

Anex Corsair HX1000i

Lab ID#: 99

Receipt Date:
Test Date: -

Report: 19PS99A

Report Date: Apr 27, 2018

DUT INFORMATION				
Brand	Corsair			
Manufacturer (OEM)	Channel Well Technology			
Series	HXi			
Model Number	HX1000i			
Serial Number	16407148000014180073			
DUT Notes	CP-9020074			

DUT SPECIFICATIONS					
Rated Voltage (Vrms)	100-240				
Rated Current (Arms)	13-6.5				
Rated Frequency (Hz)	47-63				
Rated Power (W)	1000				
Туре	ATX12V				
Cooling	135mm Fluid Dynamic Bearing Fan (NR135P)				
Semi-Passive Operation	✓ (selectable)				
Cable Design	Fully Modular				

POWER SPECIFICATIONS							
Rail	3.3V	5V	12V	5VSB	-12V		
May Dayer	Amps	25	25 25		3	0.8	
Max. Power Watts		150	150		15	9.6	
Total Max. Power (W)		1000	1000				

CABLES AND CONNECTORS						
Modular Cables						
Description	Cable Count	Connector Count (Total)	Gauge			
ATX connector 20+4 pin (600mm)	1	1	16-18AWG			
4+4 pin EPS12V (800mm) / (650mm)	1/1	1/1	18AWG			
6+2 pin PCle (600mm+150mm)	4	8	16-18AWG			
SATA (550mm+100mm+100mm+100mm)	1	4	18AWG			
SATA (500mm+100mm+100mm+100mm)	2	8	18AWG			
4 pin Molex (450mm+100mm+100mm+100mm)	3	12	18AWG			
FDD Adapter (+100mm)	2	2	22AWG			
C-Link USB Cable (800mm) / C-Link I2C Cable (800mm)	1/1	1/1	24-28 / 29AWG			

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RESULTS	
Temperature Range (°C/°F)	30-32 / 86-89.6
Average Efficiency	89.602
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	80.133
Standby Power Consumption (W) -115V	0.0438908
Standby Power Consumption (W) -230V	0.0767632
Average PF	0.993
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	/
Avg Noise Output	20.05
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Α

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					

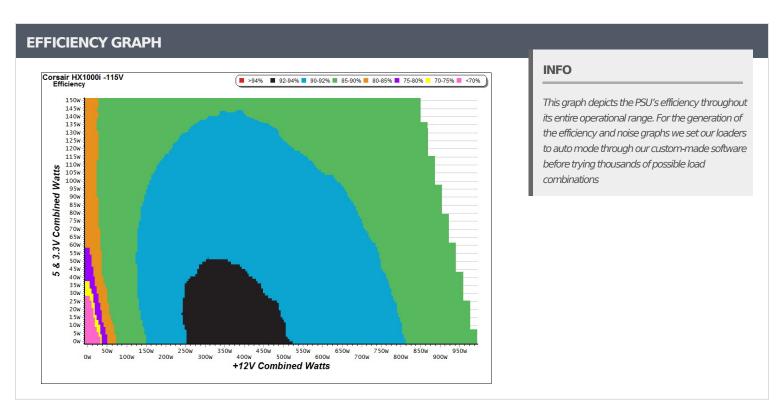
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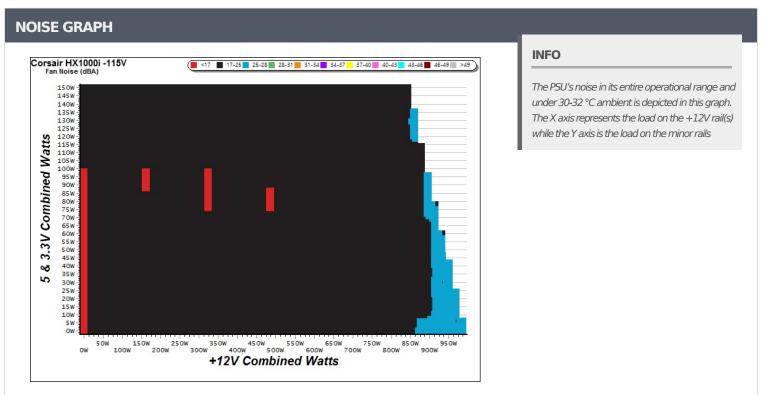
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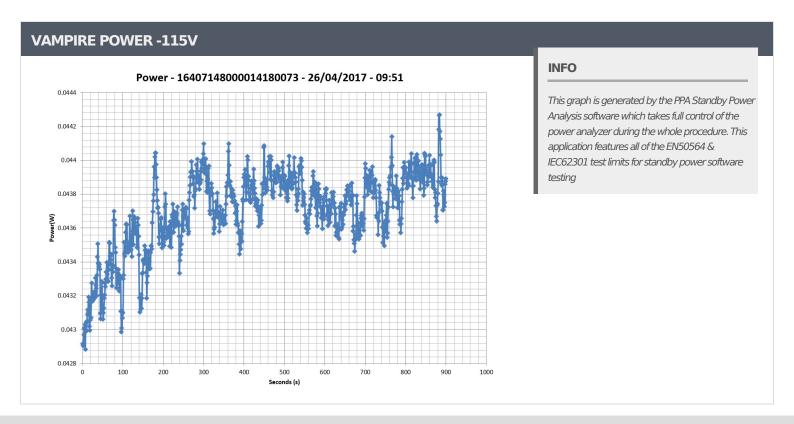
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)						
Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts		
1	0.042A	0.212	CO F000/	0.030		
1	5.057V	0.305	69.508%	115.06V		
2	0.087A	0.442	75 5560/	0.058		
Z	5.056V	0.585	75.556%	115.07V		
3	0.532A	2.686	00.0060/	0.268		
3	5.047V	3.324	80.806%	115.05V		
4	3.001A	14.977	70.0520/	0.529		
4	4.990V	19.042	78.652%	115.06V		

5VSB	5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)						
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.042A	0.212	61 2720/	0.010			
1	5.057V	0.346	61.272%	230.19V			
2	0.087A	0.442	60.0270/	0.019			
2	5.056V	0.632	69.937%	230.20V			
3	0.532A	2.685	70.0470/	0.098			
3	5.046V	3.401	78.947%	230.21V			
4	3.002A	14.972	70.2100/	0.357			
4	4.988V	18.876	79.318%	230.18V			



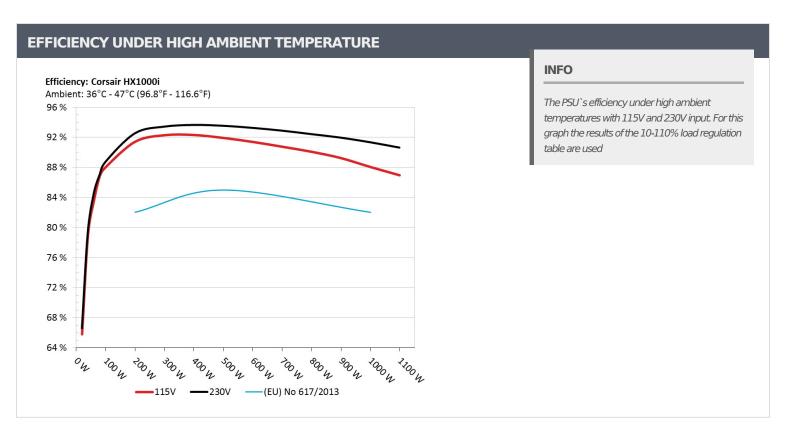
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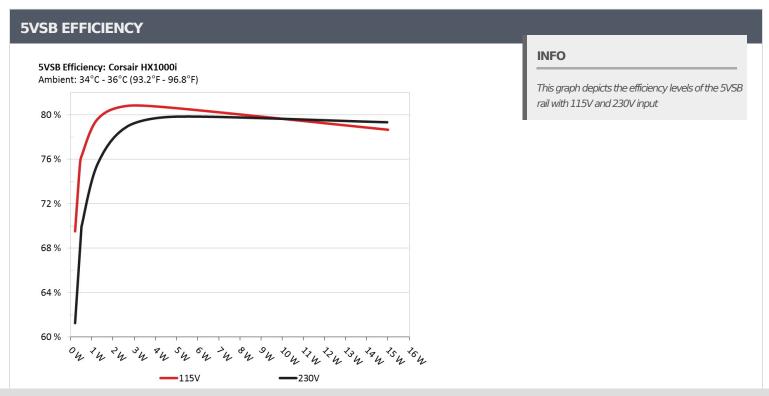
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	.10% LOA			II	11			11		
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	Temps (In/Out)	PF/AC Volts
1	6.462A	1.995A	1.992A	1.000A	99.797	00.0200/			45.85°C	0.979
1	12.107V	5.005V	3.309V	4.985V	113.368	88.029%	0	0	38.27°C	115.10\
2	13.962A	3.002A	2.994A	1.207A	199.687	01.4100/			45.84°C	0.991
2	12.090V	4.993V	3.305V	4.973V	218.451	91.410%	0	0	38.77°C	115.10\
2	21.850A	3.508A	3.514A	1.405A	299.877	02.2020/			47.40°C	0.994
3	12.073V	4.991V	3.299V	4.968V	324.952	92.283%	0	0	39.35°C	115.10\
4	29.741A	3.996A	4.000A	1.606A	399.625	02.2100/			49.11°C	0.996
4	12.052V	5.007V	3.296V	4.977V	432.914	92.310%	0	0	40.12°C	115.10\
_	37.321A	4.975A	4.982A	1.801A	499.583	01.0240/	91.924% 0		48.15°C	0.997
5	12.034V	5.021V	3.310V	4.993V	543.473	91.924%		0	40.73°C	115.09\
6	44.915A	5.983A	5.965A	2.007A	599.525	01.2020/	608	17.5	41.77°C	0.997
6	12.017V	5.013V	3.318V	4.981V	655.991	91.392%			53.67°C	115.09\
7	52.510A	7.002A	6.969A	2.211A	699.445	00.7550/	700	10.6	42.18°C	0.997
7	12.004V	5.003V	3.314V	4.970V	770.696	90.755%	788	19.6	51.85°C	115.08\
0	60.147A	8.019A	7.977A	2.422A	799.266	00.0040/	074	21.2	42.82°C	0.996
8	11.985V	4.989V	3.309V	4.955V	887.245	90.084%	874	21.3	52.64°C	115.08\
0	68.240A	8.533A	8.502A	2.424A	899.275	00.2440/	000	22.2	43.99°C	0.996
9	11.968V	4.980V	3.304V	4.948V	1007.663	89.244%	960	22.3	54.44°C	115.07\
10	76.102A	9.064A	9.007A	3.044A	998.926	00.0640/	1116	26.2	45.51°C	0.996
10	11.947V	4.969V	3.298V	4.925V	1134.313	88.064%	1116	26.2	56.55°C	115.07\
11	84.602A	9.073A	9.020A	3.050A	1098.750	06.0000/	1207	20.2	46.79°C	0.996
11	11.927V	4.962V	3.291V	4.917V	1263.513	86.960%	1287	30.3	57.98°C	115.08\
CL 1	0.098A	18.028A	18.002A	0.002A	151.586	02.40.40/	070	21.2	44.90°C	0.988
CL1	12.074V	4.982V	3.365V	5.030V	181.553	83.494%	878	21.3	53.64°C	115.12\
CI 2	83.252A	1.003A	1.001A	1.001A	1007.857	00.42007	1150	27.0	45.83°C	0.996
CL2	11.948V	4.950V	3.256V	4.933V	1139.730	88.429%	1156	27.0	55.72°C	115.02\

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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	1.205A	0.492A	0.482A	0.196A	19.665	CE 0000/			0.839
1	12.129V	5.020V	3.313V	5.015V	29.882	65.809%	0	0	115.10V
2	2.435A	0.991A	0.997A	0.396A	39.774	70.0500/	.059% 0		0.925
2	12.123V	5.016V	3.312V	5.006V	50.309	79.059%		0	115.10V
2	3.667A	1.487A	1.510A	0.601A	59.892	02.5020/			0.948
3	12.117V	5.012V	3.312V	4.998V	71.673	83.563%	0	0	115.10V
4	4.889A	1.995A	1.991A	0.801A	79.794	06.0420/			0.977
4	12.112V	5.007V	3.310V	4.991V	91.883	86.843%	0	0	115.10V

RIPPLE MEASUREMENTS							
Test	12V	5V	3.3V	5VSB	Pass/Fail		
10% Load	8.9 mV	5.9 mV	5.9 mV	5.0 mV	Pass		
20% Load	14.1 mV	5.2 mV	6.1 mV	5.5 mV	Pass		
30% Load	18.8 mV	5.9 mV	7.4 mV	6.9 mV	Pass		
40% Load	24.1 mV	6.2 mV	8.6 mV	7.7 mV	Pass		
50% Load	22.7 mV	7.6 mV	10.6 mV	9.1 mV	Pass		
60% Load	24.8 mV	7.5 mV	11.4 mV	9.7 mV	Pass		
70% Load	28.3 mV	8.4 mV	12.6 mV	11.3 mV	Pass		
80% Load	32.6 mV	10.4 mV	13.8 mV	13.3 mV	Pass		
90% Load	38.9 mV	10.7 mV	15.9 mV	14.8 mV	Pass		
100% Load	47.7 mV	14.0 mV	19.0 mV	18.3 mV	Pass		
110% Load	61.1 mV	14.6 mV	21.3 mV	19.9 mV	Pass		
Crossload 1	16.4 mV	8.7 mV	11.9 mV	9.4 mV	Pass		
Crossload 2	45.7 mV	10.8 mV	17.8 mV	15.0 mV	Pass		

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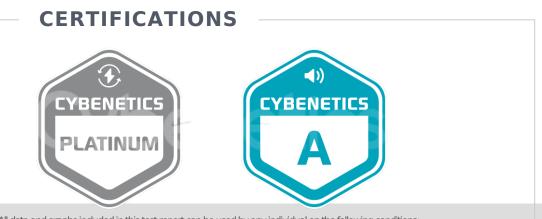


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HOLD-UP TIME & POWER OK SIGNAL (230V)				
Hold-Up Time (ms)	18.92			
AC Loss to PWR_OK Hold Up Time (ms)	16.72			
PWR_OK Inactive to DC Loss Delay (ms)	2.20			







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