

SeaSonic Prime Gold 1000W

Lab ID#: 74 Receipt Date: Jan 5, 2018 Test Date: Jan 10, 2018

Report:

Report Date: Jan 14, 2018

DUT INFORMATION			
Brand	SeaSonic		
Manufacturer (OEM)	Sea Sonic Electronics Co., Ltd.		
Series	Prime Gold		
Model Number	SSR-1000GD		
Serial Number	R1701TA101490010		
DUT Notes			

DUT SPECIFICATIONS 100-240 Rated Voltage (Vrms) Rated Current (Arms) 13-6.5 50-60 Rated Frequency (Hz) Rated Power (W) 1000 ATX12V Type 135mm Fluid Dynamic Bearing Fan Cooling (HA13525M12F-Z) Semi-Passive Operation ✓ (selectable) Cable Design **Fully Modular**

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

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+110mm+110mm)	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 (+-2°C / +- 3.6°F)
ErP Lot 3/6 Ready	1
(EU) No 617/2013 Compliance	✓

115V	
Average Efficiency	90.238%
Efficiency With 10W (≤500W) or 2% (>500W)	0.000
Average Efficiency 5VSB	79.889%
Standby Power Consumption (W)	0.0577071
Average PF	0.990
Avg Noise Output	43.91 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	S

TEST EQUIPMENT

Electronic Loads	Chroma 6314A x2 63123A x6 63102A 63101A	Chroma 63601-5 x2 Chroma 63600-2 63640-80-80 x10 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		

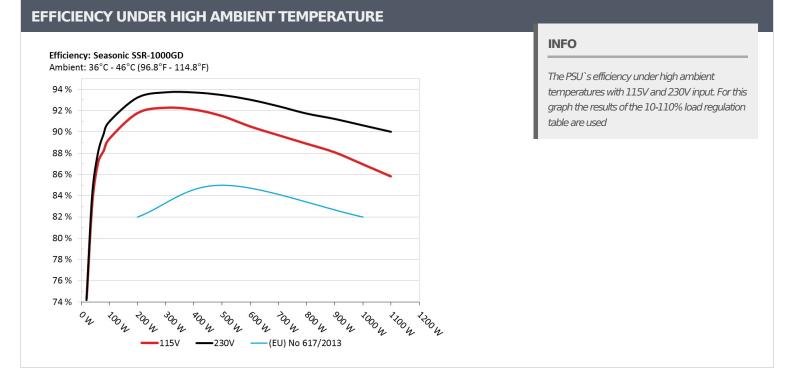
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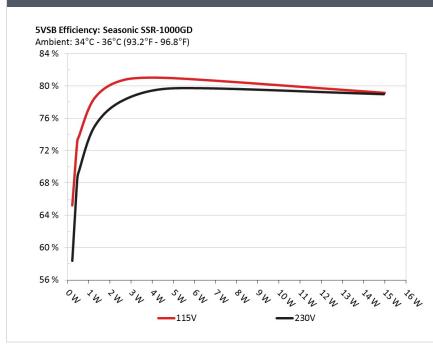
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5VSB EFFICIENCY



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	0.041A	0.212	65.231%	0.036	
	5.128V	0.325		115.09V	
2	0.087A	0.446	73.115%	0.067	
	5.126V	0.610		115.09V	
3	0.532A	2.716	80.785%	0.271	
	5.106V	3.362		115.09V	
4	3.001A	14.997	79.148%	0.477	
	4.997V	18.948		115.09V	

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)					
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts	
1	0.042A	0.213	58.356%	0.012	
	5.128V	0.365		230.24V	
2	0.087A	0.447	68.453%	0.022	
	5.126V	0.653		230.24V	
3	0.532A	2.715	78.355%	0.109	
	5.104V	3.465		230.23V	
4	3.001A	14.955	78.993%	0.340	
	4.983V	18.932		230.23V	

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Cybenetics offers the ETA and Lambda voluntary certification programs, through which the efficient and silent power supplies are promoted



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115V

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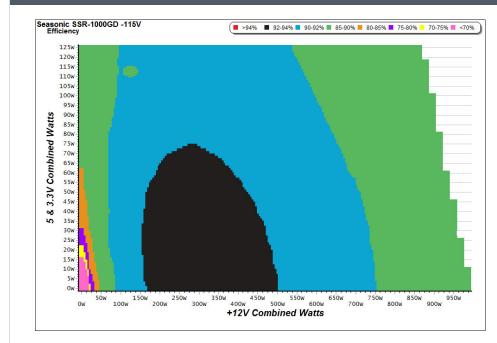
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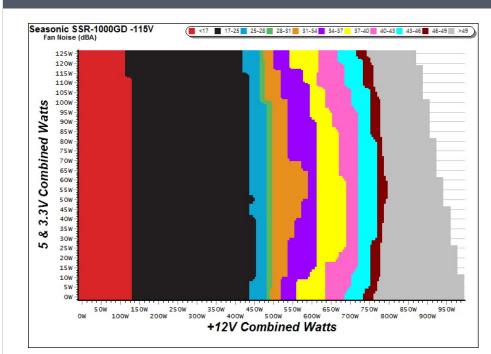
EFFICIENCY GRAPH 115V



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 115V



INFO

The PSU's noise in its entire operational range and under 30-32 °C (+-2 °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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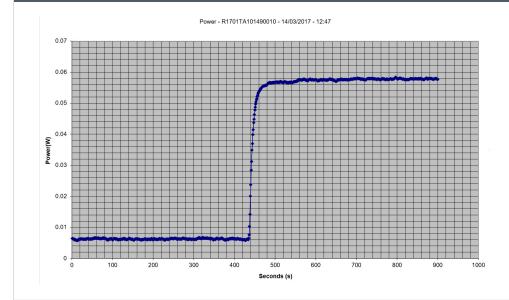
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VAMPIRE POWER -115V



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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COMMISSION REGULATION (EU) NO 617/2013 TESTING 115V

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Aris Mpitsiopoulos Lab Director

CERTIFICATIONS 115V

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