal/Off	Reverse/On	Reverse/Off	
Output Connector	Open	1.36	0.58	1.36	2.14	
Earthed metal enclosure	Open	1.36	0.58	1.36	2.14	
The limited did not exceed 0.35 mA r.m.s						

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
For unit:	--	--
Primary to Output Connector	4242Vdc	No
Primary to Earthed metal enclosure	2506 Vdc	No
N/A		

5.3	**TABLE: fault condition tests**						Pass
	ambient temperature (°C)				25.0°C, if not otherwise specified.		—
	model/type of power supply				FSP250-601U		—
	manufacturer of power supply				FSP Group Inc.		—
	rated markings of power supply				100-240 Vac, 50-60 Hz, 6-3A.		—
component No.	fault	test voltage (V)	test time	fuse No.	fuse current (A)	result	
Ventilation openings	Blocked	240 Vac	4.5 hrs	F1	0.62	NB, NC, NT,Unit shutdown. Ambient: 24.4 ℃; T1 coil: 62.5 ℃ , T1 core 60.2 ℃; T2 coil: 60.4 ℃ , T2 core 59.7 ℃.	
System Fan(Left)	Stalled	240 Vac	2.5 hrs	F1	0.63	NB, NC, NT. Ambient: 25.1 ℃; T1 coil: 37.9 ℃ , T1 core 37.2 ℃; T2 coil: 42.8 ℃ , T2 core 41.5 ℃.	
System Fan(Center)	Stalled	240 Vac	2.5 hrs	F1	0.63	NB, NC, NT. Ambient: 25 ℃; T1 coil: 38.4 ℃, T1 core 37.6 ℃; T2 coil: 43.2 ℃, T2 core 41.9 ℃.	

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Clause	Requirement + Test	Result - Remark	Verdict

System Fan(Right)	Stalled	240 Vac	2.2 hrs	F1	0.63	NB, NC, NT. Ambient: 25.2 ℃; T1 coil: 38.6 ℃, T1 core 37.9 ℃; T2 coil: 43.2 ℃, T2 core 42 ℃.
Power Fan	Stalled	240 Vac	3.3 hrs	F1	0.63	NB, NC, NT, Ambient: 25.6 ℃; T1 coil: 74.8 ℃, T1 core 73.9 ℃; T2 coil: 68.1 ℃, T2 core 64.7 ℃.
RTC Battery (CR2032)	Normal	240	--	--	--	Reverse Charging Current: 0 mA
RTC Battery (CR2032)	D5 Pin 1-2 short	240	--	--	--	Reverse Charging Current: 2.98 mA

EN 60950-1:2001			
Clause	Requirement + Test	Result - Remark	Verdict

Photos:

External Overall view 1 of xxxxFWS-810xx-xxx-xxx-xxx

EN 60950-1:2001			
Clause	Requirement + Test	Result - Remark	Verdict

Front view of xxxxFWS-810xx-xxx-xxx-xxx

Internal view of xxxxFWS-810xx-xxx-xxx-xxx

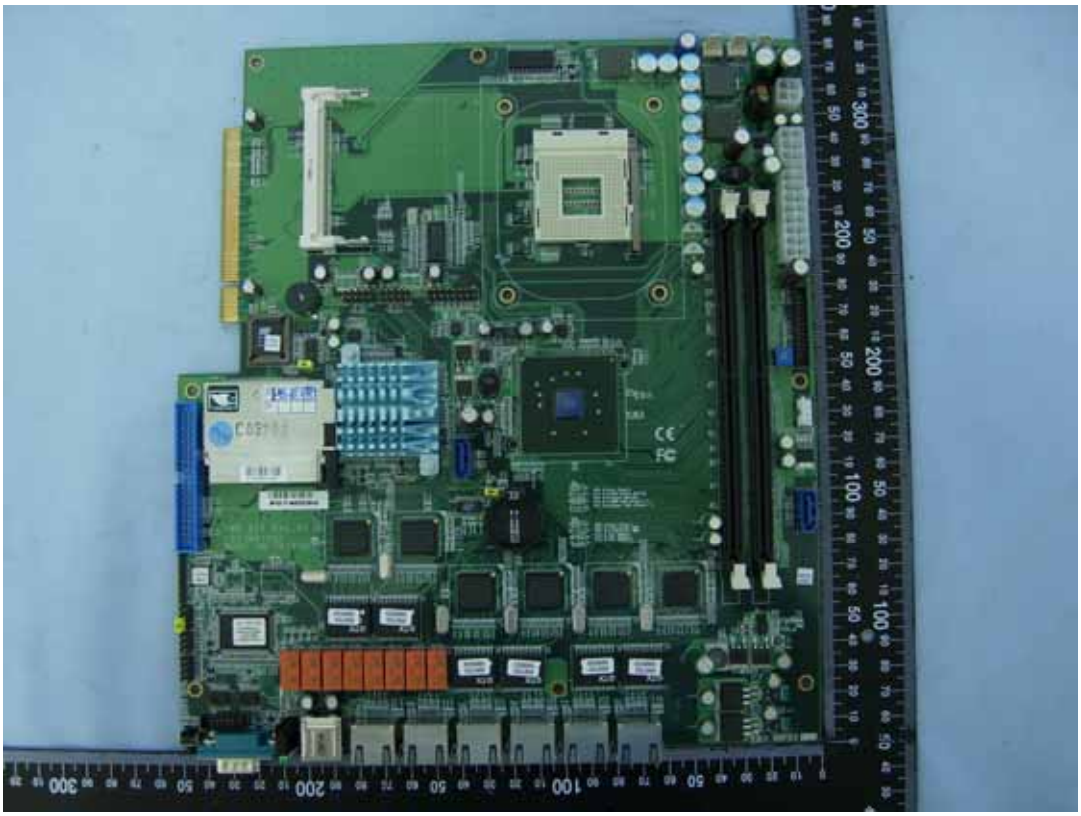
EN 60950-1:2001			
Clause	Requirement + Test	Result - Remark	Verdict

Internal view with Heatsink 1

Internal view with Heatsink 2

EN 60950-1:2001			
Clause	Requirement + Test	Result - Remark	Verdict

Mainboard of xxxxFWS-810xx-xxx-xxx-xxx



Mainboard foil