

Anex Seasonic SSR-750PD

Lab ID#: 206

Receipt Date:
Test Date: -

Report: 20PS206A

Report Date: Oct 31, 2000

DUT INFORMATION					
Brand	Seasonic				
Manufacturer (OEM)	Seasonic				
Series	Prime Platinum				
Model Number	SSR-750PD				
Serial Number	R1701TA101420009				
DUT Notes					

DUT SPECIFICATIONS						
Rated Voltage (Vrms)	100-240					
Rated Current (Arms)	9.5-4.5					
Rated Frequency (Hz)	50-60					
Rated Power (W)	750					
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		
Mov. Dower	Amps	20	20 20		2.5	0.3	
Max. Power	Watts	100	100		12.5	3.6	
Total Max. Power (W)		750	750				

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)	2	4	18AWG			
SATA (460mm+110mm+110mm+110mm)	2	8	18AWG			
4 pin Molex (460mm+130mm+130mm)	1	3	18AWG			
FDD Adapter (+110mm)	1	1	22AWG			

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RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
Average Efficiency	90.770
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	79.711
Standby Power Consumption (W) -115V	0.0563214
Standby Power Consumption (W) -230V	0.0915038
Average PF	0.989
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	/
Avg Noise Output	35.18
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 4955-A, Bruel & Kjaer Type 4189						
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2						

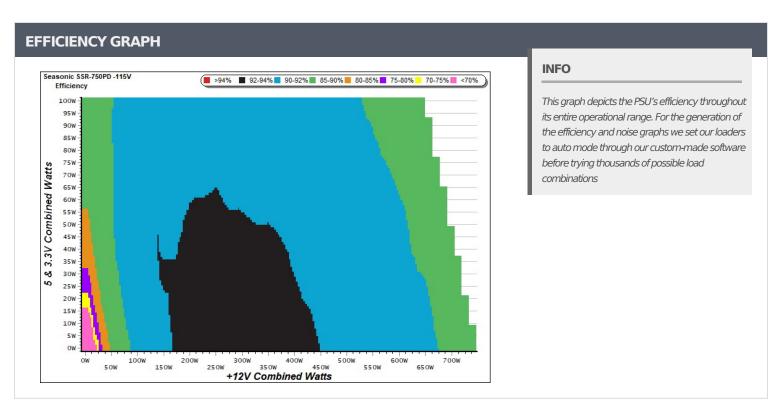
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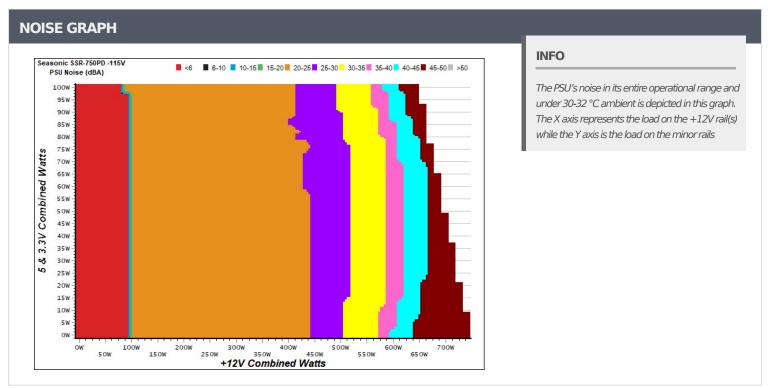
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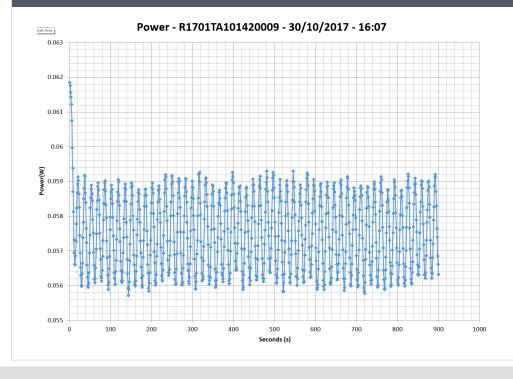
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)					5VSB	EFFICIEN	CY -230V (EF	RP LOT 3/6 &	CEC)
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts	Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.231	CC E710/	0.031	1	0.041A	0.212	62.4720/	0.010
1	5.117V	0.347	66.571%	115.38V	1	5.108V	0.334	63.473%	230.40V
	0.090A	0.461	72.0200/	0.055		0.087A	0.444	71.2600/	0.019
2	5.115V	0.633	72.828%	115.39V	2	5.107V	0.623	71.268%	230.40V
	0.550A	2.804	00.1600/	0.247	3	0.542A	2.760	76.731%	0.102
3	5.096V	3.498	80.160%	115.37V	3	5.096V	3.597		230.43V
	1.000A	5.078	00.0720/	0.348		1.002A	5.093	70.2040/	0.172
4	5.077V	6.279	80.873%	115.37V	4	5.085V	6.505	78.294%	230.43V
_	1.500A	7.582	70.0000/	0.410		1.501A	7.614	70 2010/	0.232
5	5.054V	9.478	79.996%	115.37V	5	5.071V	9.724	78.301%	230.42V
	2.500A	12.537	70.6510/	0.466	6	2.501A	12.620	70.1000/	0.314
6	5.014V	15.740	79.651%	115.36V	6	5.046V	16.141	78.186%	230.41V

VAMPIRE POWER -115V



INFO

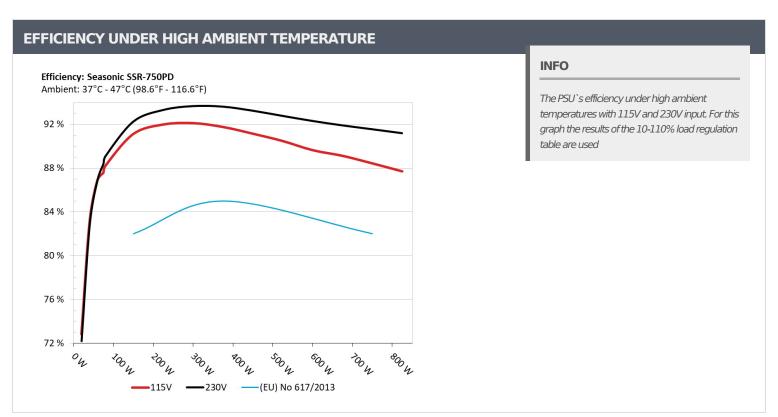
This graph is generated by the PPA Standby Power Analysis software which takes full control of the power analyzer during the whole procedure. This application features all of the EN50564 & IEC62301 test limits for standby power software testing

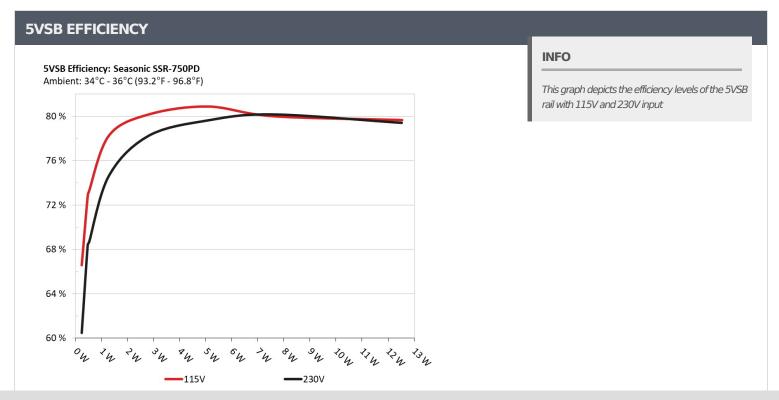
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10-110% LOAD TESTS										
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
_	4.348A	1.986A	1.981A	0.987A	74.453	07.700/			37.95°C	0.962
1	12.158V	5.034V	3.327V	5.068V	85.003	87.589%	660	23.8	42.15°C	115.27V
2	9.744A	2.980A	2.976A	1.188A	149.358	01.1200/	660	22.0	37.99°C	0.985
2	12.157V	5.033V	3.326V	5.053V	163.896	91.130%	660	23.8	42.85°C	115.16V
_	15.536A	3.479A	3.456A	1.390A	224.870	02.0040/	605	25.4	38.66°C	0.990
3	12.157V	5.032V	3.325V	5.037V	244.413	92.004%	685	25.4	43.87°C	115.14V
	21.260A	3.976A	3.972A	1.593A	299.665	02.1240/	010	20.4	38.80°C	0.994
4	12.157V	5.032V	3.323V	5.023V	325.248	92.134%	910	28.4	44.44°C	115.03V
_	26.658A	4.971A	4.967A	1.798A	374.593	01.7020/	1100	240	39.30°C	0.992
5	12.157V	5.031V	3.322V	5.007V	408.132	91.782%	1108	34.0	45.23°C	114.96V
	32.058A	5.966A	5.963A	2.004A	449.506	01.1710/	1650	46.1	40.13°C	0.993
6	12.156V	5.030V	3.320V	4.991V	493.037	91.171%			46.51°C	114.94V
7	37.489A	6.962A	6.962A	2.212A	524.842	00.4050/	1808	1808 48.6	40.99°C	0.994
7	12.156V	5.029V	3.319V	4.976V	579.961	90.496%			47.63°C	114.83V
•	42.913A	7.957A	7.958A	2.420A	600.152	20.5500/	2122	F1.0	42.34°C	0.995
8	12.158V	5.028V	3.318V	4.960V	669.370	89.659%	2123	51.2	49.22°C	114.71V
0	48.708A	8.456A	8.442A	2.423A	674.705	00.1420/	2122	F1.0	43.33°C	0.996
9	12.158V	5.027V	3.317V	4.954V	756.882	89.143%	2123	51.2	50.64°C	114.69V
10	54.497A	8.954A	8.957A	2.530A	749.846	00.4530/	2122	F1.2	44.71°C	0.996
10	12.159V	5.027V	3.316V	4.942V	847.739	88.452%	2123	51.2	52.63°C	114.57V
11	60.668A	8.954A	8.960A	2.534A	825.070	07.71.00/	2122	F1.2	47.20°C	0.996
11	12.162V	5.027V	3.316V	4.934V	940.591	87.718%	2123	51.2	55.38°C	114.45V
Cl 1	0.741A	12.003A	12.002A	0.000A	109.355	05.6600/	2115	50.7	43.77°C	0.980
CL1	12.164V	5.033V	3.327V	5.097V	127.649	85.669%	2115	50.7	49.21°C	115.22V
CI 2	62.018A	1.002A	1.000A	1.000A	767.327	00.7400/	2122	F1.2	44.28°C	0.996
CL2	12.157V	5.031V	3.318V	5.016V	864.692	88.740%	2123	51.2	51.08°C	114.56V

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20-80W LOAD TESTS									
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts
-	1.182A	0.495A	0.480A	0.196A	19.454	72.0040/		.6.0	0.798
1	12.151V	5.037V	3.329V	5.107V	26.721	72.804%	0	<6.0	115.35V
2	2.437A	0.992A	0.992A	0.393A	39.917	02.0500/		<6.0	0.907
2	12.153V	5.036V	3.329V	5.096V	48.059	83.058%	0		115.33V
2	3.621A	1.488A	1.472A	0.590A		.6.0	0.949		
3	12.156V	5.034V	3.327V	5.086V	68.381	86.875%	0	<6.0	115.30V
	4.870A	1.985A	1.982A	0.788A	79.791	00.0000/	660	22.0	0.966
4	12.157V	5.034V	3.327V	5.076V	90.437	88.228%	660	23.8	115.27V

RIPPLE MEASUREMENTS								
Test	12V	5V	3.3V	5VSB	Pass/Fail			
10% Load	6.6 mV	3.4 mV	4.0 mV	6.8 mV	Pass			
20% Load	10.0 mV	5.1 mV	6.0 mV	7.1 mV	Pass			
30% Load	13.1 mV	5.1 mV	6.2 mV	7.3 mV	Pass			
40% Load	16.1 mV	5.1 mV	6.2 mV	8.4 mV	Pass			
50% Load	15.3 mV	4.5 mV	5.2 mV	8.8 mV	Pass			
60% Load	11.4 mV	4.7 mV	5.7 mV	9.4 mV	Pass			
70% Load	11.6 mV	5.3 mV	6.2 mV	9.4 mV	Pass			
80% Load	12.9 mV	5.4 mV	7.9 mV	12.0 mV	Pass			
90% Load	14.2 mV	5.7 mV	8.3 mV	13.6 mV	Pass			
100% Load	18.6 mV	5.9 mV	8.5 mV	12.4 mV	Pass			
110% Load	24.3 mV	5.9 mV	8.8 mV	13.2 mV	Pass			
Crossload 1	9.6 mV	7.4 mV	9.8 mV	7.2 mV	Pass			
Crossload 2	19.1 mV	3.0 mV	5.2 mV	11.4 mV	Pass			

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HOLD-UP TIME & POWER OK SIGNAL (230V)				
Hold-Up Time (ms)	22.70			
AC Loss to PWR_OK Hold Up Time (ms)	18.20			
PWR_OK Inactive to DC Loss Delay (ms)	4.50			







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