

Anex Seasonic SSR-850GD

Lab ID#: 73 Receipt Date: -Test Date: -

Report: 20PS73A

Report Date: Jan 4, 2000

DUT INFORMATION				
Brand	Seasonic			
Manufacturer (OEM)	Sea Sonic Electronics Co., Ltd.			
Series	Prime Gold			
Model Number	SSR-850GD			
Serial Number	R1701TA101480009			
DUT Notes				

DUT SPECIFICATIONS					
Rated Voltage (Vrms)	100-240				
Rated Current (Arms)	11-5.5				
Rated Frequency (Hz)	50-60				
Rated Power (W)	850				
Туре	ATX12V				
Cooling	135mm Fluid Dynamic Bearing Fan (HA13525M12F-Z)				
Semi-Passive Operation	✓ (selectable)				
Cable Design	Fully Modular				

POWER SPECIFICATIONS							
Rail		3.3V	5V	12V	5VSB	-12V	
May Payer	Amps	20	20 20		2.5	0.3	
Max. Power Watts		100	100		12.5	3.6	
Total Max. Power (W)		850	850				

CABLES AND CONNECTORS			
Modular Cables			
Description	Cable Count	Connector Count (Total)	Gauge
ATX connector 20+4 pin (610mm)	1	1	18-22AWG
4+4 pin EPS12V (650mm)	2	2	18AWG
6+2 pin PCle (680mm+80mm)	3	6	18AWG
SATA (460mm+120mm+120mm+120mm)	2	8	18AWG
SATA (360mm+120mm)	1	2	18AWG
4 pin Molex (460mm+130mm+130mm)	1	3	18AWG
4 pin Molex (360mm+130mm)	1	2	18AWG
FDD Adapter (+110mm)	1	1	22AWG

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RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
Average Efficiency	89.650
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	79.322
Standby Power Consumption (W) -115V	0.0576594
Standby Power Consumption (W) -230V	0.0921196
Average PF	0.989
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	✓
Avg Noise Output	43.25
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Standard

TEST EQUIPMENT					
Electronic Loads	Chroma 6314A x2 Chroma 63601-5 x2 63123A x6 Chroma 63600-2 63102A 63640-80-80 x10 63101A 63610-80-20				
AC Sources	Chroma 6530, Chroma 61604				
Power Analyzers	N4L PPA1530, N4L PPA5530				
Oscilloscopes	Picoscope 4444 & 3424, Keysight DSOX3024A, Rigol DS2072A				
Voltmeter	Keithley 2015 THD 6.5 Digit				
Sound Analyzer	Bruel & Kjaer 2250-L G4				
Microphone	Bruel & Kjaer Type 4189				
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2				

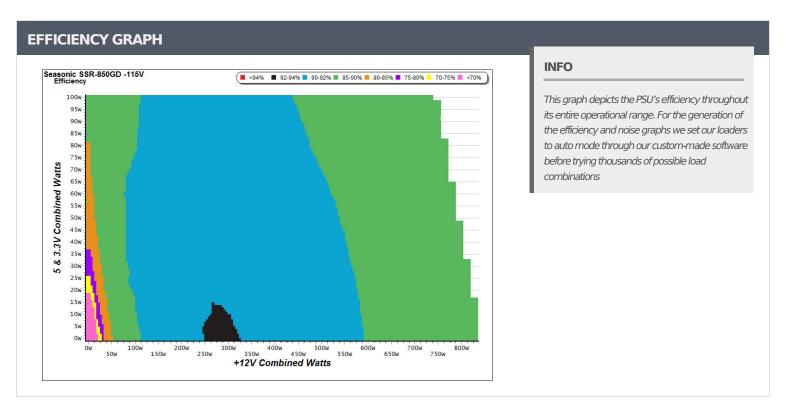
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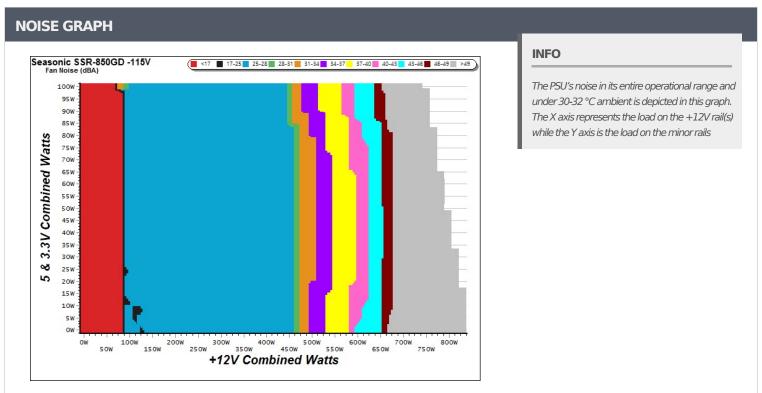
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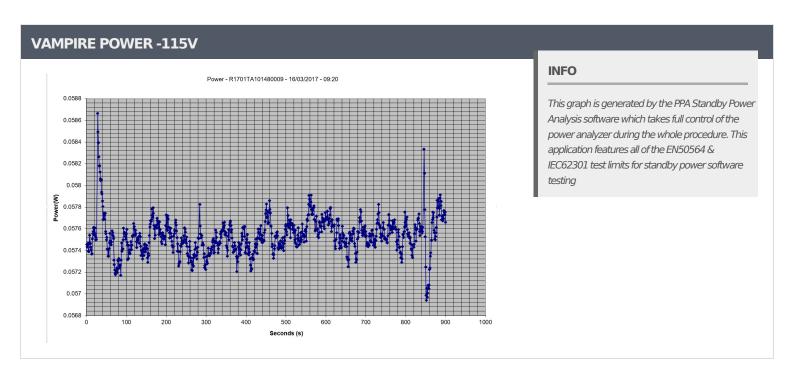


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5VSB	5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)						
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
	0.041A	0.212	C4 C240/	0.036			
1	5.111V	0.328	64.634%	115.08V			
2	0.087A	0.444	71 7200/	0.067			
2	5.109V	0.619	71.729%	115.08V			
	0.532A	2.705	70.6520/	0.278			
3	5.088V	3.396	79.653%	115.09V			
4	2.501A	12.496	70.0100/	0.481			
4	4.996V	15.834	78.919%	115.08V			

5VSB	5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)						
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.041A	0.212	E7 6000/	0.012			
Т	5.111V	0.368	57.609%	230.19V			
2	0.087A	0.444	66.867%	0.022			
	5.109V	0.664	00.807%	230.19V			
3	0.532A	2.704	76.0060/	0.109			
3	5.086V	3.516	76.906%	230.20V			
4	2.502A	12.469	70.6240/	0.322			
4	4.984V	15.859	78.624%	230.18V			

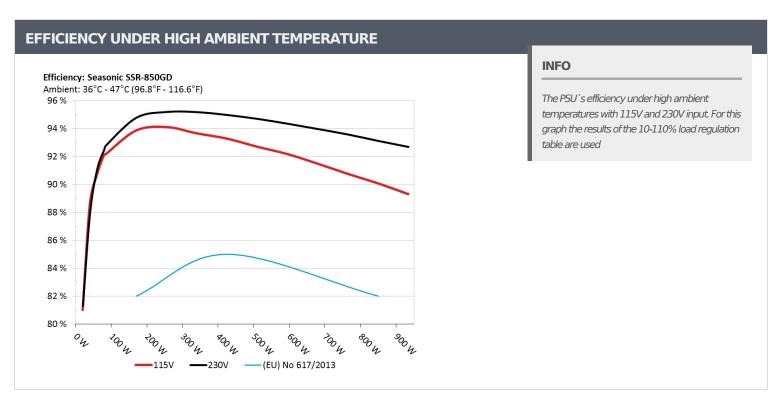


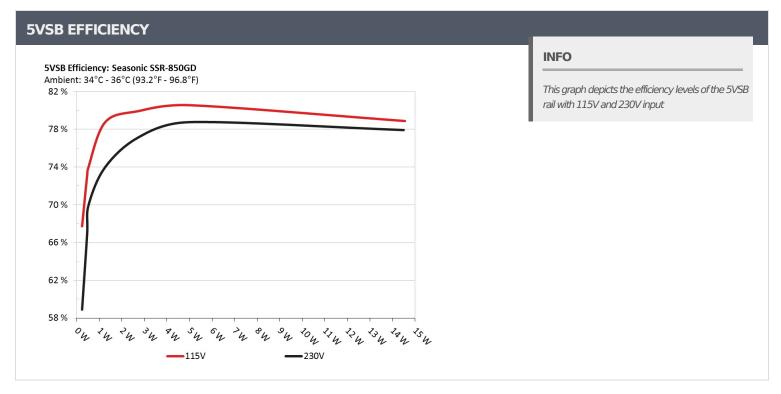
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10-1	.10% LOA	ID TESTS								
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	Temps (In/Out)	PF/AC Volts
1	5.169A	1.985A	1.983A	0.986A	84.798	07.2110/	750	25.1	38.21°C	0.968
1	12.235V	5.040V	3.324V	5.054V	97.233	87.211%	750	25.1	41.84°C	115.12\
2	11.352A	2.970A	2.976A	1.190A	169.643	00.5000/	750	25.1	38.81°C	0.990
2	12.227V	5.040V	3.323V	5.035V	187.309	90.569%	750	25.1	43.44°C	115.11V
2	17.907A	3.477A	3.489A	1.395A	254.921	01.2000/	705	27.4	39.72°C	0.985
3	12.219V	5.039V	3.321V	5.016V	278.938	91.390%	785	27.4	45.03°C	115.10V
4	24.452A	3.970A	3.974A	1.601A	339.720	01.2600/	1111	20.0	40.05°C	0.988
4	12.210V	5.038V	3.319V	4.996V	372.218	91.269%	1111	39.0	45.53°C	115.10\
_	30.667A	4.968A	4.972A	1.805A	424.656	00.7020/	1504	1584 44.3	41.01°C	0.991
5	12.202V	5.037V	3.317V	4.978V	468.186	90.702%	90.702% 1584		46.10°C	115.10\
6	36.897A	5.954A	5.971A	2.015A	509.621	00.0000/	1042	49.8	41.41°C	0.993
6	12.192V	5.037V	3.315V	4.960V	566.196	90.008%	1842		46.73°C	115.10\
7	43.133A	6.950A	6.972A	2.225A	594.584	00.2000/	2001	F2.4	42.11°C	0.995
7	12.184V	5.036V	3.313V	4.939V	666.505	89.209%	2061	52.4	47.84°C	115.10V
•	49.375A	7.943A	7.974A	2.437A	679.539	00 5000/	2001	F0.4	43.06°C	0.996
8	12.174V	5.036V	3.310V	4.920V	767.816	88.503%	2061	52.4	49.59°C	115.10V
	56.052A	8.445A	8.489A	2.441A	764.528	07.6410/	2001	F0.4	44.27°C	0.996
9	12.166V	5.036V	3.310V	4.910V	872.345	87.641%	2061	52.4	51.87°C	115.11V
10	62.683A	8.941A	8.979A	2.551A	849.283	06.67207			45.99°C	0.995
10	12.157V	5.036V	3.307V	4.892V	979.886	86.672%	2061	52.4	55.03°C	115.10\
11	69.725A	8.940A	8.984A	2.555A	934.095	05 5700/	2007	F2.4	46.53°C	0.993
11	12.147V	5.035V	3.305V	4.885V	1091.540	85.576%	2061	52.4	56.84°C	115.08\
01.1	0.098A	12.012A	12.005A	0.004A	101.816	02 5000/	2005	F0.4	43.43°C	0.983
CL1	12.248V	5.057V	3.317V	5.084V	121.923	83.508%	2061	52.4	48.43°C	115.14\
CI 2	69.948A	1.003A	1.003A	1.002A	862.778	07.07.00/	2007	F2.4	44.20°C	0.996
CL2	12.142V	5.026V	3.315V	4.985V	991.563	87.012%	2061	52.4	52.59°C	115.11\

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20-80	W LOAD	TESTS							
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	PF/AC Volts
1	1.193A	0.493A	0.480A	0.195A	19.672	60.0700/	750	25.1	0.833
1	12.240V	5.043V	3.331V	5.097V	28.152	69.878%	750	25.1	115.12V
2	2.411A	0.991A	0.989A	0.391A	39.762	00.7700/	750	25.1	0.924
2	12.238V	5.041V	3.329V	5.086V	49.224	80.778%			115.12V
2	3.628A	1.477A	1.500A	0.590A	59.803	04.7020/	25.1	0.956	
3	12.236V	5.040V	3.327V	5.074V	70.537	84.782%	750	25.1	115.12V
4	4.841A	1.985A	1.983A	0.787A	79.793	06.0070/	750	05.1	0.965
4	12.235V	5.041V	3.325V	5.064V	91.835	86.887%	750	25.1	115.12V

RIPPLE MEASUREMENTS						
Test	12V	5V	3.3V	5VSB	Pass/Fail	
10% Load	9.6 mV	6.3 mV	7.0 mV	7.3 mV	Pass	
20% Load	12.9 mV	5.4 mV	9.6 mV	8.2 mV	Pass	
30% Load	15.7 mV	6.6 mV	12.4 mV	9.7 mV	Pass	
40% Load	17.8 mV	7.9 mV	14.1 mV	10.7 mV	Pass	
50% Load	15.1 mV	8.0 mV	14.6 mV	11.6 mV	Pass	
60% Load	12.4 mV	7.6 mV	14.5 mV	13.5 mV	Pass	
70% Load	13.8 mV	7.8 mV	14.5 mV	15.6 mV	Pass	
80% Load	14.6 mV	7.8 mV	14.0 mV	16.8 mV	Pass	
90% Load	18.2 mV	8.1 mV	14.1 mV	18.6 mV	Pass	
100% Load	22.9 mV	8.4 mV	15.3 mV	19.4 mV	Pass	
110% Load	26.7 mV	9.3 mV	19.2 mV	21.2 mV	Pass	
Crossload 1	9.2 mV	5.9 mV	8.9 mV	7.3 mV	Pass	
Crossload 2	22.5 mV	8.5 mV	13.5 mV	18.1 mV	Pass	

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HOLD-UP TIME & POWER OK SIGNAL (230V)			
Hold-Up Time (ms)	24.44		
AC Loss to PWR_OK Hold Up Time (ms)	20.0		
PWR_OK Inactive to DC Loss Delay (ms)	4.44		







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