

Anex Seasonic SSR-750TD

Lab ID#: 48

Receipt Date: -

Report Date: Jan 22, 2018

Report:

Test Date: -

DUT INFORMATION				
Brand	Seasonic			
Manufacturer (OEM)	Seasonic			
Series	Prime Titanium			
Model Number	SSR-750TD			
Serial Number	R1606TA106430003			
DUT Notes	Retested on 4/7/17			

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 (HA13525M12F-Z)				
Semi-Passive Operation	✓ (selectable)				
Cable Design	Fully Modular				

POWER SPECIFICATIONS							
Rail		3.3V	5V	12V	5VSB	-12V	
	Amps	20	20 20		3	0.3	
Max. Power Watts		100	100		15	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 (620mm)	1	1	18-22AWG		
4+4 pin EPS12V (650mm)	2	2	18AWG		
6+2 pin PCle (680mm+80mm)	4	4	18AWG		
SATA (450mm+110mm+110mm+110mm)	2	8	18AWG		
SATA (350mm+110mm)	1	2	18AWG		
4 pin Molex (350mm+120mm)	1	2	18AWG		
4 pin Molex (450mm+120mm+120mm)	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	92.387
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	79.430
Standby Power Consumption (W) -115V	0.0575952
Standby Power Consumption (W) -230V	0.0995988
Average PF	0.989
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	/
Avg Noise Output	16.89
Efficiency Rating (ETA)	TITANIUM
Noise Rating (LAMBDA)	A+

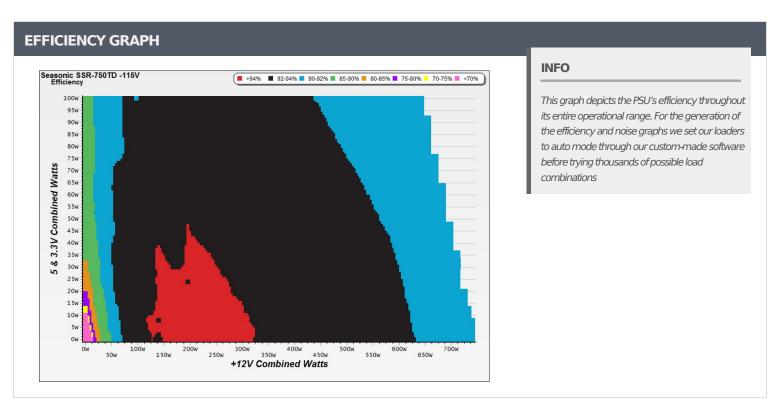
TEST EQUIPMENT						
Electronic Loads	Chroma 6314A x2 Chroma 63601-5 x2 63123A x6 Chroma 63600-2 63102A 63640-80-80 x10 63101A 63610-80-20					
AC Sources	Chroma 6530, Chroma 61604					
Power Analyzers	N4L PPA1530, N4L PPA5530					
Oscilloscopes	Picoscope 4444 & 3424, Keysight DSOX3024A, Rigol DS2072A					
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					

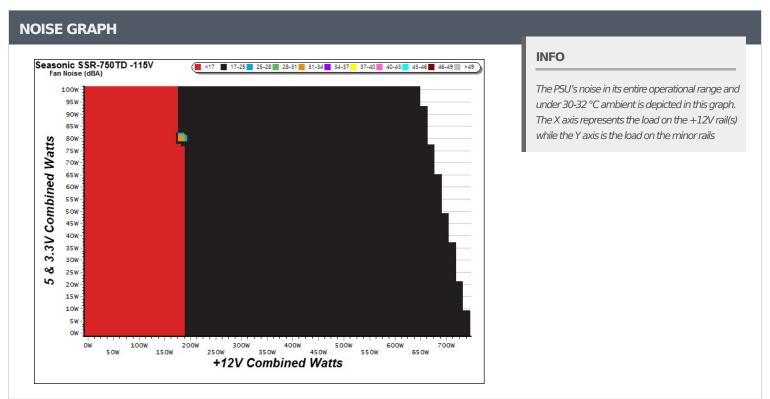
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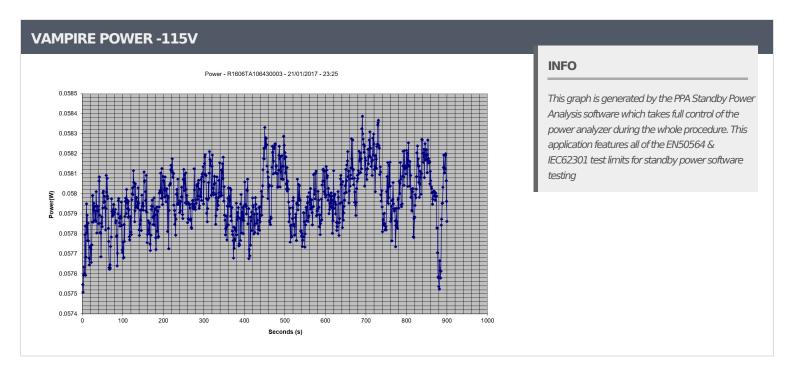
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)						
Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts		
1	0.047A	0.236	CC 4700/	0.040		
1	5.013V	0.355	66.479%	115.10V		
2	0.092A	0.461	72.0200/	0.070		
	5.011V	0.633	72.828%	115.10V		
3	0.552A	2.756	00 4440/	0.273		
3	4.992V	3.426	80.444%	115.09V		
4	3.002A	14.680	70.0200/	0.476		
4	4.890V	18.573	79.039%	115.08V		

5VSB	5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)						
Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.047A	0.236	E0 7060/	0.014			
1	5.013V	0.402	58.706%	230.24V			
2	0.092A	0.461	66.618%	0.024			
	5.011V	0.692	00.018%	230.23V			
3	0.552A	2.754	77.0100/	0.112			
3	4.990V	3.539	77.819%	230.24V			
4	3.002A	14.659	70.4450/	0.335			
4	4.883V	18.687	78.445%	230.24V			

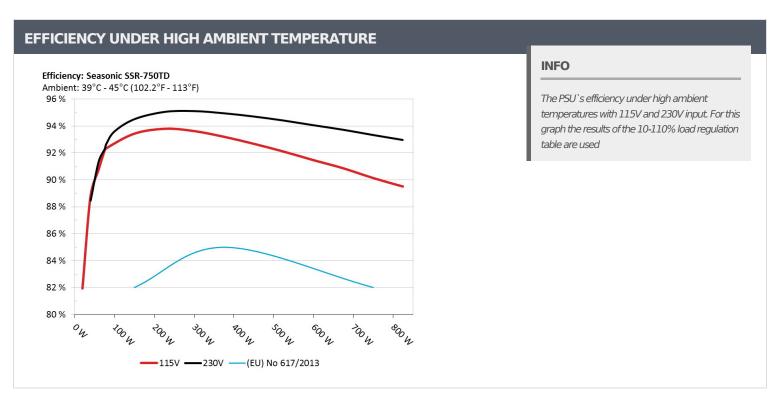


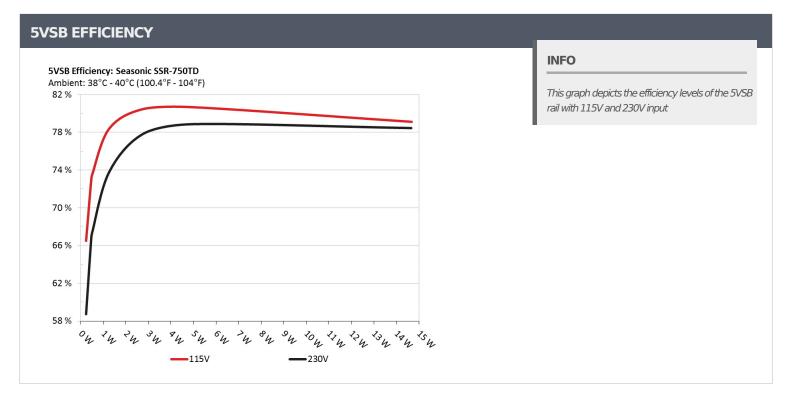
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10-1	.10% LOA	D TESTS									
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	Temps (In/Out)	PF/AC Volts	
_	4.367A	1.973A	1.973A	0.991A	74.748				43.08°C	0.966	
1	12.178V	5.057V	3.344V	5.036V	81.127	92.137%	0	0	38.25°C	115.05V	
2	9.771A	2.958A	2.963A	1.191A	149.760	02.4410/			43.56°C	0.986	
2	12.171V	5.053V	3.340V	5.032V	160.272	93.441%	0	0	38.57°C	115.05V	
_	15.522A	3.466A	3.474A	1.390A	224.873	02.0070/	100	17.0	37.91°C	0.992	
3	12.163V	5.050V	3.336V	5.026V	242.302	92.807%	490	17.8	39.74°C	115.05V	
	21.271A	3.963A	3.957A	1.593A	299.735	02.62604	100	17.0	38.26°C	0.994	
4	12.155V	5.047V	3.333V	5.019V	320.107	93.636%	490	17.8	40.43°C	115.04V	
_	26.696A	4.959A	4.954A	1.794A	374.770	02.21.20/			39.65°C	0.992	
5	12.147V	5.043V	3.329V	5.013V	402.058	93.213%	490	17.8	42.27°C	115.02V	
-	32.116A	5.952A	5.953A	1.995A	449.660	00.5000/	92.690% 510 18.2		100	40.32°C	0.992
6	12.140V	5.039V	3.324V	5.008V	485.122	92.690%		18.2	43.22°C	115.03V	
-	37.545A	6.953A	6.954A	2.197A	524.597	02.11.40/	100	16.6	41.34°C	0.993	
7	12.132V	5.036V	3.321V	5.003V	569.508	92.114%	400	16.6	44.53°C	115.02V	
	42.986A	7.947A	7.958A	2.402A	599.604	01.4750/	F10	100	42.53°C	0.994	
8	12.125V	5.033V	3.317V	4.998V	655.484	91.475%	510	18.2	46.21°C	115.04V	
0	48.867A	8.456A	8.475A	2.401A	674.680	00.0000/	F70	20.6	44.21°C	0.995	
9	12.116V	5.029V	3.314V	4.996V	742.477	90.869%	570	20.6	48.45°C	115.07V	
10	54.494A	8.959A	8.968A	3.012A	749.538	00.1460/	670	21.6	44.60°C	0.996	
10	12.108V	5.025V	3.312V	4.981V	831.469	90.146%	670	21.6	49.15°C	115.08V	
11	60.719A	8.965A	8.978A	3.011A	824.347	00 E1 40/	700	24.0	44.85°C	0.996	
11	12.099V	5.021V	3.309V	4.977V	920.915	89.514%	780	24.8	49.85°C	115.09V	
Cl 1	0.099A	12.012A	12.006A	0.004A	101.893	00.6300/	F10	10.2	43.93°C	0.979	
CL1	12.190V	5.049V	3.333V	5.092V	114.964	88.630%	510	18.2	47.87°C	115.10V	
CI 2	62.453A	1.003A	1.002A	1.002A	768.774	00.4000/	700	22.7	44.76°C	0.996	
CL2	12.095V	5.034V	3.324V	5.015V	850.336	90.408%	700	22.7	49.37°C	115.07V	

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20-80	W LOAD	TESTS							
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	PF/AC Volts
1	1.200A	0.491A	0.477A	0.195A	19.683	01.0240/			0.796
1	12.179V	5.060V	3.348V	5.055V	24.023	81.934%	0	0	115.03V
2	2.421A	0.978A	0.985A	0.396A	39.723	00.7000/		0	0.910
2	12.178V	5.058V	3.345V	5.049V	44.749	88.768%	0		115.03V
2	3.647A	1.477A	1.494A	0.591A	59.861	00.73.40/			0.950
3	12.178V	5.057V	3.345V	5.045V	65.974	90.734%	0	0	115.04V
4	4.861A	1.974A	1.971A	0.791A	79.747	02.2004			0.966
4	12.177V	5.055V	3.343V	5.041V	86.344	92.360%	0	0	115.04V

RIPPLE MEASUREMENTS							
Test	12V	5V	3.3V	5VSB	Pass/Fail		
10% Load	7.5 mV	3.7 mV	3.8 mV	3.5 mV	Pass		
20% Load	9.5 mV	3.9 mV	4.1 mV	3.5 mV	Pass		
30% Load	10.8 mV	4.4 mV	4.5 mV	3.8 mV	Pass		
40% Load	11.2 mV	4.4 mV	5.1 mV	4.2 mV	Pass		
50% Load	8.3 mV	4.9 mV	5.5 mV	4.6 mV	Pass		
60% Load	7.9 mV	5.4 mV	6.2 mV	4.9 mV	Pass		
70% Load	8.4 mV	5.3 mV	6.6 mV	5.5 mV	Pass		
80% Load	9.1 mV	5.6 mV	6.0 mV	6.9 mV	Pass		
90% Load	10.2 mV	5.7 mV	6.2 mV	7.4 mV	Pass		
100% Load	11.0 mV	5.7 mV	6.6 mV	7.3 mV	Pass		
113% Load	12.0 mV	6.1 mV	7.7 mV	8.0 mV	Pass		
Crossload 1	8.2 mV	5.2 mV	5.4 mV	4.0 mV	Pass		
Crossload 2	11.3 mV	4.3 mV	5.9 mV	6.5 mV	Pass		

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HOLD-UP TIME & POWER OK SIGNAL (230V)				
Hold-Up Time (ms)	33.4			
AC Loss to PWR_OK Hold Up Time (ms)	32.2			
PWR_OK Inactive to DC Loss Delay (ms)	1.2			







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