

Anex Antec EA-750G

Lab ID#: 223
Receipt Date: -

Report Date: Nov 23, 2018

Report:

Test Date: -

DUT INFORMATION			
Brand	Antec		
Manufacturer (OEM)	Seasonic		
Series	Earth Watts		
Model Number	EA-750G		
Serial Number	EA750GSN174301204		
DUT Notes			

DUT SPECIFICATIONS				
Rated Voltage (Vrms)	100-240			
Rated Current (Arms)	10-5			
Rated Frequency (Hz)	50-60			
Rated Power (W)	750			
Туре	ATX12V			
Cooling	120mm Sleeve Bearing Fan (HA1225H12S-Z)			
Semi-Passive Operation	Х			
Cable Design	Semi Modular			

POWER SPECIFICATIONS						
Rail		3.3V	5V	12V	5VSB	-12V
Mov. Douge	Amps	20	20 20		3	0.3
Max. Power	Watts	100	100		15	3.6
Total Max. Power (W)		750	750			

CABLES AND CONNECTORS						
Captive Cables						
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors		
ATX connector 20+4 pin (560mm)	1	1	18-22AWG	No		
4+4 pin EPS12V (680mm)	2	2	18AWG	No		
6+2 pin PCle (680mm+150mm)	1	2	18AWG	No		
Modular Cables						
6+2 pin PCle (660mm+150mm)	1	2	18AWG	No		
SATA (560mm+150mm+150mm)/4 pin Molex (+150mm)	2	6/2	18AWG	No		
SATA (560mm+150mm) / 4 pin Molex (+150mm)	1	2/1	18AWG	No		
AC Power Cord (1380mm) - C13 coupler	1	1	18AWG	No		

All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 1/8



Anex Antec EA-750G

RESULTS	
Temperature Range (°C/°F)	30-32 / 86-89.6
Average Efficiency	88.301
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	76.516
Standby Power Consumption (W) -115V	0.0481414
Standby Power Consumption (W) -230V	0.0816828
Average PF	0.985
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	/
Avg Noise Output	28.65
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				
Power Analyzers	N4L PPA1530, N4L PPA5530				
Oscilloscopes	Picoscope 4444 & 3424, Keysight DSOX3024A, Rigol D	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 & Kjaer Type 4189				
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2	Picoscope TC-08 x2, Labjack U3-HV x2			

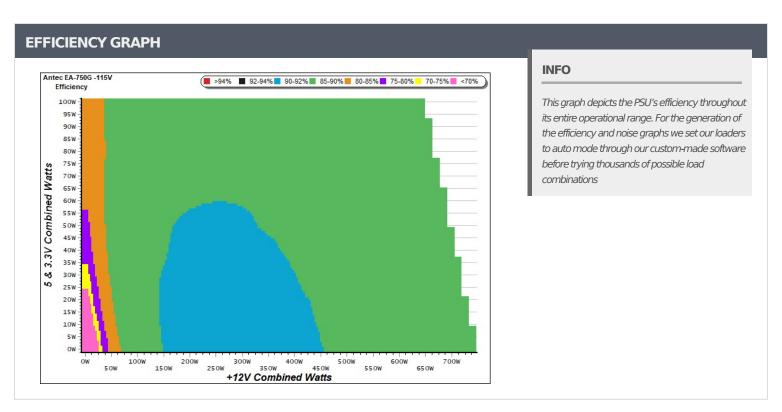
All data and graphs included in this test report can be used by any individual on the following conditions:

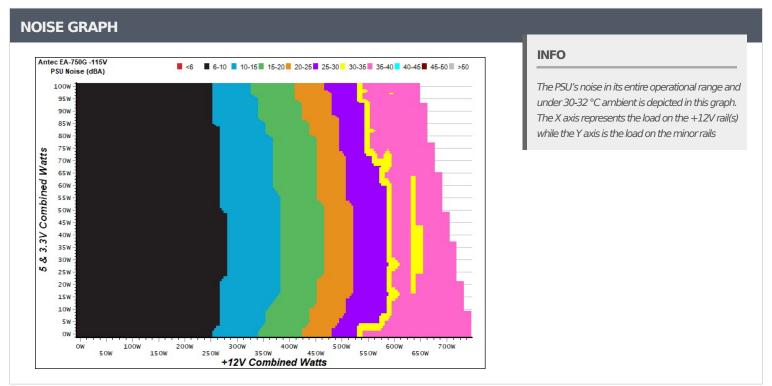
- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 2/8



Anex Antec EA-750G





All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 3/8

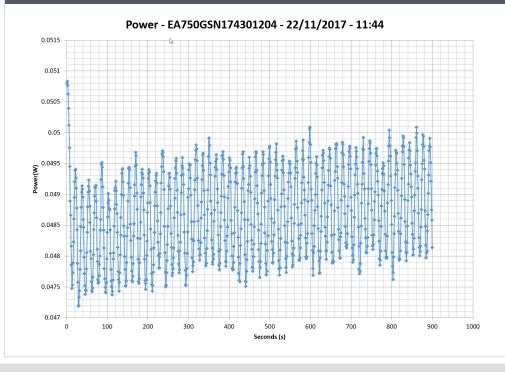


Anex Antec EA-750G

5VSB	5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)							
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts	Test #	5VSB		
1	0.045A	0.230	67.6470/	0.032	1	0.045A		
1	5.109V	0.340	67.647%	115.27V	1	5.109V		
2	0.090A	0.460		2	0.090A			
2	5.107V	0.633	72.670%	115.28V	2	5.107V		
3	0.550A	2.804	77 1100/	0.264	3	0.550A		
3	5.098V	3.636	77.118%	115.27V	3	5.098V		
4	1.000A	5.089	76.05.40/	0.358	4	1.000A		
4	5.089V	6.613	76.954%	115.26V	4	5.089V		
_	1.500A	7.619	77 1700/	0.409	_	1.500A		
5	5.079V	9.873	77.170%	115.26V	5	5.079V		
6	3.000A	15.124	75 0000/	0.470		3.000A		
6	5.042V	19.989	75.662%	115.25V	6	5.049V		

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)						
Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts		
1	0.045A	0.230	CO F2C0/	0.012		
1	5.109V	0.380	60.526%	230.83V		
2	0.090A	0.460	67.4400/	0.022		
2	5.107V	0.682	67.449%	230.84V		
3	0.550A	2.804	75 5500/	0.114		
3	5.098V	3.711	75.559%	230.83V		
4	1.000A	5.089	76 4460/	0.186		
4	5.089V	6.657	76.446%	230.82V		
1.500A		7.619	76.0510/	0.246		
5	5.079V	9.914	76.851%	230.82V		
6	3.000A	15.146	76.0100/	0.344		
6	5.049V	19.691	76.918%	230.82V		

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

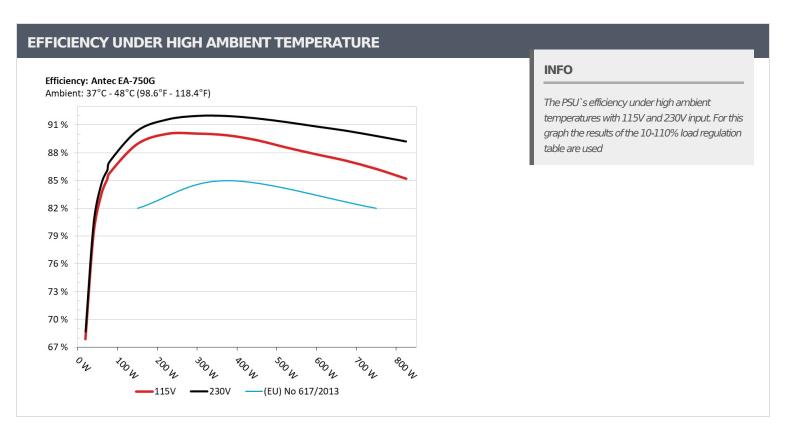
All data and graphs included in this test report can be used by any individual on the following conditions:

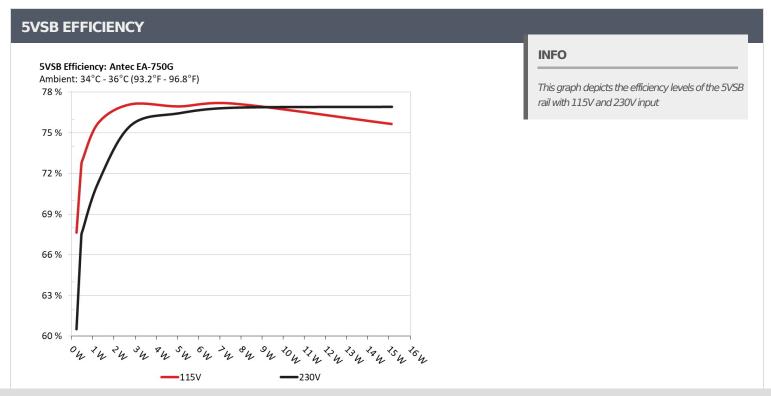
- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 4/8



Anex Antec EA-750G





All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 5/8



Anex Antec EA-750G

10-1	10% LOA	D TESTS								
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
-	4.370A	1.981A	1.989A	0.984A	74.345	05.1400/	474		38.23°C	0.969
1	12.072V	5.043V	3.317V	5.084V	87.321	85.140%	474	9.2	47.06°C	115.28\
2	9.806A	2.977A	2.988A	1.183A	149.254	00.0170/	474	0.2	38.44°C	0.985
2	12.070V	5.038V	3.312V	5.074V	167.858	88.917%	474	9.2	49.59°C	115.18V
_	15.644A	3.476A	3.478A	1.382A	224.777	00.0000/		10.1	38.51°C	0.989
3	12.067V	5.034V	3.307V	5.065V	249.671	90.029%	556	10.1	52.09°C	115.07V
	21.415A	3.974A	3.999A	1.583A	299.547	00.05.60/	010	16.0	39.77°C	0.988
4	12.064V	5.031V	3.301V	5.055V	332.624	90.056%	812	16.0	54.10°C	115.07V
_	26.859A	4.972A	5.002A	1.784A	374.474	00.0750/			40.89°C	0.988
5	12.062V	5.030V	3.297V	5.045V	416.662	89.875%	1046	22.0	56.50°C	114.96\
	32.307A	5.966A	6.012A	1.986A	449.423		89.347% 1287	1287 29.1	41.52°C	0.988
6	12.060V	5.029V	3.293V	5.035V	503.009	89.34/%			57.59°C	114.86\
-	37.788A	6.962A	7.028A	2.189A	524.738	00 5 400/	1698 35.9	25.0	42.49°C	0.988
7	12.058V	5.027V	3.286V	5.025V	592.598	88.549%		35.9	58.83°C	114.83V
	43.272A	7.959A	8.048A	2.393A	600.044	07.01.00/	2017 41.3	41.2	43.52°C	0.989
8	12.055V	5.026V	3.280V	5.015V	683.331	87.812%		41.3	60.54°C	114.72V
	49.122A	8.461A	8.551A	2.396A	674.565				44.52°C	0.990
9	12.053V	5.023V	3.274V	5.009V	774.274	87.122%	2030	40.8	63.15°C	114.60V
10	54.784A	8.968A	9.088A	3.006A	749.801	06.24224	2045	40.1	46.05°C	0.991
10	12.049V	5.019V	3.268V	4.990V	869.416	86.242%	2046	40.1	68.10°C	114.57\
	61.047A	8.980A	9.105A	3.010A	825.030	05.1050/	2045	40.1	47.70°C	0.991
11	12.045V	5.013V	3.262V	4.984V	968.514	85.185%	2046	40.1	73.39°C	114.44\
CI 1	0.735A	12.001A	11.998A	0.000A	109.510	02.02537	1100		43.97°C	0.983
CL1	12.064V	5.069V	3.318V	5.091V	131.891	83.031%	1180	25.7	55.00°C	115.21\
CI 2	62.009A	1.000A	0.999A	1.000A	760.496	00.0000	2045		46.31°C	0.991
CL2	12.050V	4.990V	3.262V	5.039V	874.781	86.936%	2046	40.1	67.91°C	114.58\

All data and graphs included in this test report can be used by any individual on the following conditions:

PAGE 6/8

> It should be mentioned that the test results are provided by Cybenetics

> The link to the original test results document should be provided in any case



Anex Antec EA-750G

20-80	20-80W LOAD TESTS								
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts
_	1.184A	0.496A	0.479A	0.196A	19.385	67.0000/	474		0.826
1	12.078V	5.031V	3.318V	5.104V	28.557	67.882%	474	9.2	115.35V
	2.445A	0.991A	0.992A	0.392A	39.809	70.2410/	474	9.2	0.929
2	12.075V	5.041V	3.318V	5.099V	50.238	79.241%			115.32V
	3.638A	1.484A	1.476A	0.589A	59.305	02.4020/	02.4020/	0.2	0.959
3	12.074V	5.043V	3.317V	5.093V	71.038	83.483%	474	9.2	115.30V
4	4.899A	1.982A	1.988A	0.786A	79.732	05.7700/	779% 474	9.2	0.973
4	12.073V	5.042V	3.317V	5.088V	92.951	85.779%			115.28V

RIPPLE MEASUREMENTS						
Test	12V	5V	3.3V	5VSB	Pass/Fail	
10% Load	21.0 mV	15.7 mV	14.9 mV	5.3 mV	Pass	
20% Load	29.6 mV	15.4 mV	12.5 mV	6.1 mV	Pass	
30% Load	34.9 mV	17.7 mV	16.3 mV	7.3 mV	Pass	
40% Load	38.5 mV	18.6 mV	18.3 mV	8.1 mV	Pass	
50% Load	33.3 mV	17.9 mV	18.1 mV	8.6 mV	Pass	
60% Load	32.4 mV	19.5 mV	16.8 mV	9.4 mV	Pass	
70% Load	33.0 mV	20.8 mV	14.9 mV	9.7 mV	Pass	
80% Load	35.3 mV	21.7 mV	18.7 mV	10.7 mV	Pass	
90% Load	37.9 mV	22.8 mV	19.1 mV	11.6 mV	Pass	
100% Load	44.0 mV	23.6 mV	19.1 mV	12.4 mV	Pass	
110% Load	52.3 mV	23.9 mV	19.0 mV	12.6 mV	Pass	
Crossload 1	27.9 mV	21.3 mV	17.5 mV	7.4 mV	Pass	
Crossload 2	44.7 mV	19.9 mV	18.3 mV	11.3 mV	Pass	

All data and graphs included in this test report can be used by any individual on the following conditions:

PAGE 7/8

> It should be mentioned that the test results are provided by Cybenetics

> The link to the original test results document should be provided in any case



Anex Antec EA-750G

HOLD-UP TIME & POWER OK SIGNAL (230V)		
Hold-Up Time (ms)	16.70	
AC Loss to PWR_OK Hold Up Time (ms)	15.10	
PWR_OK Inactive to DC Loss Delay (ms)	1.60	







All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 8/8