

Anex Seasonic SSR-1200GD

Lab ID#: 75
Receipt Date: -

Report Date: Jan 4, 2018

Report:

Test Date: -

DUT INFORMATION				
Brand	Seasonic			
Manufacturer (OEM)	Sea Sonic Electronics Co., Ltd.			
Series	Prime Gold			
Model Number	SSR-1200GD			
Serial Number	R1701TA101500010			
DUT Notes				

DUT SPECIFICATIONS					
Rated Voltage (Vrms)	100-240				
Rated Current (Arms)	15-7.5				
Rated Frequency (Hz)	50-60				
Rated Power (W)	1200				
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 Dayer	Amps	25	25	100	3	0.3	
Max. Power Watts		125	125		15	3.6	
Total Max. Power (W)		1200	1200				

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)	4	8	18AWG		
SATA (450mm+115mm+115mm+115mm)	3	12	18AWG		
4 pin Molex (450mm+120mm+120mm)	1	3	18AWG		
4 pin Molex (350mm+120mm)	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	89.346
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	79.943
Standby Power Consumption (W) -115V	0.0564252
Standby Power Consumption (W) -230V	0.0886190
Average PF	0.992
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓
Avg Noise Output	47.53
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	None

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					

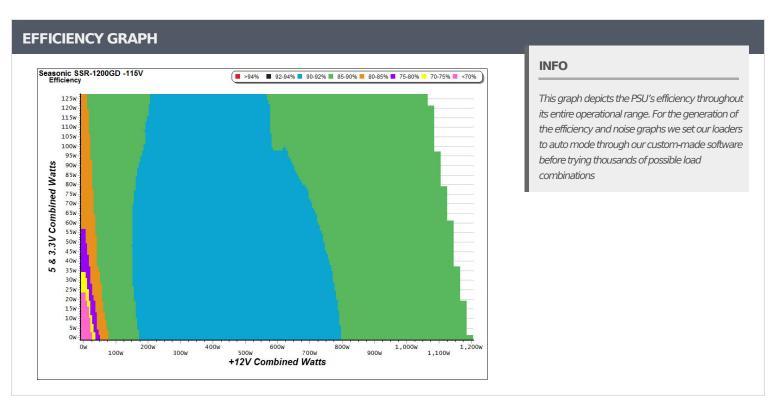
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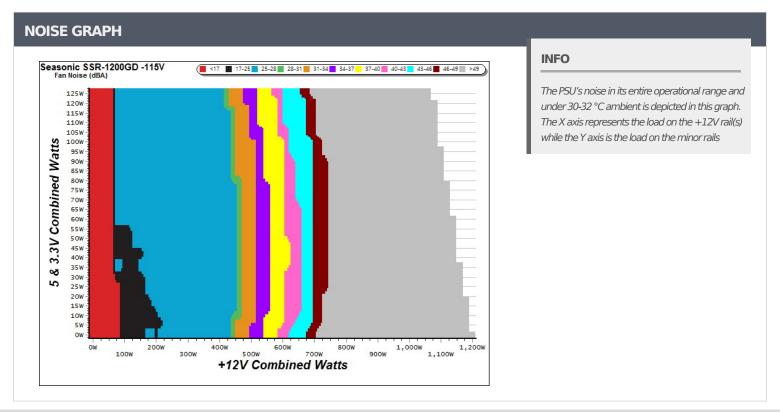
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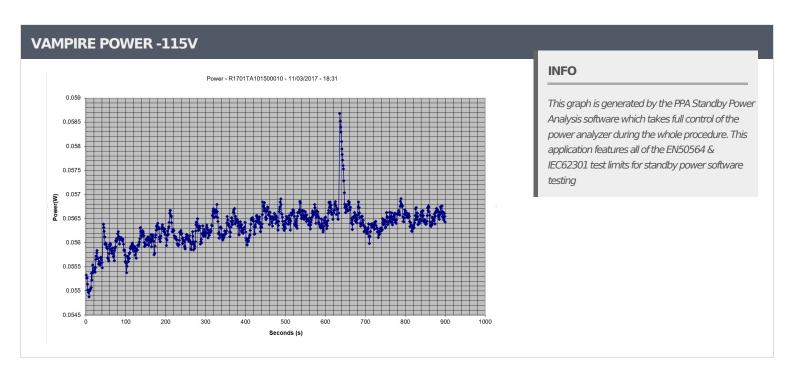


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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)						
Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts		
7	0.102A	0.518	74.1000/	0.075		
1	5.110V	0.699	74.106%	115.07V		
2	0.252A	1.284	70.7250/	0.162		
2	5.104V	1.631	78.725%	115.07V		
2	1.002A	5.081	00 2010/	0.377		
3	5.071V	6.329	80.281%	115.07V		
	3.002A	14.979	70.0010/	0.495		
4	4.990V	18.987	78.891%	115.07V		

5VSB	5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)						
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.042A	0.213	F7 4120/	0.012			
1	5.112V	0.371	57.412%	230.21V			
2	0.087A	0.446	60,0020/	0.022			
	5.110V	0.655	68.092%	230.21V			
3	0.532A	2.707	70 2050/	0.108			
3	5.090V	3.457	78.305%	230.22V			
4	3.002A	14.936	70.0050/	0.347			
4	4.976V	18.910	78.985%	230.21V			

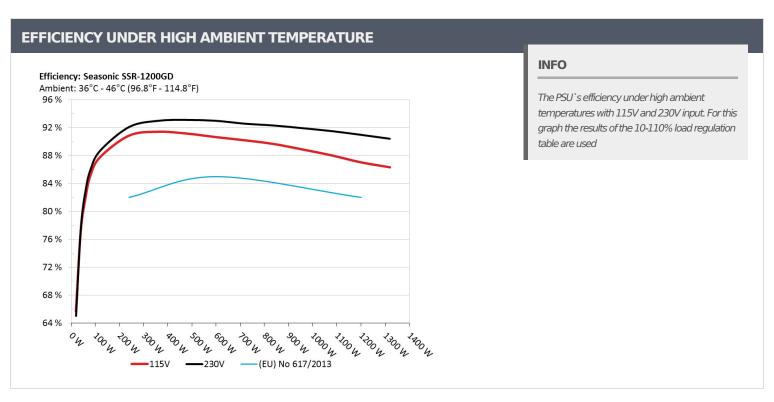


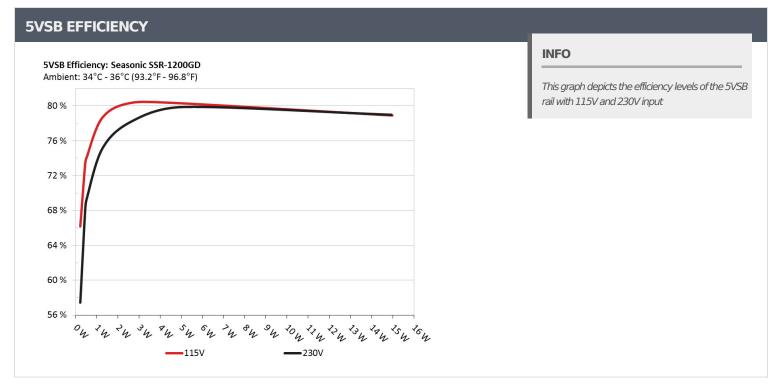
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10-1	.10% LOAI	TESTS								l,
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	Temps (In/Out)	PF/AC Volts
1	8.020A	1.983A	1.985A	0.986A	119.805	07.7600/	700	27.4	38.52°C	0.982
1	12.246V	5.049V	3.323V	5.055V	136.500	87.769%	769	27.4	43.85°C	115.10V
2	17.064A	2.969A	2.978A	1.190A	239.650	00.0520/	1007	22.6	39.35°C	0.984
2	12.235V	5.049V	3.321V	5.036V	263.777	90.853%	1007	33.6	44.89°C	115.09V
2	26.481A	3.466A	3.494A	1.395A	359.845	01.4000/	1240	42.1	39.98°C	0.989
3	12.226V	5.048V	3.319V	5.015V	393.679	91.406%	1349	42.1	45.86°C	115.08V
	35.898A	3.964A	3.976A	1.600A	479.643	01.1.470/	1000	F1.0	40.88°C	0.993
4	12.214V	5.047V	3.317V	4.994V	526.233	91.147%	1808	51.2	46.61°C	115.09V
_	44.991A	4.959A	4.974A	1.806A	599.565	00.6410/		F2.4	41.67°C	0.995
5	12.204V	5.046V	3.315V	4.974V	661.470	90.641%	2061	52.4	48.01°C	115.10V
_	54.110A	5.943A	5.975A	2.015A	719.468	00 1010/	2061	F0.4	42.55°C	0.996
6	12.192V	5.046V	3.312V	4.953V	797.804	90.181%		52.4	49.46°C	115.10V
7	63.229A	6.938A	6.978A	2.229A	839.365	00.6400/	2061	F2.4	43.70°C	0.997
7	12.182V	5.047V	3.310V	4.933V	936.282	89.649%	2061	52.4	51.95°C	115.11V
•	72.369A	7.925A	7.977A	2.441A	959.236	00.0500/	2061	F0.4	44.37°C	0.997
8	12.172V	5.047V	3.307V	4.909V	1079.504	88.859%	2061	52.4	53.82°C	115.12V
•	81.963A	8.433A	8.501A	2.448A	1079.285	00.0170/	2061	F0.4	45.23°C	0.998
9	12.160V	5.043V	3.305V	4.898V	1226.225	88.017%	2061	52.4	55.72°C	115.12V
10	91.313A	8.928A	8.991A	3.084A	1199.062	07.0200/	2067	F2.4	45.52°C	0.998
10	12.149V	5.043V	3.303V	4.857V	1377.763	87.030%	2061	52.4	56.76°C	115.12V
11	101.360A	8.937A	8.999A	3.091A	1319.107	06 2222	2007	F2.4	45.58°C	0.998
11	12.129V	5.038V	3.300V	4.850V	1528.165	86.320%	2061	52.4	58.01°C	115.11V
0.1	0.099A	15.019A	15.006A	0.005A	127.176	04.00=07	1242	40.1	39.53°C	0.991
CL1	12.256V	5.074V	3.314V	5.081V	151.333	84.037%	1349	42.1	44.95°C	115.11V
	99.941A	1.003A	1.002A	1.002A	1225.824	07.0000	2005	F0.4	43.49°C	0.998
CL2	12.132V	5.030V	3.312V	4.965V	1407.386	87.099%	2061	52.4	54.91°C	115.12V

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20-80W LOAD TESTS									
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	PF/AC Volts
1	1.190A	0.492A	0.479A	0.197A	19.666	CE COCO/	722	24.2	0.852
1	12.252V	5.052V	3.329V	5.099V	29.935	65.696%	732	24.3	115.10V
2	2.408A	0.985A	0.989A	0.391A	39.751	77.1.420/	722	24.2	0.929
2	12.250V	5.050V	3.326V	5.089V	51.529	77.143%	732	24.3	115.10V
2	3.625A	1.478A	1.501A	0.591A	59.868	02.0500/	720		0.954
3	12.251V	5.049V	3.324V	5.078V	72.965	82.050%	732	24.3	115.10V
	4.835A	1.982A	1.983A	0.785A	79.802	05.1470/	750	05.1	0.975
4	12.249V	5.050V	3.324V	5.068V	93.723	85.147%	750	25.1	115.10V

RIPPLE MEASU	RIPPLE MEASUREMENTS							
Test	12V	5V	3.3V	5VSB	Pass/Fail			
10% Load	7.2 mV	4.4 mV	6.0 mV	6.8 mV	Pass			
20% Load	11.1 mV	4.6 mV	6.6 mV	9.2 mV	Pass			
30% Load	10.5 mV	5.0 mV	7.0 mV	9.7 mV	Pass			
40% Load	9.4 mV	4.9 mV	7.8 mV	11.5 mV	Pass			
50% Load	9.8 mV	4.9 mV	7.9 mV	14.0 mV	Pass			
60% Load	10.6 mV	5.7 mV	8.3 mV	16.3 mV	Pass			
70% Load	11.8 mV	5.7 mV	9.5 mV	18.7 mV	Pass			
80% Load	13.0 mV	8.1 mV	11.2 mV	21.7 mV	Pass			
90% Load	14.0 mV	8.3 mV	11.8 mV	24.4 mV	Pass			
100% Load	16.1 mV	10.5 mV	13.8 mV	28.5 mV	Pass			
110% Load	31.0 mV	17.2 mV	14.3 mV	40.1 mV	Pass			
Crossload 1	9.9 mV	5.9 mV	8.2 mV	7.7 mV	Pass			
Crossload 2	15.6 mV	7.4 mV	12.7 mV	25.8 mV	Pass			

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HOLD-UP TIME & POWER OK SIGNAL (230V)		
Hold-Up Time (ms)	23.0	
AC Loss to PWR_OK Hold Up Time (ms)	21.2	
PWR_OK Inactive to DC Loss Delay (ms)	1.9	





#### **CERTIFICATIONS**



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