

Anex Corsair AX1200i

Lab ID#: 103

Receipt Date: Feb 21, 2018 Test Date: Mar 1, 2018 Report:

Report Date: Mar 5, 2018

DUT INFORMATION				
Brand	Corsair			
Manufacturer (OEM)	Flextronics			
Series	AXi			
Model Number				
Serial Number	16399523001003440077			
DUT Notes	CP-9020008			

DUT SPECIFICATIONS						
Rated Voltage (Vrms)	100-240					
Rated Current (Arms)	15					
Rated Frequency (Hz)	50-60					
Rated Power (W)	1200					
Туре	ATX12V					
Cooling	140mm Double Ball-Bearing Fan (D14BH-12)					
Semi-Passive Operation	✓ (selectable)					
Cable Design	Fully Modular					

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 DS	52072A				
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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RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	/

115V	
Average Efficiency	89.489%
Efficiency With 10W (≤500W) or 2% (>500W)	0.000
Average Efficiency 5VSB	82.769%
Standby Power Consumption (W)	0.0539247
Average PF	0.995
Avg Noise Output	22.64 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A

POWER SPECIFICATIONS							
Rail		3.3V	5V	12V	5VSB	-12V	
May Dawer	Amps	30	30	100.4	3.5	0.8	
Max. Power Watts		180		1204.8	17.5	9.6	
Total Max. Power (W)	1204.8						

HOLD-UP TIME & POWER OK SIGNAL (230V)	
Hold-Up Time (ms)	30.06
AC Loss to PWR_OK Hold Up Time (ms)	25.6
PWR_OK Inactive to DC Loss Delay (ms)	4.46

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Modular Cables			
Description	Cable Count	Connector Count (Total)	Gauge
ATX connector 20+4 pin (600mm)	1	1	16-22AWG
4+4 pin EPS12V (650mm)	2	2	18AWG
6+2 pin PCle (600mm+150mm) / (600mm)	2/4	4/4	16-18 / 18AWG
SATA (400mm+95mm+95mm+95mm)	3	12	18AWG
SATA (550mm+95mm+95mm+95mm)	1	4	18AWG
4 pin Molex (450mm+100mm+100mm+100mm)	3	12	18AWG
FDD Adapter (+105mm)	2	2	22AWG
C-Link USB Cable (800mm)	1	1	24-28AWG
	<u></u>		

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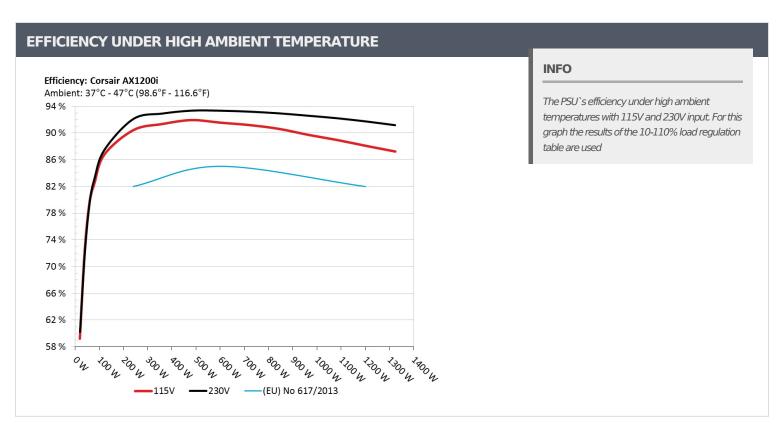
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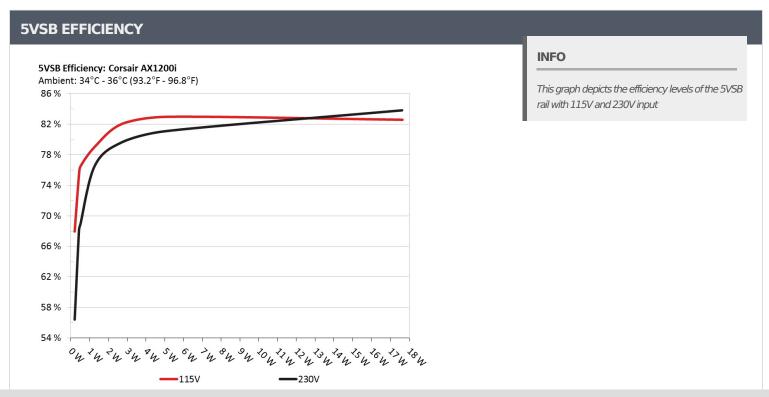
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)							
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.042A	0.212	C7.0400/	0.030			
	5.083V	0.312	67.949%	115.08V			
2	0.087A	0.444	75 5100/	0.055			
2	5.082V	0.588	75.510%	115.09V			
2	0.532A	2.700	70 2050/	0.264			
3	5.077V	3.405	79.295%	115.10V			
4	3.501A	17.640	02.0040/	0.549			
	5.038V	21.355	82.604%	115.07V			

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)						
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts		
1	0.042A	0.211	FC 4170/	0.011		
	5.082V	0.374	56.417%	230.27V		
	0.087A	0.443	CO 1540/	0.018		
2	5.082V	0.650	68.154%	230.26V		
2	0.532A	2.700	70 5000/	0.093		
3	5.076V	3.392	79.599%	230.29V		
4	3.501A	17.636	02.0050/	0.370		
	5.037V	21.044	83.805%	230.26V		

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# 115V

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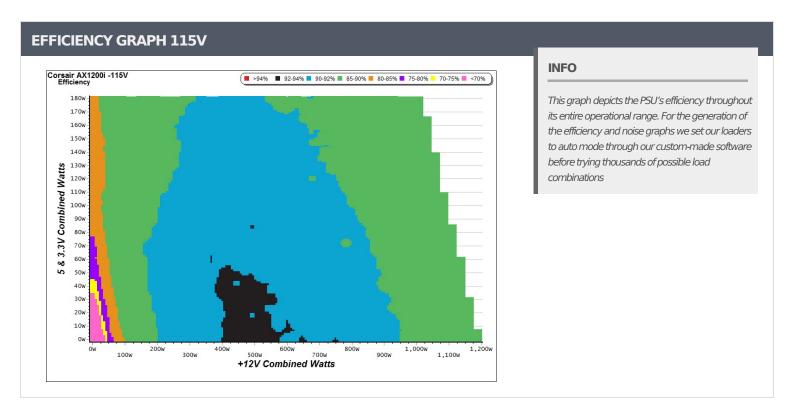
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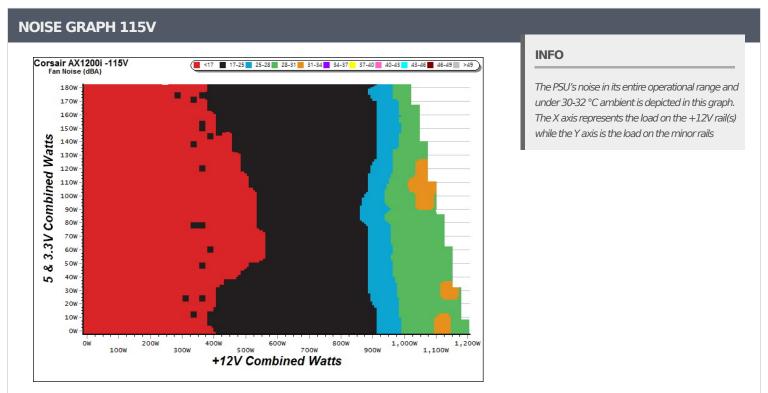
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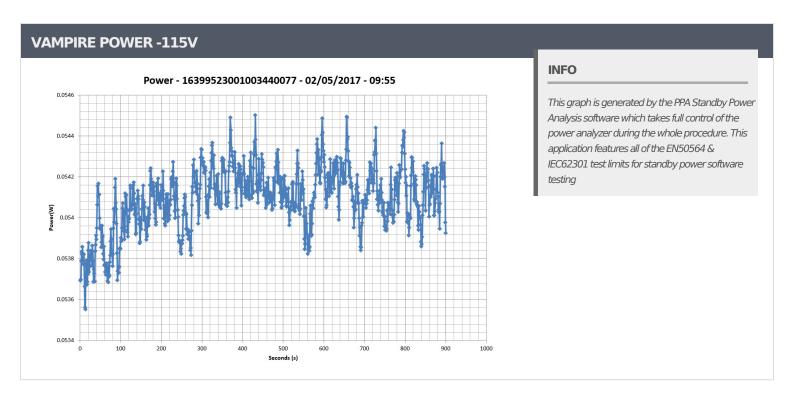
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10-1	10% LOA	D TESTS	115V								
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	Temps (In/Out)	PF/AC Volts	
1	8.207A	1.996A	1.997A	0.986A	120.319	06 7210/	0	0	51.37°C	0.984	
1	12.030V	5.013V	3.303V	5.058V	138.727	86.731%	0	0	39.53°C	115.12\	
2	17.431A	2.990A	3.003A	1.187A	240.646	00.4050/	0	0	52.95°C	0.993	
2	12.036V	5.004V	3.294V	5.049V	266.188	90.405%	0	0	40.09°C	115.14\	
2	27.013A	3.498A	3.514A	1.386A	361.277	01.2250/	0	0	54.65°C	0.997	
3	12.038V	5.009V	3.298V	5.039V	395.595	91.325%	0	0	40.82°C	115.14\	
	36.583A	3.995A	3.998A	1.591A	481.666	01.0000/	504	10.0	48.99°C	0.998	
4	12.040V	5.009V	3.300V	5.029V	524.066	91.909%	584	18.2	46.45°C	115.13\	
_	45.805A	5.001A	5.006A	1.791A	602.100	01.5100/	500	18.3	43.13°C	0.999	
5	12.043V	4.997V	3.294V	5.020V	657.896	91.519%	600		47.88°C	115.13\	
	55.028A	6.016A	6.022A	1.995A	722.541	0	91.159% 744		43.61°C	0.999	
6	12.044V	4.986V	3.287V	5.010V	792.619	91.159%		44 20.6	47.54°C	115.13\	
_	64.234A	7.031A	7.040A	2.197A	842.888	00.5000/	598% 860	000	22.2	44.22°C	0.999
7	12.047V	4.975V	3.280V	5.002V	930.362	90.598%		22.3	47.73°C	115.16\	
_	73.453A	8.031A	8.027A	2.401A	963.360	00 7110/	1000	27.2	44.62°C	0.999	
8	12.048V	4.982V	3.289V	4.993V	1073.850	89.711%	1080	27.2	48.04°C	115.13\	
_	83.088A	8.539A	8.560A	2.406A	1083.725	00.03.40/	1260	21.0	45.04°C	0.999	
9	12.049V	4.978V	3.282V	4.986V	1218.567	88.934%	1360	31.8	48.58°C	115.13\	
	92.285A	9.064A	9.065A	3.521A	1204.264	00.0470/		27.0	45.92°C	0.999	
10	12.050V	4.970V	3.276V	4.966V	1367.747	88.047%	1704	37.8	49.31°C	115.12\	
1.1	102.216A	9.068A	9.080A	3.525A	1324.205	07.0100/	1004	20.0	46.95°C	0.999	
11	12.053V	4.964V	3.271V	4.959V	1518.371	87.212%	1904	39.9	50.00°C	115.14\	
	0.098A	22.030A	19.998A	0.003A	177.028	02.00001			48.97°C	0.988	
CL1	12.004V	4.997V	3.288V	5.049V	211.236	83.806%	0	0	43.36°C	115.15\	
0.0	100.358A	1.003A	1.003A	1.002A	1222.744	00.1550/	.=		46.57°C	0.999	
CL2	12.051V	4.996V	3.290V	5.008V	1387.000	88.157%	7% 1760	38.1	49.88°C	115.14\	

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20-80	20-80W LOAD TESTS 115V										
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	PF/AC Volts		
-	1.212A	0.492A	0.482A	0.195A	19.657	F0 2220/	0	0	0.910		
1	12.047V	5.020V	3.311V	5.075V	33.186	59.233%	0	0	115.13V		
2	2.452A	0.991A	0.995A	0.390A	39.770	72.4020/	% 0 0	0	0.957		
2	12.043V	5.018V	3.308V	5.070V	54.929	72.403%		0	115.13V		
2	3.690A	1.488A	1.508A	0.590A	59.860	70.6300/	0	0	0.980		
3	12.039V	5.016V	3.307V	5.067V	75.165	79.638%	0	0	115.12V		
4	4.921A	1.996A	1.996A	0.789A	79.824	02.4400/	0	0	0.973		
4	12.035V	5.014V	3.305V	5.062V	96.817	82.448%	0	0	115.12V		

RIPPLE MEASUREMENTS 115V					
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	3.2 mV	3.8 mV	9.7 mV	4.0 mV	Pass
20% Load	5.4 mV	3.6 mV	9.7 mV	4.4 mV	Pass
30% Load	6.2 mV	3.7 mV	9.6 mV	4.6 mV	Pass
40% Load	5.2 mV	4.7 mV	9.8 mV	4.6 mV	Pass
50% Load	14.0 mV	8.1 mV	9.2 mV	16.6 mV	Pass
60% Load	7.6 mV	4.2 mV	10.7 mV	5.4 mV	Pass
70% Load	7.4 mV	4.2 mV	11.8 mV	5.5 mV	Pass
80% Load	7.9 mV	4.7 mV	12.5 mV	6.6 mV	Pass
90% Load	9.1 mV	4.4 mV	12.5 mV	6.6 mV	Pass
100% Load	12.0 mV	6.0 mV	14.0 mV	9.2 mV	Pass
110% Load	14.6 mV	6.1 mV	13.9 mV	9.1 mV	Pass
Crossload 1	6.5 mV	6.0 mV	20.3 mV	17.2 mV	Pass
Crossload 2	12.3 mV	5.0 mV	8.4 mV	7.0 mV	Pass

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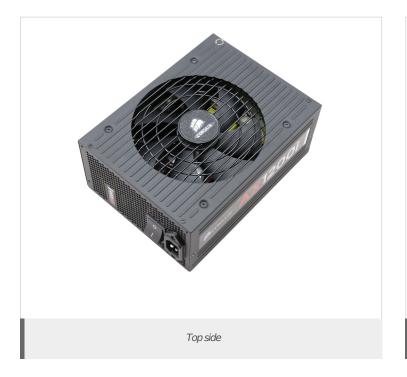
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#### **CERTIFICATIONS 115V**







**Aristeidis Bitziopoulos**Lab Director

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