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SUPERIOR PRODUCT CONSULTING, INC.

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Appendix to Report reference No. 99-0287

Page 1 of 1

(Name and address of the manufacturer)

Advantech Co., Ltd.

4F, No. 108-3, Ming-Chuan Road, Shing-Tien City
Taipei, Taiwan

Description

1. Addition models IPC-610Byy-40yy-zzzzzz. Where y can be 0-9, A-Z or blank; z can be 0-9, A-Z or blank .
The new models are identical except model designations and those same as original models IPC-610Byy-30yy-zzzzzz.
2. Additional power supply for models IPC-610BP-40ZF series and IPC-610BP-30ZF series.

For details, refer to the test report reference no. SPCLVD0105001.


Allen Huang
Group Leader

Date of issue: May 3, 2001

TEST REPORT
IEC 60 950
Safety of information technology equipment

Report Reference No.: SPCLVD0105001

Compiled by (+ signature): Allen Huang

Group Leader

Approved by (+ signature): Frank Hsu

President

Date of issue: May 3, 2001

This report is based on a blank test report that was prepared by KEMA using information obtained from the TRF originator (see below).

Testing laboratory name: Superior Product Consulting, Inc.

Address.....: 3F, No. 10, Alley 6, Lane 235, Pao Chiao Rd., Hsien Tien, Taipei, Taiwan, R.O.C.

Testing location: 3F, No. 10, Alley 6, Lane 235, Pao Chiao Rd., Hsien Tien, Taipei, Taiwan, R.O.C.

Client name.....: Advantech Co., Ltd

Address.....: 4th Fl, No. 108-3, Ming-Chuan Rd, Shing-Tien Ciyt, Taipei Hsien, Taiwan

Standard.....: IEC 60 950:1991 + A1:1992 + A2:1993 + A3:1995 + A4:1996
EN 60 950:1992 + A1:1993 + A2:1993 + A3:1995 +A4:1997 + A11:1997

Test procedure: Informative Test Report

Procedure deviation: N/A

Non-standard test method.....: N/A

Test Report Form/blank test report

Test Report Form No.: I950__D/97-06

TRF originator.: FIMKO

Master TRF.....: reference No. I950 D, dated 97-02

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Test item description: Computer

Trademark: ADVANTECH

Model and/or type reference: IPC-610Byy-40yy-zzzzzz. Where y can be 0-9, A-Z or blank; z can be 0-9, A-Z or blank .

And refer to report no. 99-0287

Manufacturer: Advantech Co., Ltd

Rating(s).....: 100-120/200-240 Vac, 47-63 Hz, 10/5 A

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

General remarks:

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

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
This report is not valid as a CB Test Report unless appended to a CB Test Certificate issued by a NCB in accordance with IEC 60060-2.

General product information:

1. Model difference: Models IPC-610Byy-40yy-zzzzzz. Where y can be 0-9, A-Z or blank; z can be 0-9, A-Z or blank . The models IPC-610Byy-40yy-zzzzzz are identical except for model designations and those same as original models IPC-610Byy-30yy-zzzzzz.
2. Additional power supply for models IPC-610BP-40ZF series and IPC-610BP-30ZF series.

Documents:

ENCLOSURE No. 1: Test Record & Test Instruments List

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict

1	GENERAL		Pass
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1.7	Marking and instructions		Pass
1.7.1	Rated voltage (V)	100-120/200-240 Vac	Pass
	Symbol of nature of supply for d.c.		N/A
	Rated frequency (Hz)	47 - 63 Hz.	Pass
	Rated current (A)	10/5 A	Pass
	Manufacturer	Advantech Co., Ltd	Pass
	Trademark	ADVANTECH	Pass
	Type/model	IPC-610Byy-40yy-zzzzzz. Where y can be 0-9, A-Z or blank; z can be 0-9, A-Z or blank	Pass
	Symbol of Class II	Class I equipment.	N/A
	Certification marks	UL, CUL	N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict

1.5.1	TABLE: list of alternative components					Pass
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾	
Power Supply (for models IPC- 610BP-40ZF series and IPC- 610BP-30ZF series.	Delta	DPS-300GB-1	I/p: 100- 127/200- 240Vac, 47- 63Hz, 9/4.5A O/p: +3.3V/28A, +5V/30A, +12V/15A, - 12V/0.8A, - 5V/0.3A, +5VSB/2A. total 300W. Class I	UL 1950 EN 60950 IEC 60950	UL, TÜV	
(alternative)	Power Research Technology Co., Ltd.	PRM401PFC	I/p: 100-240Vac, 50/60Hz, 8/5A O/p: +3.3V/30A, +5V/50A, +12V/27A, - 12V/3A, -5V/1A, +5VSB/1A. +5V and +3.3V total 250W, total 400W. Class I	UL 1950 EN 60950 IEC 60950	UL, TÜV	

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

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict

5.1	TABLE: temperature rise measurements				Pass	
	test voltage (V)	:			—	
	t1 (°C)	:			—	
	t2 (°C)	:			—	
temperature rise dT of part/at:			dT (K)	required dT (K)		
see enclosed test record						
temperature rise dT of winding:		R ₁ (Ω)	R ₂ (Ω)	dT (K)	required dT (K)	insulation class
see enclosed test record						

ENCLOSURE No. 1

Test Record & Test Instruments List

(Total 10 Pages including this Cover Page)

**The test record including following item:
Heating Test**

The test methods and results of the tests have been reviewed and found to be in accordance with the requirements in the Standards.

Test results are valid only for the tested equipment.

The unit was configured as follows:

"Maximum normal load" was defined: HDD, FDD were seeking and with dummy load on power supply- for Delta, model DPS-300GB-1: +5V/25A, +12V9A; for Power Research Technology, model PRM401PFC: +5V/30A, +12V10A

Maximum operating ambient 50° C.

Unless otherwise indicated, all tests were conducted on Model IPC-610BP-30ZF.

Tests performed on Model IPC-610BP-30ZF were considered to be representative of Models IPC-610BP-40ZF series and IPC-610BP-30ZF series.