

Seasonic Focus GX-1000 ATX3.0

Anex

Lab ID#: SS10002239 Receipt Date: Aug 17, 2023 Test Date: Sep 18, 2023

Report: 23PS2239A

Report Date: Sep 19, 2023

DUT	INFORMATION	

Brand	Seasonic
Manufacturer (OEM)	Seasonic
Series	Focus GX
Model Number	SSR-1000FX
Serial Number	
DUT Notes	

DUT SPECIFICATIONS				
Rated Voltage (Vrms)	100-240			
Rated Current (Arms)	13-6.5			
Rated Frequency (Hz)	50-60			
Rated Power (W)	1000			
Туре	ATX12V			
Cooling	135mm Fluid Dynamic Bearing Fan (HA13525H12F-Z)			
Semi-Passive Operation	✓ (selectable)			
Cable Design	Fully Modular			

TEST EQUIPMENT	
Electronic Loads	Chroma 63601-5 x2 Chroma 63600-2 63640-80-80 x10 63610-80-20
AC Sources	Chroma 6530, APM SP300VAC4000W-P
Power Analyzers	RS HMC8015, N4L PPA1530, N4L PPA5530
Oscilloscopes	Picoscope 4444, Rigol DS7014, Siglent SDS2104X PLUS
Sound Analyzer	Bruel & Kjaer 2270 G4
Microphone	Bruel & Kjaer Type 4955-A
Temperature Logger	Picoscope TC-08
Tachometer	UNI-T UT372
Multimeters	Keysight 34465A, Keithley 2015 - THD
UPS	FSP Champ Tower 3kVA, CyberPower OLS3000E 3kVA
Isolation Transformer	4kVA

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

Seasonic Focus GX-1000 ATX3.0

RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	1
(EU) No 617/2013 Compliance	1
ALPM (Alternative Low Power Mode) compatible	1
ATX v3.0 PSU Power Excursion	✓

115V		230V		
Average Efficiency	88.916%	Average Efficiency	91.061%	
Efficiency With 10W (≤500W) or 2% (>500W)	72.451	Average Efficiency 5VSB	74.844%	
Average Efficiency 5VSB	76.118%	Standby Power Consumption (W)	0.1598000	
Standby Power Consumption (W)	0.0505000	Average PF	0.941	
Average PF	0.977	Avg Noise Output	29.46 dB(A)	
Avg Noise Output	29.47 dB(A)	Efficiency Rating (ETA)	GOLD	
Efficiency Rating (ETA)	GOLD	Noise Rating (LAMBDA)	A-	
Noise Rating (LAMBDA)	A-			

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	25	25	83	3	0.3
	Watts	125		996	15	3.6
Total Max. Power (W)		1000				

HOLD-UP TIME & POWER OK SIGNAL (230V)

Hold-Up Time (ms)	21.4
AC Loss to PWR_OK Hold Up Time (ms)	16.4
PWR_OK Inactive to DC Loss Delay (ms)	5

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

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CABLES AND CONNECTORS

Modular Cables				
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (620mm)	1	1	16-18AWG	No
4+4 pin EPS12V (610mm)	2	2	16AWG	No
6+2 pin PCIe (750mm)	3	3	16AWG	No
12+4 pin PCle (750mm) (600W)	1	1	16-28AWG	No
SATA (510mm+155mm+155mm+155mm)	2	8	18AWG	No
SATA 3.3 (410mm+160mm)	1	2	18AWG	No
4-pin Molex (450mm+125mm+125mm)	1	3	18AWG	No
AC Power Cord (1400mm) - C13 coupler	1	1	18AWG	-

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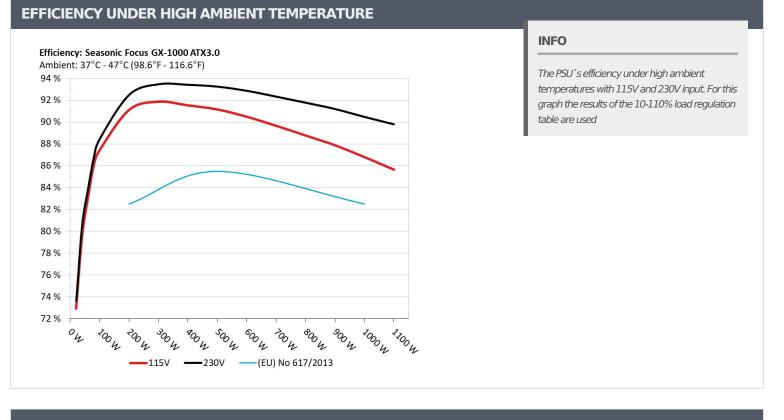
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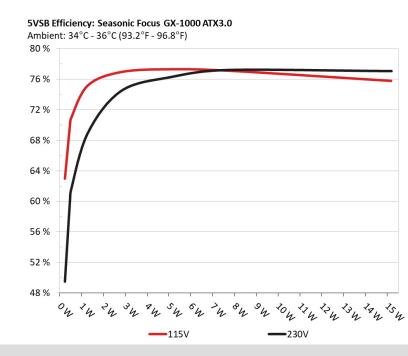


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5VSB EFFICIENCY



INFO

This graph depicts the efficiency levels of the 5VSB rail with 115V and 230V input

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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)					
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts	
1	0.045A	0.231W	CD 4010/	0.035	
1	5.137V	0.37W	62.481%	114.91V	
2	0.09A	0.462W	- CO 4020/	0.062	
2	5.136V	0.665W	69.493%	114.92V	
2	0.55A	2.819W		0.27	
3	5.125V	3.688W	76.441%	114.92V	
4	1A	5.115W	76.0000/	0.37	
4	5.114V	6.66W	76.803%	114.91V	
_	1.5A	7.653W	76 6100/	0.42	
5	5.102V	9.989W	76.619%	114.91V	
	ЗА	15.18W		0.492	
6	5.06V	20.165W 75.279%		/5.2/9%	114.91V

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.231W	40.0000/	0.013
1	5.137V	0.473W	48.999%	229.88V
2	0.09A	0.462W	50 (000)	0.022
2	5.135V	0.776W	59.602%	229.88V
2	0.55A	2.818W	73.008%	0.103
3	0.55A 2.818W 73.998% 5.124V 3.807W 73.998%	73.998%	229.88V	
	1A	5.114W	75.0150/	0.17
4	5.114V	6.745W	75.815%	229.88V
-	1.5A	7.653W	76 7000/	0.223
5	5.101V	9.976W	76.722%	229.88V
	ЗА	15.191W	76 5000/	0.335
6	5.064V	19.838W	76.582%	229.88V

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

Seasonic Focus GX-1000 ATX3.0

115V

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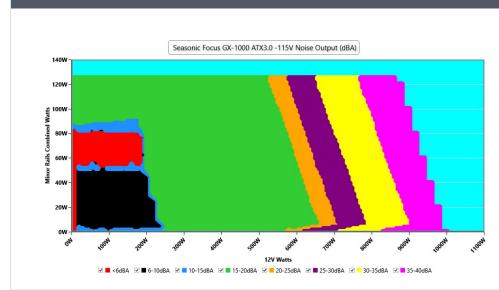


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EFFICIENCY GRAPH 115V INFO Seasonic Focus GX-1000 ATX3.0 -115V Overall Efficiency This graph depicts the PSU's efficiency throughout 140W its entire operational range. For the generation of 120W the efficiency and noise graphs we set our loaders to auto mode through our custom-made software Mont Vatts before trying thousands of possible load combinations Rails Combined 80W 60W Ainor 40W 20W ow 20004 and a oon GOON TOON 12V Watts ☑ 90-92% ☑ 85-90% ☑ 80-85% ☑ 75-80% ☑ 70-75% ☑ 60-70% ☑ < <60%

NOISE GRAPH 115V



INFO

The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

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VAMPIRE POWER -115V

Detailed Results						
	Average	Min	Limit Min	Мах	Limit Max	Result
Mains Voltage RMS:	114.91 V	114.82 V	113.85 V	115.01 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.95 Hz	59.40 Hz	60.06 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.421	1.419	1.340	1.424	1.490	PASS
Mains Voltage THD:	0.32 %	0.25 %	N/A	0.41%	2.00 %	PASS
Real Power:	0.051 W	-0.003 W	N/A	0.092 W	N/A	N/A
Apparent Power:	10.810 W	10.782 W	N/A	10.844 W	N/A	N/A
Power Factor:	0.006	N/A	N/A	N/A	N/A	N/A

INFO

This graph is generated by the PPA Standby Power Analysis software which takes full control of the power analyzer during the whole procedure. This application features all of the EN50564 & IEC62301 test limits for standby power software testing

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10-11	10% LOA	D TESTS	115V							
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100/	6.462A	1.987A	1.982A	0.98A	99.989	96.0210/	0	-60	44.69°C	0.945
10%	12.131V	5.033V	3.331V	5.103V	115.018	86.931%	0	<6.0	40.41°C	114.88V
20%	13.956A	2.982A	2.974A	1.179A	199.938	00 61 90/	0	-60	45.31°C	0.969
20%	12.112V	5.03V	3.328V	5.09V	220.639	90.618%	0	<6.0	40.59°C	114.85V
200/	21.792A	3.48A	3.472A	1.379A	299.982	01 2720/	0	-60	46.39°C	0.977
30%	12.111V	5.028V	3.327V	5.078V	328.306	91.373%	0	<6.0	41.3°C	114.82V
400/	29.568A	3.98A	3.97A	1.579A	399.573	01.0420/	664	15.0	41.8°C	0.982
40%	12.120V	5.026V	3.325V	5.066V	438.884	91.042%	664	15.9	47.38°C	114.78V
E00/	37.037A	4.977A	4.966A	1.781A	499.256	00 6690/	664	15.0	42.18°C	0.983
50%	12.117V	5.023V	3.323V	5.054V	550.645	90.668%	004	15.9	48.26°C	114.75V
600/	44.559A	5.977A	5.963A	1.984A	599.761	90.0070/	660	15.7	42.8°C	0.985
60%	12.118V	5.02V	3.321V	5.042V	666.423	89.997%	660		49.37°C	114.7V
700/	52.009A	6.977A	6.962A	2.187A	699.487	00.1600/	823	22.9	43.33°C	0.987
70%	12.121V	5.017V	3.318V	5.029V	784.461	89.168%	023	22.9	50.38°C	114.67V
000/	59.521A	7.978A	7.962A	2.291A	799.514	88.28%	1018	29.9	43.98°C	0.988
80%	12.123V	5.015V	3.316V	5.019V	905.662				52.01°C	114.62V
000/	67.360A	8.478A	8.448A	2.395A	899.292	07 2050/	1194	34.4	44.37°C	0.99
90%	12.126V	5.012V	3.314V	5.01V	1029.123	87.385%	1194	54.4	53.45°C	114.59V
100%	74.989A	8.98A	8.967A	3.007A	999.278	06 2040/	1500	41.0	45.54°C	0.991
100%	12.130V	5.01V	3.312V	4.987V	1157.853	86.304%	1536	41.8	55.57°C	114.55V
1100/	82.549A	9.983A	10.061A	3.012A	1099.92	95 1 400/	1957	E1 E	46.76°C	0.991
110%	12.134V	5.008V	3.31V	4.98V	1291.764	85.149%	1957	51.5	57.69°C	114.49V
0.1	0.114A	15.025A	14.973A	0A	126.29	02.0060/	620	12 5	40.53°C	0.958
CL1	12.138V	5.011V	3.313V	5.118V	150.37	83.986%	620	13.5	46.02°C	114.87V
CL2	0.114A	24.935A	0A	0A	126.235	82.277%	768	20.7	40.23°C	0.958
ULZ	12.133V	5.007V	3.32V	5.121V	153.425	02.21170	700	20.7	47.33°C	114.87V
CL3	0.114A	0A	24.911A	0A	83.899	76 2560/	765	20.5	40.12°C	0.945
ULS .	12.148V	5.017V	3.312V	5.121V	110.023	76.256%	765	20.5	49.14°C	114.88V
0.4	82.552A	0A	0A	0A	999.884	07 2670/	1207	0 00	45.12°C	0.99
CL4	12.112V	5.025V	3.325V	5.069V	1145.787	87.267%	1397	38.8	56.1°C	114.55V

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20-80W LOAD TESTS 115V										
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
2014	1.234A	0.496A	0.495A	0.195A	20.004	70 41 00/	2.418% 0) <6.0	39.79°C	0.799
20W 12.031\	12.031V	5.039V	3.334V	5.129V	27.623	72.418%			36.72°C	114.93V
40144	2.720A	0.695A	0.693A	0.293A	40.004	70.000/	0	<6.0	40.48°C	0.891
40W	12.021V	5.038V	3.333V	5.125V	50.641	78.99%			37.18°C	114.91V
C011/	4.167A	0.893A	0.891A	0.391A	59.999	02 5100/	0	<6.0	42.22°C	0.924
60W	12.126V	5.037V	3.333V	5.121V	72.71	82.518%			38.39°C	114.9V
	5.632A	1.092A	1.089A	0.489A	79.94		0	<6.0	43.09°C	0.937
80W	12.128V	5.035V	3.332V	5.117V	93.44	85.551%	0		39.16°C	114.89V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	11.21mV	8.58mV	9.62mV	16.73mV	Pass
20% Load	16.27mV	11.29mV	11.05mV	17.29mV	Pass
30% Load	16.06mV	10.07mV	10.54mV	21.23mV	Pass
40% Load	17.70mV	11.55mV	12.38mV	20.92mV	Pass
50% Load	19.24mV	13.90mV	13.81mV	23.12mV	Pass
60% Load	20.21mV	13.28mV	14.27mV	25.57mV	Pass
70% Load	21.49mV	14.15mV	14.43mV	25.42mV	Pass
80% Load	23.89mV	16.25mV	16.22mV	25.27mV	Pass
90% Load	23.33mV	18.49mV	17.04mV	27.77mV	Pass
100% Load	29.16mV	20.65mV	19.73mV	35.58mV	Pass
110% Load	30.19mV	23.24mV	22.48mV	36.15mV	Pass
Crossload1	27.59mV	11.70mV	12.31mV	17.36mV	Pass
Crossload2	17.34mV	19.87mV	11.10mV	16.27mV	Pass
Crossload3	11.72mV	10.68mV	16.37mV	17.19mV	Pass
Crossload4	29.30mV	18.31mV	19.42mV	38.96mV	Pass

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

Seasonic Focus GX-1000 ATX3.0

230V

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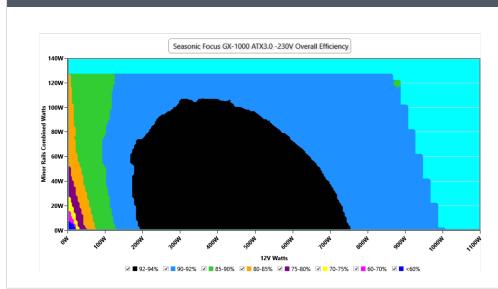
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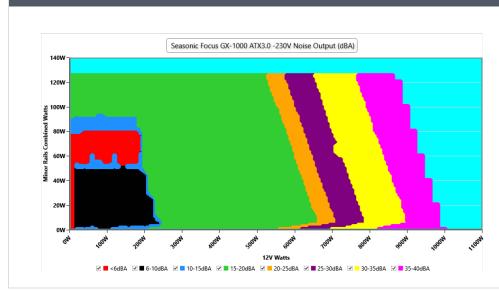
EFFICIENCY GRAPH 230V



INFO

This graph depicts the PSU's efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

NOISE GRAPH 230V



INFO

The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

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VAMPIRE POWER -230V

Detailed Results										
	Average	Min	Limit Min	Мах	Limit Max	Result				
Mains Voltage RMS:	229.90 V	229.80 V	227.70 V	230.00 V	232.30 V	PASS				
Mains Frequency:	50.00 Hz	49.97 Hz	49.50 Hz	50.02 Hz	50.50 Hz	PASS				
Mains Voltage CF:	1.417	1.415	1.340	1.419	1.490	PASS				
Mains Voltage THD:	0.19 %	0.15 %	N/A	0.26 %	2.00 %	PASS				
Real Power:	0.160 W	0.111 W	N/A	0.219 W	N/A	N/A				
Apparent Power:	36.816 W	36.751 W	N/A	36.887 W	N/A	N/A				
Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A				

INFO

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10-110% LOAD TESTS 230V											
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts	
100/	6.460A	1.987A	1.982A	0.98A	99.991	07.05.40/	0	-6.0	44.72°C	0.816	
10%	12.136V	5.032V	3.33V	5.102V	113.687	87.954%	0	<6.0	40.5°C	229.87V	
20%	13.954A	2.982A	2.975A	1.179A	199.938	91.982%	0	<6.0	45.46°C	0.906	
20%	12.114V	5.03V	3.328V	5.09V	217.361	91.902%	0	<0.0	40.92°C	229.85V	
200/	21.789A	3.481A	3.473A	1.379A	299.987	92.949%	0	-60	46.55°C	0.937	
30%	12.114V	5.027V	3.326V	5.077V	322.746	92.949%	0	<6.0	41.51°C	229.83V	
400/	29.580A	3.98A	3.971A	1.579A	399.506	02 8000/	667	16.0	41.81°C	0.953	
40%	12.113V	5.026V	3.324V	5.066V	430.039	92.899%	667	16.0	47.25°C	229.82V	
E00/	37.047A	4.977A	4.967A	1.781A	499.233	- 02 7220/	666	16.0	42.04°C	0.961	
50%	12.112V	5.023V	3.322V	5.054V	538.36	92.733%	666	16.0	48.12°C	229.8V	
60%	44.573A	5.977A	5.964A	1.984A	599.762	92.351%	661	15.8	42.77°C	0.967	
60%	12.114V	5.02V	3.32V	5.042V	649.44				49.32°C	229.78V	
70%	52.020A	6.977A	6.963A	2.187A	699.5	91.82%	824	22.9	43.28°C	0.971	
70%	12.118V	5.017V	3.318V	5.029V	761.815				50.32°C	229.77V	
900/	59.535A	7.978A	7.963A	2.291A	799.52	91.264%	1020	30.0	43.9°C	0.974	
80%	12.121V	5.015V	3.315V	5.019V	876.054				51.98°C	229.75V	
90%	67.370A	8.478A	8.449A	2.395A	899.317	00.60%	1197	34.5	44.2°C	0.976	
90%	12.125V	5.012V	3.314V	5.01V	991.639	90.69%	1197		53.23°C	229.73V	
100%	74.981A	8.98A	8.967A	3.008A	999.304	89.97%	1518	41.4	45.04°C	0.978	
100 %	12.132V	5.01V	3.312V	4.987V	1110.706	09.9770	1310	41.4	55.08°C	229.71V	
110%	82.555A	9.983A	10.061A	3.012A	1099.939	89.288%	1957	51.5	46.79°C	0.98	
11070	12.133V	5.008V	3.31V	4.98V	1231.913	09.20070	1957	JI.J	57.71°C	229.69V	
CL1	0.114A	15.022A	14.971A	0A	126.286	85.247%	631	14.2	40.44°C	0.862	
CLI	12.124V	5.012V	3.313V	5.119V	148.139	03.247%	051	14.2	45.89°C	229.86V	
CL2	0.114A	24.929A	0A	0A	126.238	83.508%	CEE	20.0	40.12°C	0.865	
ULZ	12.125V	5.009V	3.32V	5.121V	151.171	03.300 /0	773	20.9	47.17°C	229.86V	
(1.2	0.114A	0A	24.904A	0A	83.899	77 2560/	769	20.7	40.26°C	0.807	
CL3	12.144V	5.018V	3.313V	5.122V	108.595	77.256%	768	20.7	49.35°C	229.87V	
	82.574A	0A	0A	0A	999.918	00 7720/	1260	20.2	45.19°C	0.978	
CL4	12.109V	5.026V	3.325V	5.069V	1101.561	90.773%	1368	38.3	56.17°C	229.72V	

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Anex

Seasonic Focus GX-1000 ATX3.0

20-80W LOAD TESTS 230V										
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
2014/	1.234A	0.496A	0.495A	0.195A	19.994	72 1 220/	3.132% 0	<6.0	39.76°C	0.449
20W 12.036V	12.036V	5.039V	3.334V	5.129V	27.345	/3.132%			36.71°C	229.88V
4014/	2.718A	0.695A	0.693A	0.293A	39.994	00 0F 70/	0	<6.0	40.82°C	0.618
40W	12.028V	5.038V	3.333V	5.125V	49.956	80.057%			37.46°C	229.88V
COM	4.166A	0.893A	0.891A	0.39A	59.994			<6.0	41.93°C	0.718
60W	12.130V	5.037V	3.332V	5.121V	71.989	83.342%	0		38.42°C	229.87V
	5.630A	1.092A	1.09A	0.489A	79.937	06 2010/	_		42.83°C	0.776
80W	12.132V	5.034V	3.331V	5.117V	92.637	86.291%	0	<6.0	39.02°C	229.87V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	11.66mV	8.73mV	9.82mV	17.24mV	Pass
20% Load	15.09mV	11.24mV	10.44mV	18.62mV	Pass
30% Load	16.73mV	10.47mV	11.15mV	20.26mV	Pass
40% Load	17.34mV	12.62mV	13.10mV	23.53mV	Pass
50% Load	19.03mV	12.82mV	14.58mV	25.22mV	Pass
60% Load	20.77mV	13.59mV	13.35mV	24.45mV	Pass
70% Load	21.44mV	14.20mV	14.58mV	23.43mV	Pass
80% Load	22.61mV	16.04mV	16.01mV	25.57mV	Pass
90% Load	22.87mV	18.24mV	16.68mV	26.04mV	Pass
100% Load	29.72mV	20.14mV	18.81mV	32.06mV	Pass
110% Load	30.26mV	22.61mV	21.44mV	32.36mV	Pass
Crossload1	28.11mV	11.63mV	11.23mV	15.69mV	Pass
Crossload2	18.23mV	20.08mV	10.13mV	15.50mV	Pass
Crossload3	11.72mV	10.63mV	15.86mV	16.72mV	Pass
Crossload4	29.16mV	18.63mV	18.04mV	28.65mV	Pass

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