

SeaSonic Prime Platinum 1000W (#2)

Lab ID#: SS10001649

Receipt Date: Dec 5, 2018

Test Date: Apr 30, 2020

Report: 20PS1649A

Report Date: Jun 16, 2020

DUT INFORMATIO	N
Brand	SeaSonic
Manufacturer (OEM)	Seasonic
Series	Prime Platinum
Model Number	SSR-1000PD
Serial Number	R1709AA183740034
DUT Notes	retested 27-04-2020

DUT SPECIFICATI	ONS
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

POWER SPECIFICATIONS							
Rail	3.3V	5V	12V	5VSB	-12V		
May Dayor	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	In Cable Capacitors				
ATX connector 20+4 pin (610mm)	1	1	18-22AWG	No				
4+4 pin EPS12V (650mm)	2	2	18AWG	No				
6+2 pin PCle (680mm+80mm)	4	8	18AWG	No				
SATA (450mm+110mm+110mm)	3	12	18AWG	No				
4 pin Molex (450mm+120mm+120mm)	1	3	18AWG	No				
4 pin Molex (350mm+120mm)	1	2	18AWG	No				
4 pin Molex to SATA 3.3V Adapter (140mm+140mm)	1	1	18AWG	No				
AC Power Cord (1360mm) - C13 coupler	1	1	18AWG	-				

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PAGE 1/13

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RESULTS	
Temperature Range (°C/°F)	30-32 / 86-89.6 (+-2°C / +- 3.6°F)
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	1

115V	
Average Efficiency	90.616%
Efficiency With 10W (≤500W) or 2% (>500W)	74.141
Average Efficiency 5VSB	79.689%
Standby Power Consumption (W)	0.0535423
Average PF	0.990
Avg Noise Output	36.91 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	S+

230V	
Average Efficiency	92.655%
Average Efficiency 5VSB	78.853%
Standby Power Consumption (W)	0.0832728
Average PF	0.956
Avg Noise Output	37.54 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	S+

TEST EQUIPMENT	
Electronic Loads	Chroma 63601-5 x4 Chroma 63600-2 x2 63640-80-80 x20 63610-80-20 x2
AC Sources	Chroma 6530, Keysight AC6804B
Power Analyzers	N4L PPA1530 x2
Sound Analyzer	Bruel & Kjaer 2270 G4
Microphone	Bruel & Kjaer Type 4955-A
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2
Tachometer	UNI-T UT372 x2
Digital Multimeter	Keysight U1273AX, Fluke 289, Keithley 2015 - THD
UPS	CyberPower OLS3000E 3kVA x2
Transformer	3kVA x2

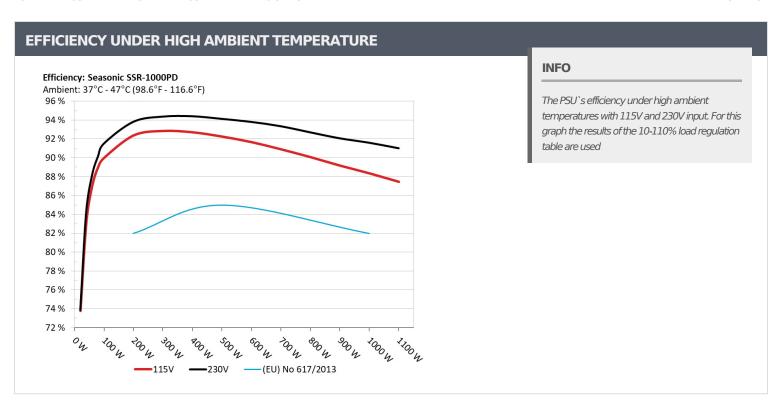
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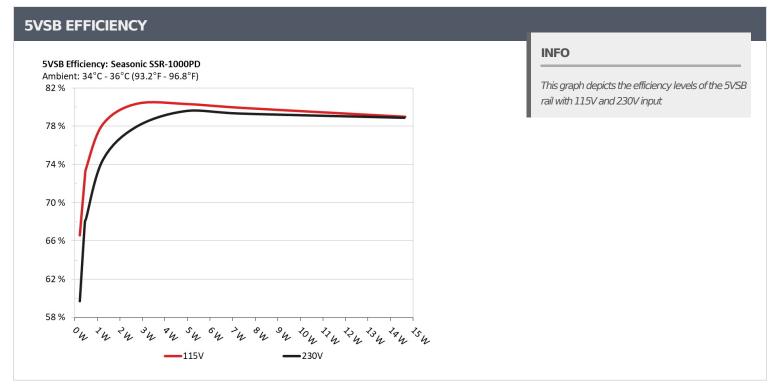
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PAGE 2/13



SeaSonic Prime Platinum 1000W (#2)





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PAGE 3/13



SeaSonic Prime Platinum 1000W (#2)

5VSB EFFIC	5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)						
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.045A	0.225	CC FC00/	0.036			
1	5.001V	0.338	66.568%	115.13V			
	0.090A	0.450	70.000/	0.065			
2	4.999V	0.619	72.698%	115.13V			
2	0.550A	2.740	00.22007	0.271			
3	4.980V	3.411	80.328%	115.13V			
	1.000A	4.962	00.2040/	0.367			
4	4.961V	6.179	80.304%	115.12V			
_	1.500A	7.410		0.422			
5	4.939V	9.274	79.901%	115.13V			
	3.000A	14.647	70.0000	0.494			
6	4.882V	18.548	78.968%	115.13V			

5VSB EFFI	5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)						
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.045A	0.225	E0 6020/	0.012			
1	5.001V	0.377	59.682%	230.27V			
2	0.090A	0.450	C7 0700/	0.021			
2	4.998V	0.662	67.976%	230.27V			
3	0.550A	2.739	77.0450/	0.105			
	4.978V	3.514	77.945%	230.27V			
4	1.000A	4.961	70 5020/	0.172			
4	4.960V	6.233	79.592%	230.27V			
_	1.500A	7.407	70.21.20/	0.232			
5	4.937V	9.339	79.313%	230.27V			
	3.000A	14.615	70.0760/	0.339			
6	4.871V	18.529	/8.8/6%	230.27V			
6			78.876%				

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PAGE 4/13

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115V

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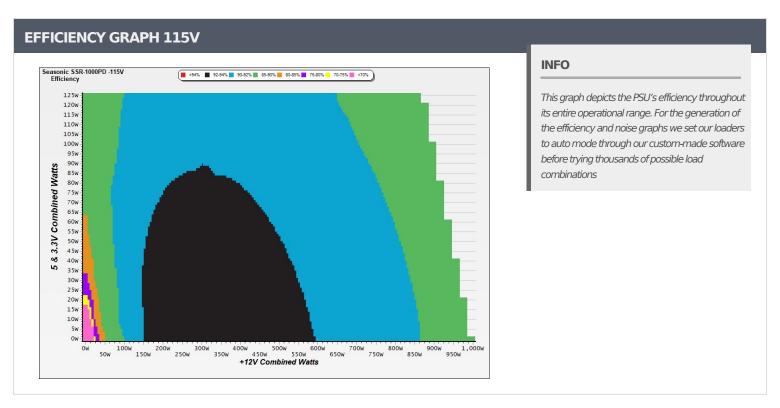
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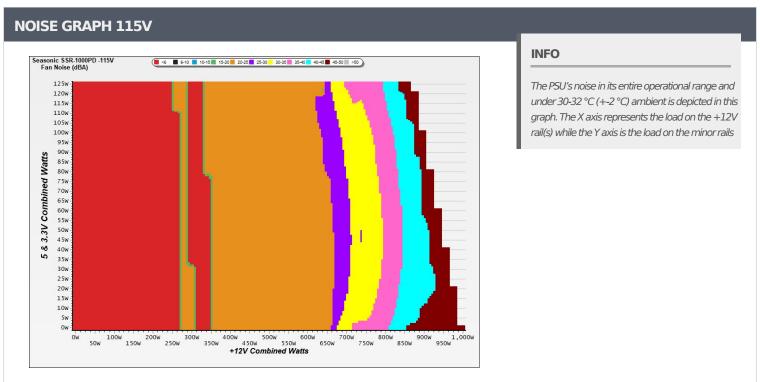
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PAGE 5/13



SeaSonic Prime Platinum 1000W (#2)





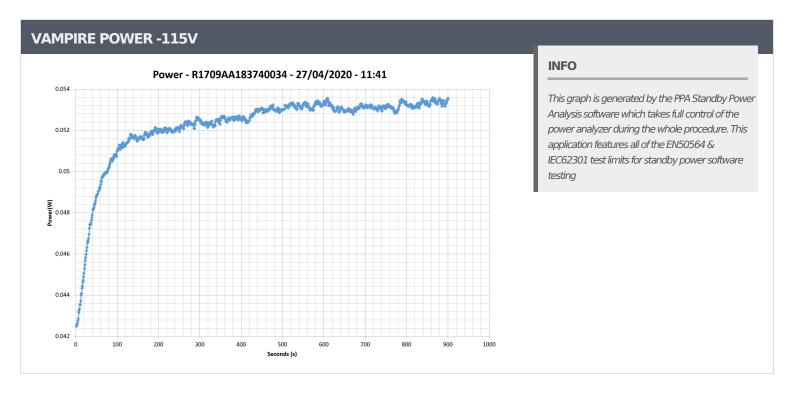
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PAGE 6/13



SeaSonic Prime Platinum 1000W (#2)



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PAGE 7/13

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Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
2	6.397A	1.990A	1.977A	0.999A	100.008	00.0050/	0		43.96°C	0.976
1	12.257V	5.025V	3.338V	5.006V	111.139	89.985% 0	<6.0	40.01°C	115.12V	
2	13.802A	2.986A	2.970A	1.200A	200.045	92.369% 0		6.0	44.71°C	0.985
2	12.255V	5.022V	3.335V	5.001V	216.571		<6.0	40.40°C	115.12V	
-	36.694A	4.988A	4.957A	1.806A	499.868	02.2510/	600	24.6	42.20°C	0.994
5	12.246V	5.014V	3.329V	4.984V	541.857	92.251%	608	24.6	48.45°C	115.12V
10	74.437A	9.003A	8.961A	3.031A	1000.014	88.350%	2010	F2.6	45.31°C	0.998
10	12.229V	5.000V	3.315V	4.950V	1131.883		2010	52.6	55.71°C	115.10V

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PAGE 8/13

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SeaSonic Prime Platinum 1000W (#2)

230V

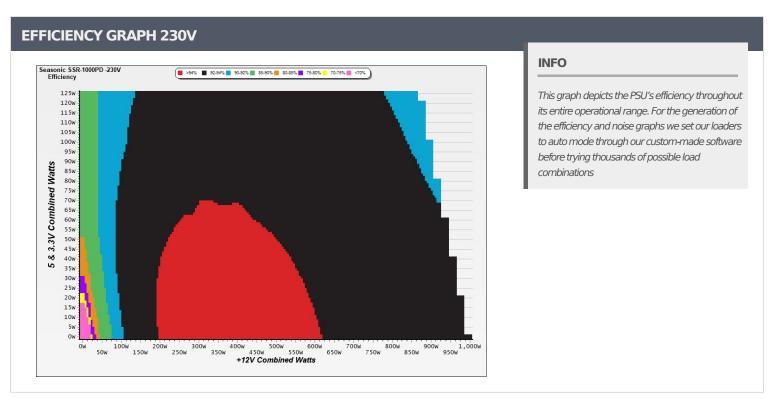
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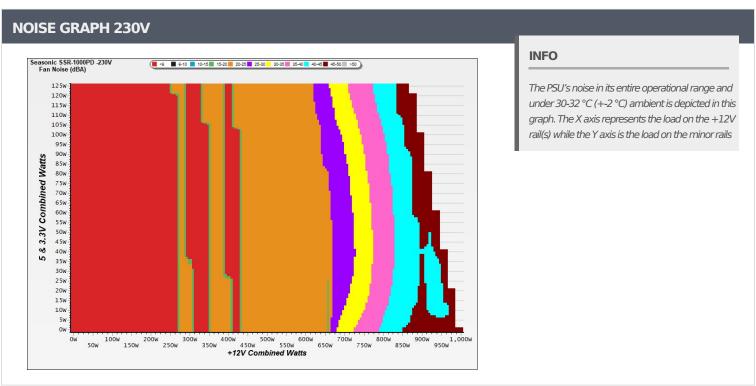
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PAGE 9/13



SeaSonic Prime Platinum 1000W (#2)





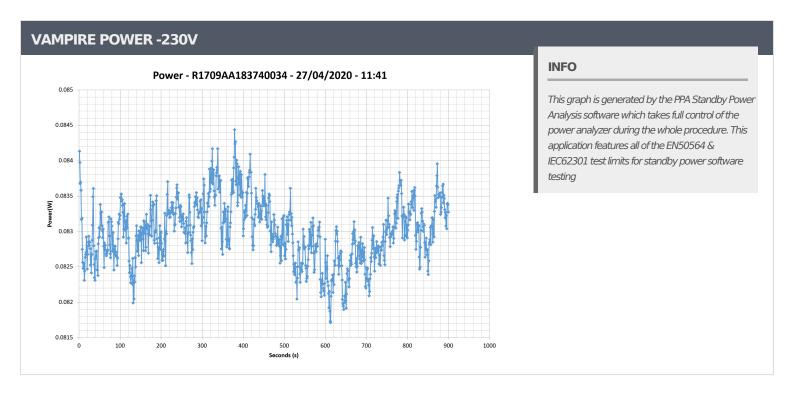
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PAGE 10/13



SeaSonic Prime Platinum 1000W (#2)



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PAGE 11/13



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COMMISSION REGULATION (EU) NO 617/2013 TESTING 230V												
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts		
1	6.398A	1.990A	1.976A	0.999A	100.005	91.508%			0		44.45°C	0.834
	12.255V	5.025V	3.338V	5.006V	109.286		0	<6.0	40.15°C	230.24V		
2	13.804A	2.987A	2.968A	1.200A	200.038	93.818%		<6.0	45.83°C	0.926		
2	12.253V	5.021V	3.335V	5.001V	213.219		0		40.76°C	230.25V		
_	36.692A	4.988A	4.960A	1.806A	499.848		610	05.1	42.38°C	0.978		
5	12.246V	5.014V	3.328V	4.984V	531.033	94.127%	610	25.1	49.56°C	230.25V		
10	74.427A	9.002A	8.963A	3.031A	999.980		2011	F0.6	45.75°C	0.989		
10	12.230V	5.001V	3.315V	4.951V	1091.744	91.595%	2011	52.6	56.18°C	230.26V		

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PAGE 12/13

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CERTIFICATIONS 115V







Aris Mpitsiopoulos

Lab Director

CERTIFICATIONS 230V





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PAGE 13/13