

Issue Date: 2003-06-30

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Report Reference #

E180881-A17-UL-1

Amendment 1 2005-04-28

COVER PAGE FOR TEST REPORT

Product Category:	Information Technology Equipment Including Electrical Business Equipment
Product Category CCN:	NWQQ, NWQQ7
Test Procedure:	Listing
Product:	Industrial Computer
Model/Type Reference:	IPC-623XXX-XXXXX, where X may be any alphanumeric character or blank.
Rating(s):	I/P : 115/230Vac, 50/60 Hz, 10/5A
Standards:	UL60950, Third Edition (2000) CAN/CSA-C22.2 No. 60950-00, Third Edition (2000)

Applicant Name and Address:	ADVANTECH CO LTD 4TH FL 108-3 MING-CHUAN RD SHING-TIEN CITY TAIPEI HSIEN TAIWAN
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This Report includes the following parts, in addition to this cover page:

1. Specific Technical Criteria
2. Clause Verdicts
3. Critical Components
4. Test Results
5. National Differences
6. Enclosures

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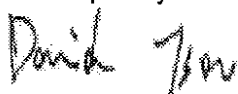
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This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of Underwriters Laboratories Inc. ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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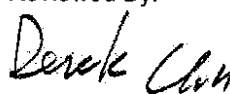
Any information and documentation provided to you involving UL Mark services are provided on behalf of Underwriters Laboratories Inc.

Test Report By:



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Reviewed By:



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Report Reference #

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SPECIFIC TECHNICAL CRITERIA

UL 60950 Safety of information technology equipment	
Report Reference No.....	E180881-A17-UL-1
Compiled by	David Tsou
Reviewed by	DereK Chen
Date of issue	2003-06-30
Standards	UL60950, Third Edition (2000) CAN/CSA-C22.2 No. 60950-00, Third Edition (2000)
Test procedure	Listing
Non-standard test method	N/A
Test item description	Industrial Computer
Trademark	ADVANTECH 
Model and/or type reference	IPC-623XXX-XXXXX, where X may be any alphanumeric character or blank.
Rating(s)	I/P : 115/230Vac, 50/60 Hz, 10/5A

Particulars: test item vs. test requirements

Equipment mobility: stationary
Operating condition: continuous
Mains supply tolerance (%): +10%, -10%
Test for IT power systems: No
IT testing, phase-phase voltage (V): N/A
Class of equipment: Class I (earthed).
Mass of equipment (kg): 23.0Kg, 21.7kg for project 05CA13739
Protection against ingress of water: IP 20

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 (acceptable only if a corresponding, less stringent national requirement is "Pass")

General remarks:

- "(see Enclosure #)" refers to additional information appended to the Test Report
- "(see appended table)" refers to a table appended to the Test Report
- Throughout the Test Report a point is used as the decimal separator

General Product Information:		
CA1.0	Report Summary	
CA1.1	N/A	
CB1.0	Product Description	
CB1.1	Power Supply, motherboard and optional provided HDD with CPU housed in metal enclosures.	
CC1.0	Model Differences	
CC1.1	N/A	
CD1.0	Additional Information	
CD1.1	N/A	
CE1.0	Technical Considerations	
CE1.2	The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tmra) of:	45°C
CE1.3	The power supply means are:	Pluggable A or B, Detachable power cord
CE1.4	The product is intended for use on the following systems:	TN
CE1.5	The equipment disconnect device is considered to be:	Appliance inlet
CE1.9	The following circuit locations (with circuit/schematic designation) were investigated as a limited power source:	PS/2 port.

IEC 60950			
Clause	Requirement + Test	Result - Remark	Verdict
2.5	Output voltage (V), output current (A), apparent power (VA).....:	5.04V, 2.1A, 10.5 VA (For alternate power supply, Zippy Technology Corp, HP2-6500P) Uoc = 5.08 V Isc = 1.95 A VA = 8.17 (For alternate power supply, Zippy Technology Corp, HP2-6400P) Uoc = 5.08 Isc = 1.95 VA = 8.17	
2.6.3.3	Resistance (Ohm) of earthing conductors and their terminations, test current (A)	Test current = 40 A. 0.053 ohm. (For alternate power supply, Zippy Technology Corp, HP2-6500P) Test current = 40 A, Voltage drop = 1.83 V (For alternate power supply, Zippy Technology Corp, HP2-6400P) Test current = 40 A Voltage drop = 1.87 V	Pass
2.9.1	Properties of insulating materials	Critical insulation investigation is investigated as an element of power supply certification. (Alternate power supply, Zippy Technology Corp, HG2-6400P and HG2-6500P) Electric strength test was conducted after the humidity treatment.	Pass
2.9.2	Humidity conditioning	(Alternate power supply, Zippy Technology Corp, HG2-6400P and HG2-6500P)	Pass

IEC 60950			
Clause	Requirement + Test	Result - Remark	Verdict
		40 degree C, 95% R.H. for 120 hrs.	
2.9.5	Categories of insulation	Functional (Alternate power supply, Zippy Technology Corp, HG2-6400P and HG2-6500P) Electric Strength test conducted after the humidity treatment. No flash over or breakdown of insulation. (See sub-clause 2.10, 4.5.1, and 5.2)	Pass
4.3.2	Handles and manual controls; force (N).....:		N/A
4.5.1	Temperature rises	(see appended table 4.5.1)	Pass
5.1.6	Measured current (mA):	Max. 3.2mA (For alternate power supply, Zippy Technology Corp, HP2-6500P) Max 0.6 mA (For alternate power supply, Zippy Technology Corp, HP2-6400P) Max 0.89 mA	

IEC 60950				
Clause	Requirement + Test	Result - Remark		Verdict
System Fan	Delta Electronics Inc.	EFB1212VH-F00	+12Vdc, 0.5A, 114.07 CFM	GPWV2
System Fan	Delta Electronics Inc.	EFB1212SH-F00	+12Vdc, 0.5A, 114.07 CFM	GPWV2
System Fan	Adda Corp.	AD0812HB-A70GL	+12Vdc, 0.25A, 40.1CFM	GPWV2
System Fan	Delta electronics inc	AFB0812SH-F00	+12Vdc, 0.34A, 46.62CFM	GPWV2
CPU Fan	Nidec Corp.	F06G-12B1S1	+12Vdc, 0.07A	GPWV2
CPU Fan	Dynaeon Industrial Co., Ltd.	DF1206BH	+12Vdc, 0.30A	GPWV2
Enclosure	Various	--	Plated steel, overall 660 by 426 by 177 mm, minimum 1 mm thick	--
PWB	Various	--	Rated V-1 or better, 105°C	3-03
Handles (Two provided)	Various	--	Steel, each overall 102 by 33 by 10 mm, spaced 465 mm apart.	--
Connectors and Receptacles (primary)	--	--	Min. 250 V	UL
Insulating Tubing/Sleeving	--	--	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; 105°C, 300 V	UL
Interconnecting Cable (primary)	--	--	Min. 105°C, 300 V, max 3.05 m long, jacketed, VW-1 or FT-1	UL
Label	--	--	40°C if max. surface temperature not specified.	UL
Power supply cord (Optional)	--	--	Type SVT or SPT-2, min 125 V, 10 A, with NEMA 5-15P or 250 V, 10 A, with NEMA 6-15P. Other end (connected to unit) (with cord-connected body, grounding type, suitable for cord size, rating not less than that of attachment plug)	UL
Wiring, internal primary	--	--	FEP, PTFE, PVC, TFE, AVL2	UL

IEC 60950			
Clause	Requirement + Test	Result - Remark	Verdict

Part of non-detachable Power supply cord	--	--	neoprene, polyimide or marked VW-1; min 300 V, 80°C. Type SVT or SPT-2, connected to unit. Other end min 125 V, 10 A, with NEMA 5-15R or 250 V, 10 A, with NEMA 6-15R, grounding type, suitable for cord size 18AWG.	ZJCZ and RTRT and AXUT	UL	
--	----	----	---	------------------------	----	--

IEC 60950			
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	
-	-	90v/50Hz	142	1580	-	Maximum normal load	
-	-	90v/60Hz	142	1580	-	Maximum normal load	
-	10	115v/50Hz	141	1410	-	Maximum normal load	
-	10	115v/60Hz	141	1410	-	Maximum normal load	
-	5	240v/50Hz	134	600	-	Maximum normal load	
-	5	240/60Hz	133	610	-	Maximum normal load	
-	-	253v/50Hz	132	590	-	Maximum normal load	
-	-	253v/60Hz	133	590	-	Maximum normal load	
--	--	--	--	--	--	For alternate power supply, Zippy Technology Corp, HP2-6500P	
--	--	103V/50 Hz	164.3	1612	1612	Maximum Normal Load	
--	--	103V/60 Hz	164.3	1619	1619	Maximum Normal Load	
--	10.0	115V/50 Hz	163.3	1441	1441	Maximum Normal Load	
--	10.0	115V/60 Hz	163.4	1444	1444	Maximum Normal Load	
--	--	122V/50 Hz	163.0	1371	1371	Maximum Normal Load	
--	--	122V/60 Hz	163.4	1364	1364	Maximum Normal Load	
--	--	207V/50 Hz	159.0	810	810	Maximum Normal Load	
--	--	207V /60 Hz	158.6	820	820	Maximum Normal Load	
--	5.0	230V/50 Hz	158.5	738	738	Maximum Normal Load	
--	5.0	230V/60 Hz	158.2	751	751	Maximum Normal Load	
--	--	253V/50 Hz	158.1	690	690	Maximum Normal Load	
--	--	253V/60 Hz	158.6	705	705	Maximum Normal Load	
--	--	--	--	--	--	Alternate power supply, Zippy Technology Corp, HG2-6400P	
--	--	103V/50 Hz	192.6	1890	1890	Maximum Normal Load	
--	--	103V/60 Hz	193.0	1885	1885	Maximum Normal Load	
--	10.0	115V/50 Hz	192.2	1686	1686	Maximum Normal Load	
--	10.0	115V/60 Hz	191.8	1687	1687	Maximum Normal Load	
--	--	122V/50 Hz	191.6	1587	1587	Maximum Normal Load	
--	--	122V/60 Hz	191.1	1587	1587	Maximum Normal Load	
--	--	207V/50 Hz	187.5	924	924	Maximum Normal Load	
--	--	207V/60 Hz	187.6	926	926	Maximum Normal Load	
--	5.0	230V/50 Hz	186.4	833	833	Maximum Normal Load	
--	5.0	230V/60 Hz	186.3	836	836	Maximum Normal Load	
--	--	253V/50 Hz	185.9	760	760	Maximum Normal Load	
--	--	253V/60Hz	185.9	767	767	Maximum Normal Load	
supplementary information:							

4.5	TABLE: temperature rise measurements						Pass
	test voltage (V)..... :	See below.					

IEC 60950			
Clause	Requirement + Test	Result - Remark	Verdict

	t1 (°C)	--	--
	t2 (°C)	--	--
temperature rise dT of part/at:		dT (K)	required dT (K)
--		103.5V/253V	--
Ambient		24.9°/25.4°	--
PWB near Q8		18.6/16.6	60
RTC Battery body		13.1/11.8	--
U19 body		15.3/13.9	--
CPU body		14.3/13.0	--
L16 coil		21.2/19.8	60
L6 coil		8.9/7.8	60
C51 body		12.6/11.2	40
PWB Q25 body		11.9/10.5	60
HDD body		4.6/3.6	--
CDROM body		6.8/5.2	--
FDD body		8.1/6.3	--
Power 1		--	--
L1 coil		9.8/7.7	60
L1 coil for 540060-A board		6.7/3.9	60
PWB near the BD1 on 540060-A board		10.7/6.2	60
T1 coil		8.1/6.4	45
T1 core		13.5/11.7	45
T2 coil		12.2/10.6	45
T2 core		11.3/9.7	45
C1 body		5.6/3.8	40
Power 2		--	--
L1 coil		11.2/9.2	60
L1 coil for 540060-A board		12.5/7.2	60
PWB near the BD1 on 540060-A board		12.6/7.7	60
T1 coil		11.8/10.1	45
T1 core		13.0/11.2	45
T2 coil		14.4/12.7	45
T2 core		13.3/11.5	45
C1 body		7.0/5.1	40
Enclosure inside near the power		3.7/2.3	--
Enclosure outside near the power		3.4/2.0	25
--		230v ventilation openings blocked/230v stall system fan/230v stall power fan/230v Removed one power supply kid	--
Ambient		26°/25.5°/26.3°/26.2°	--
PWB near Q8		30.9/20.4/15.9/14.8	--

IEC 60950			
Clause	Requirement + Test	Result - Remark	Verdict
RTC Battery body		26.1/10.6/10.1/9.7	--
U19 body		28.4/19.5/13.0/12.2	--
CPU body		28.9/27.3/11.7/11.3	--
L16 coil		34.7/24.8/19.3/18.4	--
L6 coil		25.4/7.4/6.7/6.2	--
C51 body		25.9/13.3/10.9.76/	--
PWB Q25 body		25.4/11.2/10.3/9.1	--
HDD body		18.5/2.5/2.3/1.9	--
CDROM body		17.6/3.3/2.8/2.4	--
FDD body		18.2/5.0/3.3/2.6	--
Power 1		--	--
L1 coil		21.1/6.4/4.1/8.0	--
L1 coil for 540060-A board		16.8/2.7/13.0/3.7	--
PWB near the BD1 on 540060-A board		18.7/4.7/7.4/5.4	--
T1 coil		19.7/5.1/17.6/6.2	105
T1 core		25.0/10.4/21.5/11.7/	105
T2 coil		24.3/9.5/17.9/12.4	105
T2 core		23.3/8.6/19.1/9.0	105
C1 body		16.1/2.5/12.6/3.0	--
Power 2		--	--
L1 coil		22.9/8.0/2.5/2.9	--
L1 coil for 540060-A board		21.6/6.4/12.5/2.3	--
PWB near the BD1 on 540060-A board		21.4/6.4/5.5/2.4	--
T1 coil		23.7/8.8/16.8/2.8	105
T1 core		24.6/10.0/19.9/3.0	105
T2 coil		26.1/11.3/15.9/3.1	105
T2 core		25.1/10.3/17.6/3.2	105
C1 body		18.8/3.8/11.3/2.6	--
Enclosure inside near the power		11.6/0.9/7.6/1.8	--
Enclosure outside near the power		8.1/0.9/1.5/0.6	--
--		--	For alternate power supply, Zippy Technology Corp, HP2-6500P
Maximum Normal Load at 103 V, 60 Hz, Duration 1.33 hrs.		--	--
Ambient		25.1°C	--
Power Supply AC inlet body		1.5	--
Power Supply C42 body		1.8	35
Power Supply T1 coil		8.1	40
Power Supply T1 core		8.3	40
Power Supply choke body		10.2	55
Power Supply PWB under D8		9.6	55
Mainboard RTC battery		9.1	--
Mainboard PWB under CPU		16.3	55
Mainboard L8 coil		4.0	55
Mainboard CM4 body		18.2	35
Mainboard U6 body		12.7	--

IEC 60950			
Clause	Requirement + Test	Result - Remark	Verdict
	HDD body near motor	1.0	--
	CD-ROM body near motor	2.7	--
	Enclosure outside near Top	0.5	20
	Maximum Normal Load at 253 V, 60 Hz, Duration 1.5 hrs.	--	--
	Ambient	23.7°C	--
	Power Supply AC inlet body	2.4	--
	Power Supply C42 body	2.7	35
	Power Supply T1 coil	9.1	40
	Power Supply T1 core	9.4	40
	Power Supply choke body	12.3	55
	Power Supply PWB under D8	11.0	55
	Mainboard RTC battery	10.2	--
	Mainboard PWB under CPU	17.7	55
	Mainboard L8 coil	5.3	55
	Mainboard CM4 body	19.4	35
	Mainboard U6 body	13.4	--
	HDD body near motor	2.5	--
	CD-ROM body near motor	4.0	--
	Enclosure outside near Top	1.3	20
	--	--	Alternate power supply, Zippy Technology Corp, HG2-6400P
	Maximum Normal Load at 103 V, 60 Hz, Duration 1.15 hrs.	--	--
	Ambient	24.6°C	--
	Power Supply AC inlet body	4.8	--
	Power Supply C42 body	2.7	35
	Power Supply T1 coil	15.8	40
	Power Supply T1 core	10.2	40
	Power Supply choke body	5.0	55
	Power Supply PWB under D8	18.3	55
	Mainboard RTC battery	14.0	--
	Mainboard PWB under CPU	18.2	55
	Mainboard L8 coil	6.5	55
	Mainboard CM4 body	20.3	35
	Mainboard U6 body	15.7	--
	HDD body near motor	2.7	--
	CD-ROM body near motor	4.1	--
	Enclosure outside near Top	2.0	20
	Maximum Normal Load at 253V, 60Hz, Duration 1.0 hrs.	--	--
	Ambient	24.9°C	--
	Power Supply AC inlet body	3.1	--
	Power Supply C42 body	1.9	35
	Power Supply T1 coil	14.7	40
	Power Supply T1 core	9.0	40
	Power Supply choke body	3.5	55
	Power Supply PWB under D8	17.2	55

IEC 60950						
Clause	Requirement + Test			Result - Remark		Verdict
Mainboard RTC battery			13.6			--
Mainboard PWB under CPU			17.8			55
Mainboard L8 coil			6.0			55
Mainboard CM4 body			19.7			35
Mainboard U6 body			15.4			--
HDD body near motor			2.4			--
CD-ROM body near motor			3.7			--
Enclosure outside near Top			1.5			20
temperature rise dT of winding:		R ₁ (Ω)	R ₂ (Ω)	dT (K)	required dT (K)	insulation class
supplementary information:						

5.2	TABLE: electric strength tests and impulse tests		Pass
test voltage applied between:		test voltage (V)	breakdown Yes / No
Power Supply: Zippy, HP2-6500P		--	--
Primary to SELV		4242	No
Primary to Earth		2913	No
Power Supply: Zippy, HG2-6400P		--	--
Primary to SELV		4242	No
Primary to Earth		3100	No
supplementary information:			

5.3	TABLE: fault condition tests						Pass
	ambient temperature (°C) :					25	—
	model/type of power supply :					--	—
	manufacturer of power supply :					--	—
	rated markings of power supply :					--	—
component No.	fault	test voltage (V)	test time	fuse No.	fuse current (A)	result	
Ventilation openings	Blocked	230 / 60Hz	3.0 hrs	--	--	NB, NC, NT, (see 4.5.1 Heating Test for details)	
System fan	Stalled	230 / 60Hz	2.5 hrs	--	--	NB, NC, NT, (see 4.5.1 Heating Test for details)	
One power supply kid	Removed	230 / 60Hz	3.0 hrs	--	--	NB, NC, NT, (see 4.5.1 Heating Test for details)	
Power fan	Stalled	230 / 60Hz	2.5 hrs	--	--	NB, NC, NT, (see 4.5.1 Heating Test for details)	
PS/2 pin 1,	Overload	240 / 60Hz	--	--	--	Circuit measures 0 volts.	

IEC 60950						
Clause	Requirement + Test			Result - Remark		Verdict
5, 6						
PS/2 pin 2	Overload	240 / 60Hz	1 hr	--	--	NB, NC, NT, open circuit 5.04V, Max. available current 2100 mA
PS/2 pin 3, 4	Overload	240 / 60Hz	--	--	--	Circuit measures less than 12.5mA
VGA pin 1, 6-8, 10, 11	Overload	240 / 60Hz	--	--	--	Circuit measures 0 volts.
VGA pin 12-15	Overload	240 / 60Hz	--	--	--	Circuit measures less than 12.5mA
VGA pin 9	Overload	240 / 60Hz	1 hr	--	--	NB, NC, NT, open circuit 5.04V, Max. available current 2000 mA
RJ-45 pin 1-8	Overload	240 / 60Hz	--	--	--	Circuit measures 0 volts.
COM1 pin 1-9	Overload	240 / 60Hz	--	--	--	Circuit measures 0 volts.
Power Supply: Zippy, HP2-6500P	--	--	--	--	--	--
--	--	--	--	--	--	5.3.1 Abnormal operation
Ventilation openings	Blocked	230 / 60Hz	2.4 hrs	-	0.750	NB, NC, NT, CT, Ambient: 23.8°C; PWB under D8: 73.4°C
Power fan	Stalled	230 / 60Hz	4.0 hrs	-	0.810	NB, NC, NT, CT, Ambient: 25.2°C; PWB under D8: 47.1°C
All system fan	Stalled	230 / 60Hz	4.5 hrs	-	0.671	NB, NC, NT, CT, Ambient: 25.3°C; PWB under CPU: 79.8°C
CPU fan	Stalled	230 / 60Hz	2.16 hrs	-	0.802	NB, NC, NT, CT, Ambient: 25.6°C; PWB under CPU: 47.5°C
--	--	--	--	--	--	5.3.6 Overload Of Operator Accessible Connector Test
RS232 All pin	Overload	230 / 60 Hz	--	--	--	C Circuit measures 0 volts.
RJ 45 All Pin	Overload	230 / 60 Hz	--	--	--	C Circuit measures 0 volts.
VGA pin 1, 6-8, 10-15	Overload	230 / 60 Hz	--	--	--	C Circuit measures 0 volts.
VGA pin 2	Overload	230 / 60 Hz	1 sec	--	--	B, Measure 4.98 V, 10 mA. Circuit measures less than 12.5mA
VGA pin 3	Overload	230 / 60 Hz	1 sec	--	--	B, Measure 4.72 V, 10 mA. Circuit measures less than 12.5mA

IEC 60950						
Clause	Requirement + Test			Result - Remark		Verdict
VGA pin 4	Overload	230 / 60 Hz	1 sec	--	--	B, Measure 5.03 V, 10 mA. Circuit measures less than 12.5mA
VGA pin 5	Overload	230 / 60 Hz	1 sec	--	--	B, Measure 4.98 V, 10 mA. Circuit measures less than 12.5mA
VGA pin 9	Overload	230 / 60 Hz	1 hr	--	--	NB, NC, NT, Measure 5.08 V, 1950 mA.
PS/2 Pin 1, 2, 6	Overload	230 / 60 Hz	--	--	--	C Circuit measures 0 volts.
PS/2 Pin 3, 4	Overload	230 / 60 Hz	1 sec	--	--	B, Measure 5.03 V, 10 mA. Circuit measures less than 12.5mA.
PS/2 Pin 5	Overload	230 / 60 Hz	1 hr	--	--	NB, NC, NT, Measure 5.07 V, 1950 mA.
Power Supply: Zippy, HP2-6400P	--	--	--	--	--	--
--	--	--	--	--	--	5.3.1 Abnormal operation
Ventilation openings	Blocked	230 / 60Hz	3.5 hrs	-	0.832	NB, NC, NT, CT, Ambient: 24.1°C; PWB under CPU: 68.5°C
Power fan	Stalled	230 / 60Hz	3.0 hrs	-	0.794	NB, NC, NT, CT, Ambient: 23.8°C; PWB under D8: 50.9°C
All system fan	Stalled	230 / 60Hz	4.8 hrs	-	0.668	NB, NC, NT, CT, Ambient: 22.1°C; PWB under CPU: 79.4°C
CPU fan	Stalled	230 / 60Hz	2.0 hrs	-	0.786	NB, NC, NT, CT, Ambient: 24.1°C; PWB under CPU: 47.4°C
--	--	--	--	--	--	5.3.6 Overload Of Operator Accessible Connector Test
RS232 All pin	Overload	230 / 60 Hz	--	--	--	C Circuit measures 0 volts.
RJ 45 All Pin	Overload	230 / 60 Hz	--	--	--	C Circuit measures 0 volts.
VGA pin 1, 6-8, 10-15	Overload	230 / 60 Hz	--	--	--	C Circuit measures 0 volts.
VGA pin 2	Overload	230 / 60 Hz	1 sec	--	--	B, Measure 4.98 V, 10 mA. Circuit measures less than 12.5mA
VGA pin 3	Overload	230 / 60 Hz	1 sec	--	--	B, Measure 4.72 V, 10 mA. Circuit measures less than 12.5mA
VGA pin 4	Overload	230 / 60 Hz	1 sec	--	--	B, Measure 5.03 V, 10 mA. Circuit measures less than

IEC 60950						
Clause	Requirement + Test			Result - Remark		Verdict
						12.5mA
VGA pin 5	Overload	230 / 60 Hz	1 sec	--	--	B, Measure 4.98 V, 10 mA. Circuit measures less than 12.5mA
VGA pin 9	Overload	230 / 60 Hz	1 hr	--	--	NB, NC, NT, Measure 5.08 V, 1950 mA.
PS/2 Pin 1, 2, 6	Overload	230 / 60 Hz	--	--	--	C Circuit measures 0 volts.
PS/2 Pin 3, 4	Overload	230 / 60 Hz	1 sec	--	--	B, Measure 5.03 V, 10 mA. Circuit measures less than 12.5mA.
PS/2 Pin 5	Overload	230 / 60 Hz	1 hr	--	--	NB, NC, NT, Measure 5.07 V, 1950 mA.
supplementary information:						

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SubClause	Difference + Test	Result - Remark	Verdict

USA / Canada - Differences to IEC60950, Third Edition (1999)			
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