

Report:

Anex Seasonic SSR-550PX

Lab ID#: 246
Receipt Date: -

DUT Notes

Test Date: - Report Date: Dec 13, 2018

Brand Seasonic

Manufacturer (OEM) Seasonic

Series FOCUS Plus Platinum

Model Number SSR-550PX

Serial Number R1707AA170390277

Retested on 04/10/2018

DUT SPECIFICATIONS					
Rated Voltage (Vrms)	100-240				
Rated Current (Arms)	8-4				
Rated Frequency (Hz)	50-60				
Rated Power (W)	550				
Туре	ATX12V				
Cooling	120mm Fluid Dynamic Bearing Fan (HA1225M12F-Z)				
Semi-Passive Operation	✓ (selectable)				
Cable Design	Fully Modular				

POWER SPECIFICATIONS							
Rail		3.3V	5V	12V	5VSB	-12V	
May Dayyar	Amps	20	20 20		3	0.3	
Max. Power Watts		100	100		15	3.6	
Total Max. Power (W)		550	550				

CABLES AND CONNECTORS							
Modular Cables							
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors			
ATX connector 20+4 pin (600mm)	1	1	18-22AWG	Yes			
4+4 pin EPS12V (650mm)	1	1	18AWG	Yes			
6+2 pin PCle (680mm+80mm)	1	2	18AWG	Yes			
SATA (450mm+110mm+110mm+110mm)	1	4	18AWG	No			
SATA (450mm+110mm)	1	2	18AWG	No			
4 pin Molex (450mm+120mm+120mm)	1	3	18AWG	No			
FDD Adapter (+105mm)	1	1	22AWG	No			
AC Power Cord (1370mm) - C13 coupler	1	1	18AWG	No			

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RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
Average Efficiency	91.674
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	77.003
Standby Power Consumption (W) -115V	0.0495356
Standby Power Consumption (W) -230V	0.0825415
Average PF	0.935
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	/
Avg Noise Output	14.17
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A++

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	Chroma 6530, Chroma 61604				
Power Analyzers	N4L PPA1530, N4L PPA5530	N4L PPA1530, N4L PPA5530				
Oscilloscopes	Picoscope 4444 & 3424, Keysight DSC	Picoscope 4444 & 3424, Keysight DSOX3024A, Rigol DS2072A				
Voltmeter	Keithley 2015 THD 6.5 Digit	Keithley 2015 THD 6.5 Digit				
Sound Analyzer	Bruel & Kjaer 2250-L G4	Bruel & Kjaer 2250-L G4				
Microphone	Bruel & Kjaer Type 4955-A, Bruel & Kja	Bruel & Kjaer Type 4955-A, Bruel & Kjaer Type 4189				
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2					

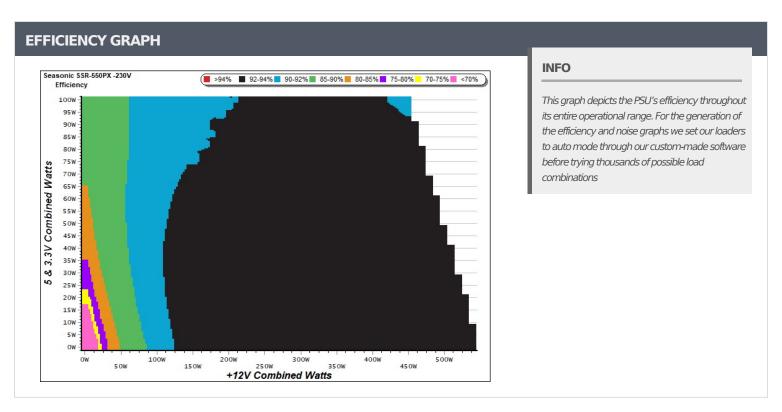
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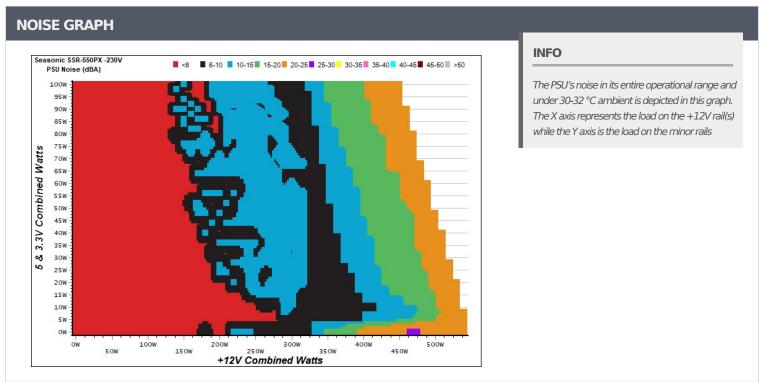
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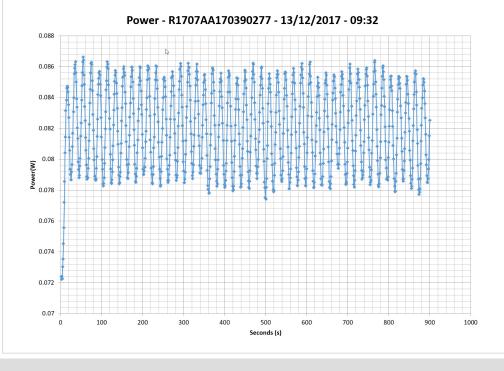


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5VSB	5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)					EFFICIEN	CY -230V (E	RP LOT 3/6 &	CEC)
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts	Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.231	C0 2420/	0.034	1	0.045A	0.231	CO 7000/	0.013
1	5.136V	0.338	68.343%	115.27V	1	5.136V	0.380	60.789%	230.83V
	0.090A	0.462	72.4500/	0.062	2	0.090A	0.462	60.0410/	0.023
2	5.135V	0.629	73.450%	115.27V	2	5.135V	0.679	68.041%	230.82V
	0.550A	2.818	70 22 40/	0.273		0.550A	2.818	76.7640/	0.117
3	5.124V	3.602	78.234%	115.26V	3	5.124V	3.671	76.764%	230.71V
	1.000A	5.113	70.1000/	0.367		1.000A	5.114	77.7700/	0.191
4	5.114V	6.539	78.192%	115.25V	4	5.114V	6.575	77.779%	230.76V
_	1.500A	7.653	70.1000/	0.418	_	1.500A	7.654	70.41.40/	0.251
5	5.102V	9.799	78.100%	115.25V	5	5.103V	9.761	78.414%	230.81V
	3.000A	15.167	76,0000/	0.479	6	3.000A	15.203	77.7520/	0.351
6	5.056V	19.726	76.888%	115.24V	6	5.068V	19.553	77.753%	230.81V

VAMPIRE POWER -230V



INFO

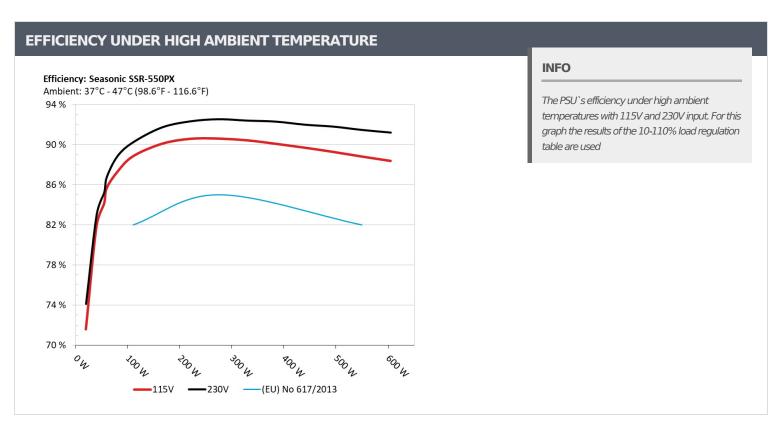
This graph is generated by the PPA Standby Power Analysis software which takes full control of the power analyzer during the whole procedure. This application features all of the EN50564 & IEC62301 test limits for standby power software testing

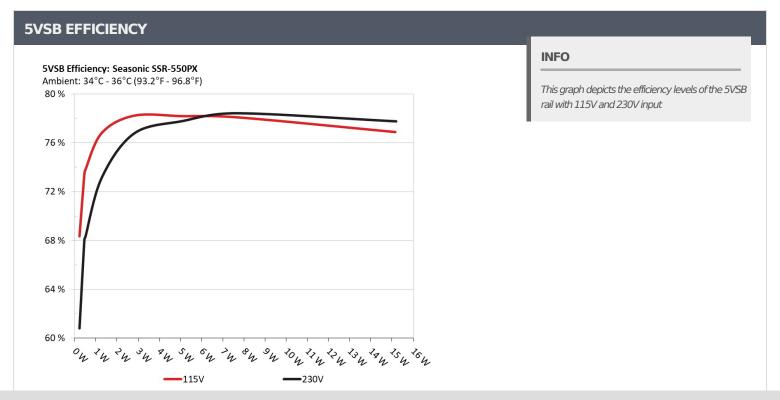
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							_			
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
1	2.708A	1.982A	1.984A	0.979A	54.436	05.2220/		-6.0	48.02°C	0.682
1	12.129V	5.044V	3.323V	5.107V	63.868	85.232%	0	<6.0	38.02°C	230.81\
2	6.466A	2.973A	2.979A	1.177A	109.320	00 2050/	450		38.19°C	0.861
2	12.130V	5.044V	3.321V	5.096V	121.191	90.205%	450	9.9	48.28°C	230.83\
2	10.619A	3.471A	3.464A	1.376A	164.820	01 (050/	405	0.2	38.85°C	0.925
3	12.131V	5.043V	3.319V	5.086V	179.749	91.695%	485	9.3	49.09°C	230.84\
4	14.709A	3.965A	3.979A	1.576A	219.626	02.21.00/	445		39.08°C	0.951
4	12.131V	5.042V	3.317V	5.077V	237.922	92.310%	445	9.6	48.79°C	230.80
_	18.466A	4.962A	4.976A	1.777A	274.536	02.5210/	465		39.41°C	0.965
5	12.132V	5.040V	3.315V	5.066V	296.727	92.521%	465	9.8	49.56°C	230.75
_	22.224A	5.954A	5.976A	1.979A	329.448	00.0000	F65	141	40.43°C	0.973
6	12.133V	5.039V	3.313V	5.055V	356.598	92.386%	565	14.1	49.12°C	230.70
-	26.015A	6.949A	6.977A	2.181A	384.753	02.2040/	000	21.0	41.31°C	0.978
7	12.133V	5.038V	3.311V	5.045V	416.923	92.284%	900	21.8	48.04°C	230.66
0	29.806A	7.944A	7.978A	2.385A	440.053	01.0700/	1.405	22.0	42.42°C	0.980
8	12.133V	5.037V	3.309V	5.033V	478.435	91.978%	1495	32.0	48.10°C	230.72\
•	33.963A	8.441A	8.465A	2.387A	494.578	01.7000/	1700	20.0	43.27°C	0.983
9	12.133V	5.036V	3.307V	5.028V	538.823	91.789%	1780	38.8	48.14°C	230.68\
10	37.920A	8.939A	8.984A	2.996A	549.796	01.4570/	2005	41.1	45.23°C	0.985
10	12.133V	5.035V	3.306V	5.008V	601.153	91.457%	2005	41.1	49.71°C	230.64
11	42.466A	8.942A	8.986A	2.999A	605.005	01.1050/	2025	41.2	46.18°C	0.986
11	12.134V	5.035V	3.305V	5.002V	663.419	91.195%	2025	41.2	50.94°C	230.59
CL 1	0.735A	12.002A	11.998A	0.000A	109.166	07.4560/	445	0.6	43.37°C	0.867
CL1	12.130V	5.041V	3.313V	5.111V	124.824	87.456%	445	9.6	51.93°C	230.97
CI 2	45.003A	1.002A	0.999A	1.000A	559.535	02.12224	2005	41.7	44.87°C	0.985
CL2	12.135V	5.039V	3.314V	5.064V	607.378	92.123%	2005	41.1	49.35°C	230.64\

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20-80	W LOAD	TESTS							
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts
1	1.190A	0.494A	0.480A	0.195A	19.526	74.1000/		.60	0.442
1	12.130V	5.050V	3.328V	5.129V	26.338	74.136%	0	<6.0	230.84V
2	2.441A	0.990A	0.993A	0.391A	39.905	02.01.40/		.60	0.584
2	12.129V	5.045V	3.324V	5.122V	48.070	83.014%	0	<6.0	230.83V
2	3.630A	1.486A	1.474A	0.587A	59.429	06.7720/			0.705
3	12.130V	5.044V	3.323V	5.116V	68.488	86.773%	0	<6.0	230.81V
4	4.882A	1.981A	1.986A	0.783A	79.809	00.0200/			0.793
4	12.130V	5.044V	3.322V	5.109V	89.837	88.838%	0	<6.0	230.80V

RIPPLE MEASUREMENTS								
Test	12V	5V	3.3V	5VSB	Pass/Fail			
10% Load	6.0 mV	6.0 mV	4.6 mV	3.3 mV	Pass			
20% Load	9.6 mV	6.5 mV	5.3 mV	3.4 mV	Pass			
30% Load	11.9 mV	7.1 mV	5.7 mV	3.5 mV	Pass			
40% Load	14.1 mV	7.4 mV	6.2 mV	3.8 mV	Pass			
50% Load	16.0 mV	8.8 mV	6.9 mV	3.9 mV	Pass			
60% Load	17.5 mV	9.3 mV	7.4 mV	4.2 mV	Pass			
70% Load	19.3 mV	10.1 mV	8.1 mV	4.2 mV	Pass			
80% Load	20.3 mV	11.0 mV	9.6 mV	4.8 mV	Pass			
90% Load	22.0 mV	11.5 mV	10.1 mV	5.0 mV	Pass			
100% Load	22.9 mV	12.1 mV	11.0 mV	6.0 mV	Pass			
110% Load	24.8 mV	12.8 mV	11.4 mV	6.1 mV	Pass			
Crossload 1	9.9 mV	11.4 mV	10.0 mV	4.0 mV	Pass			
Crossload 2	23.1 mV	7.9 mV	6.2 mV	4.4 mV	Pass			

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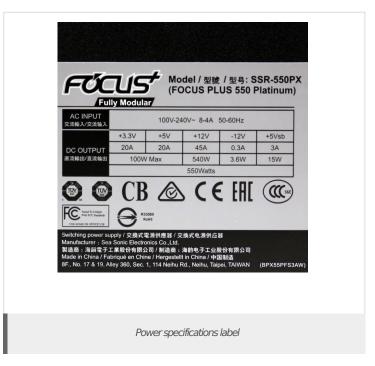
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HOLD-UP TIME & POWER OK SIGNAL (230V)				
Hold-Up Time (ms)	24.20			
AC Loss to PWR_OK Hold Up Time (ms)	19.50			
PWR_OK Inactive to DC Loss Delay (ms)	4.70			







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