

Anex Corsair AX1000

Lab ID#: 546

Receipt Date: -

Test Date: -

Report:

Report Date: Nov 22, 2018

DUT INFORMATION					
Brand	Corsair				
Manufacturer (OEM)	Seasonic				
Series	AX				
Model Number	AX1000				
Serial Number	18437002000059610001				
DUT Notes	CP-9020152				

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

POWER SPECIFICATIONS							
Rail	3.3V	5V	12V	5VSB	-12V		
Mary Davier	Amps	25	25 25		3	0.3	
Max. Power Watts		125	125		15	3.6	
Total Max. Power (W)		1000	1000				

CABLES AND CONNECTORS							
Modular Cables							
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors			
ATX connector 20+4 pin (610mm)	1	1	16-20AWG	Yes			
4+4 pin EPS12V (650mm)	2	2	18AWG	Yes			
6+2 pin PCle (670mm+100mm)	4	8	16-18AWG	Yes			
SATA (460mm+110mm+110mm+110mm)	4	16	18AWG	No			
4 pin Molex (450mm+100mm+100mm+100mm)	2	8	18AWG	No			
FDD Adapter (110mm)	1	1	22AWG	No			
AC Power Cord (1400mm)	1	1	14AWG	-			

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RESULTS	
Temperature Range (°C/°F)	30-32 / 86-89.6
Average Efficiency	92.107
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	77.269
Average Efficiency 5VSB	79.719
Standby Power Consumption (W) -115V	0.0470888
Standby Power Consumption (W) -230V	0.0801304
Average PF	0.990
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	<b>✓</b>
Avg Noise Output	22.85
Efficiency Rating (ETA)	TITANIUM
Noise Rating (LAMBDA)	Α

TEST EQUIPMENT						
Electronic Loads	Chroma 6314A x2 63123A x6 63102A 63101A	Chroma 63601-5 x4 Chroma 63600-2 x2 63640-80-80 x20 63610-80-20 x2				
AC Sources	Chroma 6530, Chroma 61604, Keysight AC6804B					
Power Analyzers	N4L PPA1530 x2, 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					

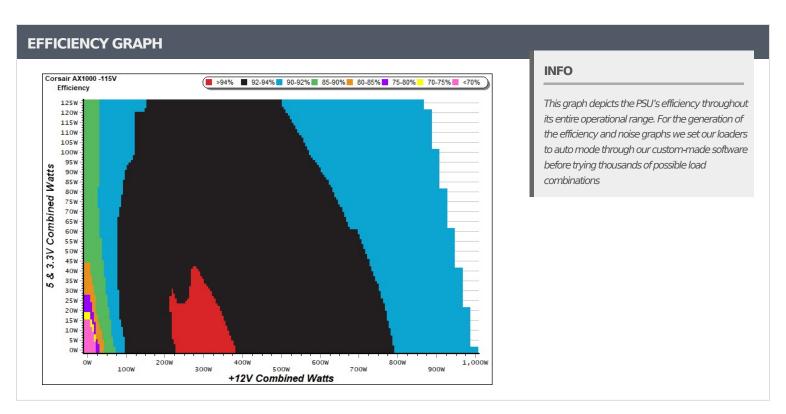
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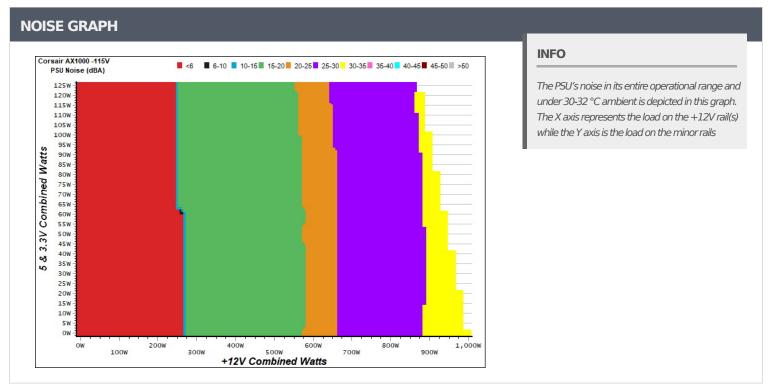
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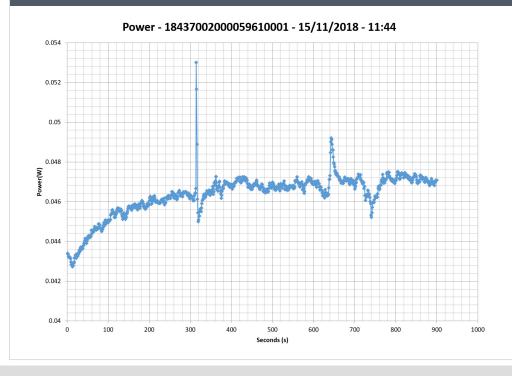


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5VSB	5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)							
Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts				
1	0.045A	0.223	CC 0C70/	0.032				
1	4.961V	0.333	66.967%	115.10V				
2	0.090A	0.447	72.0010/	0.059				
2	4.960V	0.614	72.801%	115.10V				
3	0.550A	2.724	70.0120/	0.256				
3	4.952V	3.413	79.812%	115.08V				
4	1.000A	4.944	70.0500/	0.354				
4	4.943V	6.191	79.858%	115.08V				
_	1.500A	7.404	00.7000/	0.409				
5	4.935V 9.167		80.768%	115.08V				
	3.000A	14.725	70.7000/	0.484				
6	4.908V	18.455	79.789%	115.08V				

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)							
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.045A	0.223	CO 1000/	0.011			
1	4.962V	0.371	60.108%	230.24V			
2	0.090A	0.446	67.6700/	0.019			
2	4.961V	0.659	67.678%	230.24V			
2	0.550A	2.723	76 7600/	0.098			
3	4.950V	3.547	76.769%	230.38V			
4	1.000A	4.943	70.0000/	0.162			
4	4.942V	6.266	78.886%	230.38V			
_	1.500A	7.399	70.7460/	0.220			
5	4.933V	9.396	78.746%	230.27V			
	3.000A	14.715	70 2000/	0.326			
6	4.905V	18.536	79.386%	230.27V			

### **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

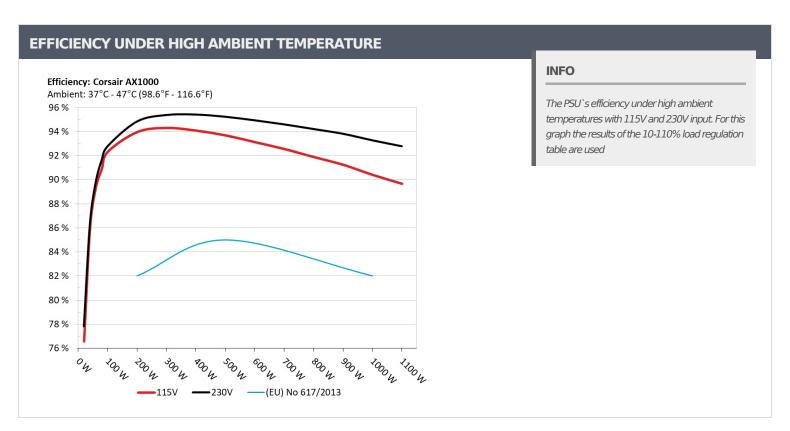
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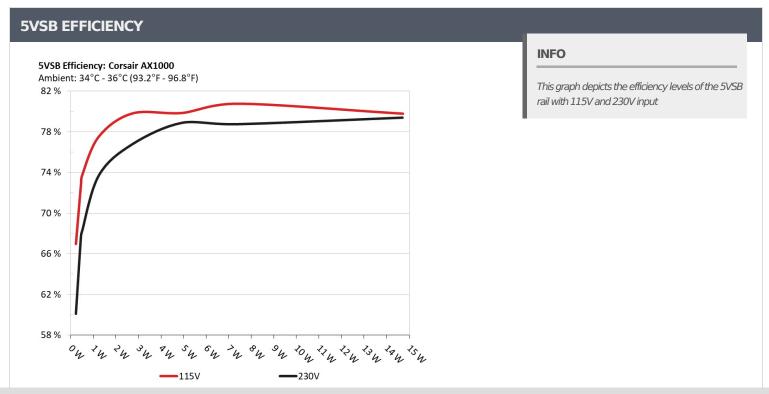
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TO-T	.10% LOA	D IESIS	"		11	"		"		
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
1	6.431A	1.977A	1.960A	0.992A	99.851	02.22.40/		-6.0	42.98°C	0.963
1	12.171V	5.055V	3.359V	5.042V	108.153	92.324%	0	<6.0	40.31°C	115.09\
2	13.863A	2.968A	2.946A	1.191A	199.572	02.0650/		46.0	44.83°C	0.981
2	12.168V	5.052V	3.358V	5.038V	212.389	93.965%	0	<6.0	41.30°C	115.10\
2	21.617A	3.462A	3.423A	1.391A	298.969	04.2000/		-6.0	41.58°C	0.990
3	12.166V	5.050V	3.357V	5.034V	317.010	94.309%	0	<6.0	45.87°C	115.05\
4	29.459A	3.960A	3.931A	1.591A	399.486	0.4.0020/	722	20.2	41.76°C	0.993
4	12.163V	5.047V	3.355V	5.029V	424.570	94.092%	733	20.2	46.67°C	115.05\
_	36.928A	4.955A	4.917A	1.792A	499.576	03.6040/	702		41.97°C	0.993
5	12.161V	5.045V	3.354V	5.025V	533.198	93.694%	782	22.4	47.60°C	115.05\
6	44.407A	5.947A	5.904A	1.992A	599.720	02.1220/			42.62°C	0.995
6	12.159V	5.042V	3.352V	5.020V	643.938	93.133%	848	25.7	48.48°C	115.07\
7	51.854A	6.945A	6.892A	2.193A	699.488	02.5020/	022	27.0	43.17°C	0.996
7	12.157V	5.040V	3.351V	5.016V	755.687	92.563%	923		50.19°C	115.07\
	59.374A	7.940A	7.881A	2.394A	800.026	01.0040/	000	20.5	43.64°C	0.997
8	12.154V	5.037V	3.350V	5.012V	870.601	91.894%	993	29.6	52.43°C	115.07\
	67.217A	8.442A	8.359A	2.395A	899.322	01.0550/		20.1	44.55°C	0.997
9	12.152V	5.035V	3.349V	5.011V	985.505	91.255%	1072	32.1	54.82°C	115.08\
10	74.903A	8.943A	8.872A	3.002A	999.772	00.41.207	1422	40.5	45.22°C	0.998
10	12.150V	5.032V	3.347V	4.998V	1105.782	90.413%	1422	40.5	56.46°C	115.08\
11	83.152A	8.944A	8.873A	3.003A	1099.823	00.6700/	1015	47.0	46.55°C	0.998
11	12.148V	5.030V	3.347V	4.997V	1226.522	89.670%	1815	47.8	58.64°C	115.10\
0.1	0.138A	15.001A	14.999A	0.000A	127.665	00.55537	020	07.7	41.93°C	0.974
CL1	12.167V	5.049V	3.350V	5.076V	144.138	88.571%	938	27.7	47.41°C	115.09\
CI C	83.013A	1.000A	0.999A	1.000A	1021.927	00.0000/	1270	40.2	45.89°C	0.998
CL2	12.149V	5.033V	3.351V	5.022V	1126.939	90.682%	1376	40.3	56.05°C	115.09\

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20-80	W LOAD <sup>-</sup>	TESTS							
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts
	1.171A	0.491A	0.474A	0.198A	19.323	76 5700/			0.784
1	12.161V	5.063V	3.364V	5.061V	25.235	76.572%	0	<6.0	115.08V
2	2.421A	0.987A	0.978A	0.396A	39.722	06.0700/	0	<6.0	0.895
2	12.161V	5.058V	3.361V	5.054V	46.151	86.070%			115.08V
2	3.604A	1.482A	1.455A	0.594A	59.208	00.2450/			0.936
3	12.160V	5.057V	3.360V	5.050V	66.269	89.345%	0	<6.0	115.09V
4	4.857A	1.976A	1.961A	0.793A	79.645	00.0000/			0.953
4	12.161V	5.056V	3.359V	5.047V	87.620	90.898%	90.898% 0 <6.0		115.09V

RIPPLE MEASUREMENTS							
Test	12V	5V	3.3V	5VSB	Pass/Fail		
10% Load	12.5 mV	9.7 mV	12.9 mV	10.7 mV	Pass		
20% Load	13.0 mV	5.2 mV	10.8 mV	12.7 mV	Pass		
30% Load	6.7 mV	5.0 mV	10.1 mV	9.1 mV	Pass		
40% Load	7.7 mV	6.4 mV	9.1 mV	7.3 mV	Pass		
50% Load	8.4 mV	5.0 mV	8.7 mV	7.2 mV	Pass		
60% Load	8.8 mV	5.2 mV	9.0 mV	7.4 mV	Pass		
70% Load	9.7 mV	5.3 mV	9.1 mV	8.2 mV	Pass		
80% Load	10.4 mV	5.5 mV	9.8 mV	8.5 mV	Pass		
90% Load	10.9 mV	5.6 mV	10.1 mV	8.4 mV	Pass		
100% Load	15.2 mV	6.5 mV	10.7 mV	9.6 mV	Pass		
110% Load	15.7 mV	6.6 mV	11.0 mV	9.9 mV	Pass		
Crossload 1	15.2 mV	5.2 mV	11.6 mV	7.0 mV	Pass		
Crossload 2	15.1 mV	6.2 mV	9.5 mV	9.0 mV	Pass		

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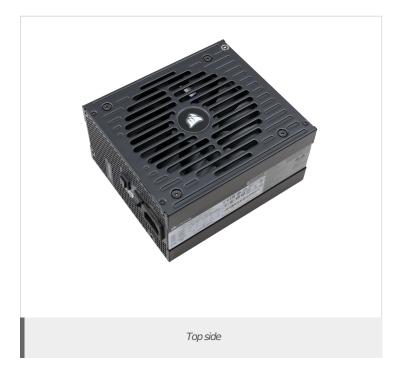
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HOLD-UP TIME & POWER OK SIGNAL (230V)				
Hold-Up Time (ms)	20.40			
AC Loss to PWR_OK Hold Up Time (ms)	18.70			
PWR_OK Inactive to DC Loss Delay (ms)	1.70			







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