Report NO:11P0A0010_I

FSP084-DMAA1
of
ACP-5185
Power Electronics Test Report

Summary	☑ **Pass** ☐ **Fail** ☐ **Pass with Deviation** **Comment:** _____

Test Result Summary				
	Critical	Major	Minor	Enhancement
Defect Found	0	0	0	0
Defect Unsolved	0	0	0	0

Issue date	Approval	Test Engineer
06/16/2011	Jansin Lee	Matthew Chi

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Table of Contents

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1. Project

FSP084-DMAA1 AC-DC Adapter for ACP-5185

2. Power Manufacturer

FSP

3. Team Member

PM：Alex Hsueh；PPC H/W：Eric Lin

4. Test Equipment

4.1. Panel：AUO 12.1” XGA 500 nits LED backlight

4.2. USB Mouse：Logitech，Model：M-BT85

4.3. USB Keyboard：Logitech，Model：Y-BL49

4.4. CPU Board：EPIC-QM57

4.5. Memory：DDR3 1066 2GB

4.6. HDD：Toshiba 2”5 MK1060GSC 100G

4.7. Power Supply：FSP084-DMAA1 AC-DC Power for ACP-5185

5. AC Adapter Spec

AC Input：90VAC~264VAC / 47Hz~63Hz

DC Output：12Vdc Min Load：0A　Full Load：7A / 84W

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6. Test Item

Test Item	Test Condition / Specification		Sanction	
			Measured	Result
6.1. AC Input Current	I/P:115VAC	1.3A	0.991A	PASS
6.2. MAX Inrush Current	I/P:115VAC	A	4.57A	-
	I/P:230VAC	A	6.32A	-
6.3. Input Frequency & Voltage	I/P:90VAC/47HZ	■ON □ OFF	-	PASS
	I/P:90VAC/63HZ	■ON □ OFF	-	PASS
	I/P:264VAC/47HZ	■ON □ OFF	-	PASS
	I/P:264VAC/63HZ	■ON □ OFF	-	PASS
6.4. Switching Test	Switching Time: 0.5 Sec MIN Load / Full Load	@90VAC ■ON □ OFF	-	PASS
	Switching Time: 0.5 Sec MIN Load / Full Load	@115VAC ■ON □ OFF	-	PASS
	Switching Time: 0.5 Sec MIN Load / Full Load	@230VAC ■ON □ OFF	-	PASS
	Switching Time: 0.5 Sec MIN Load / Full Load	@264VAC ■ON □ OFF	-	PASS
6.5. Efficiency	I/P:90VAC O/P:5A	@83%Min	86.007%	PASS
	I/P:115VAC O/P:5A	@83%Min	87.355%	PASS
	I/P:230VAC O/P:5A	@83%Min	87.029%	PASS
	I/P:264VAC O/P:5A	@83%Min	86.674%	PASS
6.6. Line Regulation	I/P:90VAC~264VAC	<%	0.042%	-
6.7. Load Regulation	I/P:115VAC O/P:MIN~FULL LOAD	<%	1.975	-
	I/P:230VAC O/P:MIN~FULL LOAD	<%	2.042	-
6.8. Over-Voltage Protection	I/P:230VAC O/P:MIN LOAD	V1：17 (MAX)	-	-
6.9. Over-Circuit Protection	O/P: 12V	9.4A(MAX)	8.4A	PASS
6.10. Over-Load Protection	I/P:90VAC O/P:MIN LOAD	135%	120%	PASS
	I/P:115VAC O/P:MIN LOAD	135%	122%	PASS
	I/P:230VAC O/P:MIN LOAD	135%	120%	PASS
	I/P:264VAC O/P:MIN LOAD	135%	121%	PASS
6.11. Short Circuit Protect	I/P:115VAC O/P:MIN LOAD	12V&GND Short	-	PASS
	I/P:230VAC O/P:MIN LOAD	12V&GND Short	-	PASS
6.12. Line Voltage Surge	O/P: FULL LOAD	Surge voltage from 132VAC to 147VAC (0.5sec), back to 132VAC	-	PASS
	O/P: FULL LOAD	Surge voltage from 264VAC to 293VAC (0.5sec), back to 264VAC	-	PASS

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6.13. Line Voltage Sag	O/P: FULL LOAD	Sag voltage from 108VAC to 80VAC (0.5sec), back to 108VAC	-	PASS
	O/P: FULL LOAD	Sag voltage from 198VAC to 161VAC (0.5sec), back to 198VAC	-	PASS
6.14. Ripple & Noise	I/P:115VAC O/P:FULL LOAD	≦150mv	110.9mv	PASS
	I/P:230VAC O/P:FULL LOAD	≦150mv	93.8mv	PASS
6.15. Setup Time	I/P:115VAC O/P:FULL LOAD	3S(MAX)	729ms	PASS
	I/P:230VAC O/P:FULL LOAD	mS(MAX)	505ms	PASS
6.16. Hold up Time	I/P:115VAC O/P:FULL LOAD	20mS(MIN)	32.6ms	PASS
	I/P:230VAC O/P:FULL LOAD	mS(MIN)	84.5ms	PASS
6.17. Rise Time	I/P:115VAC O/P:FULL LOAD	mS(MAX)	4.76ms	PASS
	I/P:230VAC O/P:FULL LOAD	mS(MAX)	5.76ms	PASS
6.18. Turn on Overshoot	Turn on overshoot shall not exceed 10% over nominal voltages@ 20 % LOAD		-	PASS
	Turn on overshoot shall not exceed 10% over nominal voltages@ 20 % LOAD		-	PASS
6.19. Turn off Undershoot	Turn off undershoot shall not exceed 10% over nominal voltages		-	PASS
	Turn off undershoot shall not exceed 10% over nominal voltages		-	PASS
6.20. Remote ON/OFF	Simulate TTL signal to test this function			-
6.21. Power Good Signal	Shall go high level with a delay of100~500ms		-	-
6.22. Power On In Low Temperature	I/P:115VAC (0℃) After 2HR Power On			-
6.23. Power On In High Temperature	I/P:115VAC (40℃)After 2HR Power On			-
6.24. System Power Consumption Test	No Run Prime95	I/P:100AC 0.37A 35.5W	O/P: 12V/3.22A	PASS
	Run Prime95	I/P:100VAC 0.68A 68.4W	O/P: 12V/4.99A	PASS

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