

# R1V2-5275V4H

## of

# FWS-7811

Summary	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <b>Note : There are <u>0</u> defect(s) not list in the report, please check it in the DTS Website.</b> <input type="checkbox"/> Pass with Deviation <b>Comment:</b> _____			
	Test Result Summary			
	Critical	Major	Minor	Enhancement
Defect Found	0	0	0	0
Defect Unsolved	0	0	0	0

Issue date

**05/19/2014**

Approval

**Tom Lin**

Test Engineer

**Sean Hsu**

## Table of Contents

1. Project .....	3
2. Power Manufacturer .....	3
3. Test Equipment .....	3
4. AC Adapter Spec .....	3
5. Test Item .....	4
5.1. AC Input Current .....	4
5.2. Input Frequency & Voltage .....	4
5.3. Efficiency .....	4
5.4. Line Regulation .....	4
5.5. Load Regulation .....	4
5.6. Short Circuit Protect .....	4
5.7. Ripple & Noise .....	4
5.8. Turn-On Delay Time .....	4
5.9. Hold up Time .....	4
5.10. Rise Time .....	4
5.11. Turn on Overshoot .....	4
5.12. Turn off Undershoot .....	5
5.13. Remote ON/OFF .....	5
5.14. System Power Consumption Test .....	5

**1. Project**

R1V2-5275V4H AC-DC Power Supply for FWS-7811  
P/N:B00R1V227V082

**2. Power Manufacturer**

ZIPPY

**3. Test Equipment**

- 3.1. LCD Monitor : DELL , Model : U2410W
- 3.2. USB Mouse : Logitech , Model : M-BT85
- 3.3. USB Keyboard : Logitech , Model : Y-BL49
- 3.4. CPU Board : AAEON , FWB-7811 REV.A0.1
- 3.5. CPU : INTEL , Xeon E3-1225 V3 3.2GHz
- 3.6. HDD : TOSHIBA , MK3276GSX , 320GB
- 3.7. Memory : Transcend , DDR3-1333 4GB\*2
- 3.8. LAN Riser Card : AAEON , PER-C37L REV.A0.1
- 3.9. Power Supply : ZIPPY , M/N : R1V2-5275V4H , O/P : 275Watt

**4. AC Adapter Spec**



Adobe Acrobat  
Document

5. Test Item

Test Item	Test Condition / Specification		Sanction	
			Measured	Result
5.1. AC Input Current	I/P:100VAC	4A	3.59A	PASS
	I/P:264VAC	2A	1.42A	PASS
5.2. 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
5.3. Efficiency	I/P:115VAC FULL LOAD	@%Min	77.92%	N/A
	I/P:230VAC FULL LOAD	@78%Min	79.485%	PASS
5.4. Line Regulation	I/P:90VAC~264VAC O/P: FULL LOAD	<±5%(3.3V)	0.3%	PASS
		<±5%(5V)	0.2%	PASS
		<±5%(12V)	-0.08%	PASS
		<±10%(-12V)	-0.08%	PASS
		<±5%(5VSB)	0%	PASS
5.5. Load Regulation	I/P:115VAC O/P:MINLOAD	<±5%(3.3V)/0.3A	3.36/1.18%	PASS
		<±5%(5V)/0.3A	5.10/2%	PASS
		<±5%(12V)/1A	12.22/1.83%	PASS
		<±10%(-12V)/0A	-12.11/0.92%	PASS
		<±5%(5VSB)/0A	5.16/3.2%	PASS
	I/P:230VAC O/P:MINLOAD	<±5%(3.3V)/0.3A	3.36/1.18%	PASS
		<±5%(5V)/0.3A	5.10/2%	PASS
		<±5%(12V)/1A	12.22/1.83%	PASS
		<±10%(-12V)/0A	-12.11/0.92%	PASS
		<±5%(5VSB)/0A	5.16/3.2%	PASS
	I/P:115VAC O/P: FULL LOAD	<±5%(3.3V)/6A	3.34/1.21%	PASS
		<±5%(5V)/6.04A	5.05/1%	PASS
		<±5%(12V)/3.03A	12.01/0.08%	PASS
		<±10%(-12V)/0.3A	-12.15/1.25%	PASS
		<±5%(5VSB)/2A	4.98/-0.4%	PASS
	I/P:230VAC O/P: FULL LOAD	<±5%(3.3V)/6A	3.34/1.21%	PASS
<±5%(5V)/6.04A		5.06/1.2%	PASS	
<±5%(12V)/3.03A		12.00/0%	PASS	
<±10%(-12V)/0.3A		-12.14/1.16%	PASS	
<±5%(5VSB)/2A		4.98/-0.4%	PASS	
5.6. Short Circuit Protect	I/P:115VAC O/P:MIN LOAD	5V&GND Short	-	PASS
	I/P:230VAC O/P:MIN LOAD	5V&GND Short	-	PASS
5.7. Ripple & Noise	I/P:115VAC O/P:FULL LOAD	≤ 50mv(3.3V)	45.2mv	PASS
		≤ 50mv(5V)	48.4mv	PASS
		≤ 120mv(12V)	100.6v	PASS
		≤ 120mv(-12V)	72.5mv	PASS
		≤ 50mv(5VSB)	49.4mv	PASS
5.8. Turn-On Delay Time	I/P:115VAC O/P:FULL LOAD	2000mS(MAX)(5V)	847ms	PASS
5.9. Hold up Time	I/P:115VAC O/P:FULL LOAD	20mS(MIN) (5V)	39.2ms	PASS
	I/P:230VAC O/P:FULL LOAD	20mS(MIN) (5V)	38.55ms	PASS
5.10. Rise Time	I/P:115VAC O/P:FULL LOAD	20mS(MAX) (5V)	4.929ms	PASS
5.11. 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

5.12. 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
5.13. Remote ON/OFF	Simulate TTL signal to test this function			-
5.14. System Power Consumption Test	No Run Prime95	I/P:90VAC 0.58A 52.2W	O/P: 3.3V/1.8A 5V/1.4A 12V/1.4A -12V/0.02A 5VSB/0.02A 30.98W	PASS
	Run Prime95	I/P:90VAC 1.42A 127.4W	O/P: 3.3V/1.96A 5V/2.12A 12V/6.5A -12V/0.05A 5VSB/0.24A 96.868W	PASS
	Sleep Mode(S3)	I/P:90VAC 3.5W		PASS
	Standby Mode	I/P:90VAC 1.9W		PASS