Nemko

Order No. 200133111

Appendix to Test Report, Nemko Order No. 200107212

This Appendix consists of this cover page and additional test report page(s) to the original test report.

Product	Personal Computer
Name and address of the applicant	Wistron Corp. 21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.
Name and address of the manufacturer	Acer Inc. 21F, 88, Sec. 1, Hsin Tai Wwu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.
Name and address of the factory	Ref. to page 2
Rating and principal characteristics	4/2A, 100-127/200-240V, 60/50Hz (VT3200) 5/3A, 100-127/200-240V, 60/50Hz (VT3300, AS3300, AS3300-C) Cl.I
Trade mark	Acer
Model/type	VT3200, VT3300, AS3300, AS3300-C
Serial no	Test sample without serial no.
Modification on the Appliances:	**Addition of new models: VT3300, AS3300, AS3300-C, Alt. Components, change of address name**
Modification to Clause:	**Additional Information, 1.2.02, 1.5.1, 1.6.00, 1.7.00, 5.1.00, 5.3.00, 5.4.00**
Name and address of the testing laboratory	Nemko P.O. BOX 73 BLINDERN, N - 0314 OSLO, NORWAY Telephone (+47) 22 96 03 30 Fax (+47) 22 96 05 50
Tested by	signature: [signature] date: 2001-08-15 Hans-Eirik Lie name in block letters
Verified by	signature: [signature] date: 2001-08-15 Kjetil Sparbo name in block letters

This report-page is based on procedure described in IECEE/CCB(Sec)446 October 1991, Clause 1D110. These pages shall only be copied in full.

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Nemko

Order No. 200133111

1.2.02	**OPERATING CONDITIONS**		—
1.2.02.01	Normal load as described in Annex L or as close as possible to the most severe normal use	Normal load condition: Data is transferred between each HDD & FDD, all I/P & O/P ports communicated with peripheral equipment and monitor display with full white display with max. brightness and contrast, picture provided from the PC	—

1.5.01	**LIST OF CRITICAL COMPONENTS**					P
Part No	Component/ Object	Manufacturer	Type / Model	Ratings / Technical Data	Complies with the following standard	Marks of conformity granted **
	Power Supply Unit	FSP Group Inc.	FSP160-60SAV	100-127V/200-240V, 60/50Hz, 5/3A,	IEC 60950	UL, TÜV Nemko(CB)[1)]
			FSP160-60SAV(PF)	100-127V/200-240V, 60/50Hz, 5/3A,	IEC 60950	UL, TÜV Nemko(CB)[1)]
	3.5" H.D.D. (optional)	IBM Japan Ltd.	IC35L0nnAVER07-y	5 / 12 V dc 0.3 / 0.5 A max.	EN 60950	UL, TÜV
	DVD-ROM (optional)	Pioneer Corp.	DVD-116XXX	5 / 12 V dc 0.8 / 1.3 A Laser Class 1	IEC 60950 IEC 60825-1	TÜV(CB), UL, Fimko
	Comments:					
	1) Used on Nemko ref. Order. No. 200126247					

Nemko

Order No. 200133111

1.7.00	**MARKING AND INSTRUCTIONS**		
1.7.01	Location of marking	The required marking is located on the outside surface of the equipment on a self-adhesive label.	P
	Rated voltage / voltage range / multiple rated voltages	100 - 127 / 200 - 240 V	P
	For d.c. operated equipment; symbol for nature of supply	The equipment is for a.c. supply	N
	Rated frequency / frequency range (Hz)	60/50 Hz	P
	Rated current / multiple current ratings (A)	5/3 A	P
	Manufacturers name, trade mark or identification mark	acer	P
	Type / model	VT3300, AS3300, AS3300-C	P
	Symbol of Class II	The equipment is Class I	N
	Additional marking do not give rise to misunderstanding	The additional marking does not give rise to misunderstandings	P
	Certification marks	The certification mark for TV-GS, UL/CUL and Norway(N-mark) are applied.	P

Nemko

Order No. 200133111

5.0.00	**THERMAL AND ELECTRICAL REQUIREMENTS**		
5.1.00	**HEATING**		**P**
Test voltage	90/254 V		

Other measured parts	Δt measured K U = 90 V	Δt measured K U = 254 V	Δt allowed K/
CPU Heat-Sink	14	14	
U12 Heat-Sink / MB	15	16	
U21 / MB	12	13	
HDD Housing	17	17	
DVD-ROM Housing	13	14	
FDD Housing	5	5	
FL2 coil / PSU	40	21	85
C1 / PSU	24	26	
T1 coil / PSU	42	43	75
T2 coil / PSU	24	24	75
T3 coil / PSU	18	18	75
L1 coil / PSU	35	40	
L2 coil / PSU	22	24	
HS1 / PSU	38	51	
HS2 / PSU	46	46	
DC Fan Enclosure / PSU	27	27	
Enclosure / PSU	14	14	
Enclosure / system	10	11	
Ambient	25°C	25°C	

Comments	Tested with FSP power supply, model FSP160-60SAV	
	The test was performed at 90 V and 254 V, using normal load as described in Clause 1.2.2.1.	
	Max ambient temperature: 35°C. Temperatures are adjusted accordingly.	

Nemko

Order No. 200133111

5.0.00	**THERMAL AND ELECTRICAL REQUIREMENTS**		
5.4.00	**FAULT**		**P**

Test voltage	254 V	**Ventilation Blocked <u>except rear side</u>/<u>rear side</u>**

Other measured parts	Δt measured K U = V	Δt measured K U = 254 V	t allowed C/
CPU Heat-Sink		34	
U12 Heat-Sink / MB		36	
U21 / MB		27	
HDD Housing		36	
DVD-ROM Housing		28	
FDD Housing		16	
FL2 coil / PSU		53	
C1 / PSU		50	
T1 coil / PSU		67	165
T2 coil / PSU		52	165
T3 coil / PSU		46	165
L1 coil / PSU		65	
L2 coil / PSU		46	
HS1 / PSU		71	
HS2 / PSU		67	
DC Fan Enclosure / PSU		55	
Enclosure / PSU		37	
Enclosure / system		34	
Ambient		25°C	

Comments	Tested with FSP power supply, model FSP160-60SAV	
	The test was performed at 254 V, using normal load as described in Clause 1.2.2.1.	

Nemko

Order No. 200133111

5.0.00	**THERMAL AND ELECTRICAL REQUIREMENTS**		
5.1.00	**HEATING**		**P**

Test voltage	90/254 V	

Other measured parts	Δt measured K U = 90 V	Δt measured K U = 254 V	Δt allowed K/
CPU Heat-Sink	16	17	
U12 Heat-Sink / MB	20	23	
U21 / MB	15	17	
HDD Housing	20	23	
DVD-ROM Housing	15	16	
FDD Housing	7	8	
PFC coil / PSU	17	30	85
FL2 coil / PSU	49	20	85
C1 / PSU	23	25	
T1 coil / PSU	49	50	75
T2 coil / PSU	23	25	75
T3 coil / PSU	15	17	75
L1 coil / PSU	31	36	
L2 coil / PSU	28	30	
HS1 / PSU	38	47	
HS2 / PSU	47	48	
DC Fan Enclosure / PSU	23	25	
Enclosure / PSU	15	17	
Enclosure / system	10	11	
Ambient	25°C	25°C	

Comments	Tested with FSP power supply, model FSP160-60SAV(PF)	
	The test was performed at 90 V and 254 V, using normal load as described in Clause 1.2.2.1.	
	Max ambient temperature: 35°C. Temperatures are adjusted accordingly.	

Nemko

Order No. 200133111

5.0.00	**THERMAL AND ELECTRICAL REQUIREMENTS**		
5.4.00	**FAULT**		**P**

Test voltage	254 V	**Ventilation Blocked <u>except rear side/rear side</u>**

Other measured parts	Δt measured K U = V	Δt measured K U = 254 V	t allowed C/
CPU Heat-Sink		39	
U12 Heat-Sink / MB		44	
U21 / MB		34	
HDD Housing		44	
DVD-ROM Housing		39	
FDD Housing		24	
PFC coil / PSU		54	
FL2 coil / PSU		50	
C1 / PSU		51	
T1 coil / PSU		77	165
T2 coil / PSU		59	165
T3 coil / PSU		46	165
L1 coil / PSU		68	
L2 coil / PSU		69	
HS1 / PSU		71	
HS2 / PSU		74	
DC Fan Enclosure / PSU		51	
Enclosure / PSU		39	
Enclosure / system		32	
Ambient		25°C	

Comments	Tested with FSP power supply, model FSP160-60SAV(PF)	
	The test was performed at 254 V, using normal load as described in Clause 1.2.2.1.	

Nemko

Order No. 200133111

5.2.00	**EARTH LEAKAGE CURRENT**		
5.2.01	General		**P**
5.2.02	- 5.2.04 Leakage current		**P**
	Test voltage (V)	254V	
	Measured current	PSU: FSP160-60SAV Line (Phase 1): 0.91mA Neutral (Phase 2): 0.92mA PSU: FSP160-60SAV(PF) Line (Phase 1): 0.64mA Neutral (Phase 2): 0.64mA	**P**
	Max. allowed current (mA)	3.5 mA	**P**
5.2.05	Equipment with earth leakage current exceeding 3,5 mA	The leakage current does not exceed 3.5 mA.	**N**

5.3.00	**ELECTRIC STRENGTH**		
5.3.01	- 5.3.02 General. Test procedure		**P**

Location	Test voltage	Result
Primary - Secondary	4242 V dc / 60s	Pass
Primary - Protective earth	2300 V dc / 60s	Pass

Comments		

5.4.00	**ABNORMAL OPERATING AND FAULT CONDITIONS**		
5.4.07	Tests under any expected condition in normal use and foreseeable misuse	Equipment is tested with ventilation openings covered, no excessive temperatures	**P**
Comments			

Nemko

Order No. 200133111

	ELECTRICAL DATA (in normal conditions)					**P**
PSU: FSP160-60SAV						
Fuse No	I rated (A)	U in (V)	P in (W)	I in (mA)	I thr. fuse/ (mA)	Conditions/status
	-	90	166	2850	2850	Normal load as described in Cl. 1.2.2.1
	5	100	166	2620	2620	Normal load as described in Cl. 1.2.2.1
	5	127	165	2180	2180	Normal load as described in Cl. 1.2.2.1
	-	134	167	2090	2090	Normal load as described in Cl. 1.2.2.1
	-	140	168	2030	2030	Normal load as described in Cl. 1.2.2.1
	-	180	168	1680	1680	Normal load as described in Cl. 1.2.2.1
	3	200	166	1550	1550	Normal load as described in Cl. 1.2.2.1
	3	240	166	1350	1350	Normal load as described in Cl. 1.2.2.1
	-	254	167	1240	1240	Normal load as described in Cl. 1.2.2.1
	-	264	168	1220	1220	Normal load as described in Cl. 1.2.2.1
PSU: FSP160-60SAV(PF)						
Fuse No	I rated (A)	U in (V)	P in (W)	I in (mA)	I thr. fuse/ (mA)	Conditions/status
	-	90	168	2870	2870	Normal load as described in Cl. 1.2.2.1
	5	100	168	2620	2620	Normal load as described in Cl. 1.2.2.1
	5	127	168	2150	2150	Normal load as described in Cl. 1.2.2.1
	-	134	169	2070	2070	Normal load as described in Cl. 1.2.2.1
	-	140	168	2000	2000	Normal load as described in Cl. 1.2.2.1
	-	180	168	1190	1190	Normal load as described in Cl. 1.2.2.1
	3	200	167	1060	1060	Normal load as described in Cl. 1.2.2.1
	3	240	168	910	910	Normal load as described in Cl. 1.2.2.1
	-	254	168	850	850	Normal load as described in Cl. 1.2.2.1
	-	264	167	830	830	Normal load as described in Cl. 1.2.2.1