

Report NO: 14I0A0007_I

HG2-5600V TEST WITH NVR-6300S Power Electronics Test Report

Summary	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail Note : There are <u>0</u> defect(s) not list in the report, please check it in the DTS Website. <input type="checkbox"/> 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
07/09/2014	Tom Lin	Sean Hsu

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1. Project

HG2-5600V AC-DC Power Supply for NVR-6300S
BIOS REV.R0.3(NV87AM03) 04/17/2014

2. Power Manufacturer

Zippy

3. Team Member

PM : Jason Liu ; H/W : Damon Chang

4. Test Equipment

- 4.1. CPU Board : AAEON , NVR-6300S REV.A0.2
- 4.2. CPU : INTEL , CORE I7-4770S 3.1GHz
- 4.3. HDD : TOSHIBA , MK3261GSX , 320GB
- 4.4. HDD : WD , WD3200AAKX , 320GB*6
- 4.5. HDD : SEAGATE , ST500DM002 , 500GB*5
- 4.6. Memory : Transcend , DDR3-1600 8GB*2
- 4.7. Memory : INNODISK , DDR3-1600 8GB*2
- 4.8. Power Supply : ZIPPY , M/N : HG2-5600V , O/P : 600Watt
- 4.9. LCD Monitor : CHIMEI , Model : A170E2-T08
- 4.10. USB Mouse : LOGITECH , Model : M-BT85
- 4.11. USB Keyboard : LOGITECH , Model : Y-BL49

5. AC Adapter Spec

AC Input : 100VAC~240VAC / 47Hz~63Hz

DC Output : 600W

6. Test Item

Test Item	Test Condition / Specification		Sanction	
			Measured	Result
6.1. 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
6.2. Efficiency	I/P:115VAC 50% LOAD	@80%Min	85.397%	PASS
6.3. Line Regulation	I/P:115VAC~230VAC O/P: MIN Load	<±5%(3.3V)	0%	PASS
		<±5%(5V)	0%	PASS
		<±5%(12V)	0%	PASS
		<±5%(-12V)	0%	PASS
		<±5%(5VSB)	0%	PASS
6.4. Load Regulation	I/P:115VAC O/P:Min Load~50% Load	<±5% (3.3V)/0.5A/9.682A	1.52/-3.56%	PASS
		<±5% (5V)/0.5A/9.682A	1.12/-1.45%	PASS
		<±5% (12V)/1A/17.428A	0.225/-0.625%	PASS
		<±10% (-12V)/0A/0.310A	0.33/-0.083%	PASS
		<±5% (5VSB)/0.1A/1.356A	2.1/-0.05%	PASS
6.5. 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
6.6. Turn-On Delay Time	I/P:115VAC O/P:50% LOAD	2000mS(MAX)(5V)	644ms	PASS
	I/P:230VAC O/P:50% LOAD	2000mS(MAX)(5V)	285ms	PASS
6.7. Hold up Time	I/P:115VAC O/P:50% LOAD	16mS(MIN) (5V)	44.3ms	PASS
	I/P:230VAC O/P:50% LOAD	16mS(MIN) (5V)	45.6ms	PASS
6.8. Rise Time	I/P:115VAC O/P:50% LOAD	50mS(MAX) (5V)	9.5ms	PASS
	I/P:230VAC O/P:50% LOAD	50mS(MAX) (5V)	11.276ms	PASS
6.9. Power Consumption Test with AC Power	No Run Prime95	I/P:100VAC 1.17A 117.9W	O/P: 3.3V/2.1A 5V/3.86A 12V/4.17A -12V/0.03A 5VSB.1.09A 82.08W	Passed
	Run Prime95	I/P:100VAC 1.71A 169.4W	O/P: 3.3V/2.1A 5V/5.36A 12V/7.45A -12V/0.03A 5VSB.1.09A 128.94W	Passed
	Sleep Mode	I/P:100VAC 0.12A 5.2W		Passed
	Off Mode	I/P:100VAC 0.1A 4.2W		Passed