

Anex Corsair HX750i

Lab ID#: 101
Receipt Date: -

Test Date: -

DUT Notes

Report Date: Apr 28, 2018

Report:

DUT INFORMATION					
Brand	Corsair				
Manufacturer (OEM)	Channel Well Technology				
Series	HXi				
Model Number	HX750i				
Serial Number	16357169000005810454				

CP-9020072

DUT SPECIFICATIONS					
Rated Voltage (Vrms)	100-240				
Rated Current (Arms)	10-5				
Rated Frequency (Hz)	47-63				
Rated Power (W)	750				
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	
Mov. Dower	Amps	25	25	62.5	3	0.8	
Max. Power	Max. Power Watts		150		15	9.6	
Total Max. Power (W)		750					

CABLES AND CONNECTORS						
Modular Cables						
Description	Cable Count	Connector Count (Total)	Gauge			
ATX connector 20+4 pin (600mm)	1	1	18AWG			
4+4 pin EPS12V (650mm)	2	2	18AWG			
6+2 pin PCle (600mm+150mm)	3	6	16-18AWG			
SATA (550mm+100mm+100mm+100mm)	1	4	18AWG			
SATA (500mm+100mm+100mm)	2	8	18AWG			
4 pin Molex (450mm+100mm+100mm+100mm)	2	8	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	89.819
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	79.173
Standby Power Consumption (W) -115V	0.0407489
Standby Power Consumption (W) -230V	0.0775661
Average PF	0.992
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	/
Avg Noise Output	19.10
Efficiency Rating (ETA)	PLATINUM
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					

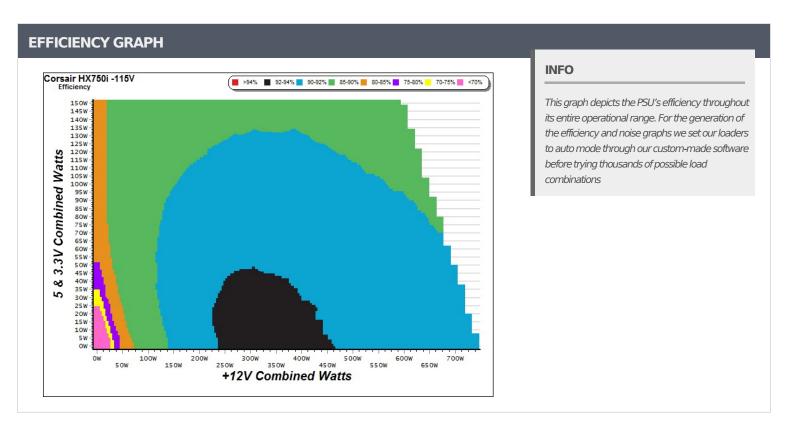
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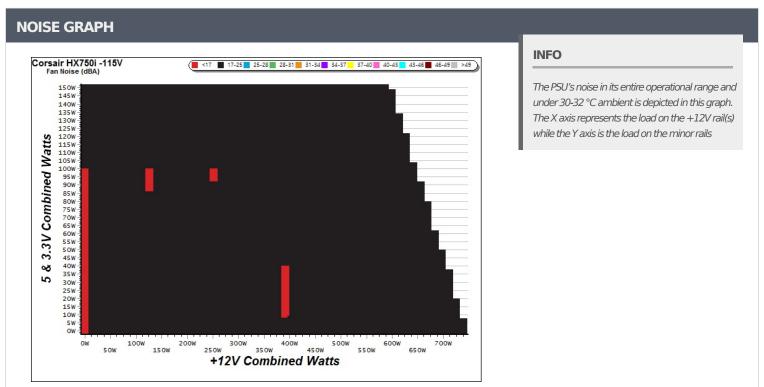
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)						
Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts		
1	0.042A	0.213	70 5200/	0.030		
1	5.067V	0.302	70.530%	115.07V		
2	0.088A	0.444	76 5520/	0.058		
	5.066V	0.580	76.552%	115.07V		
2	0.532A	2.690	00.1210/	0.271		
3	5.053V	3.357	80.131%	115.08V		
4	3.002A	14.952	77.7450/	0.527		
4	4.981V	19.232	77.745%	115.07V		

5VSB	5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)							
Test #	5VSB	B DC/AC (Watts) Efficiency		PF/AC Volts				
1	0.042A	0.212	61.0050/	0.011				
T	5.067V	0.347	61.095%	230.22V				
2	0.087A	0.443	70.541%	0.019				
2	5.066V	0.628	70.541%	230.23V				
3	0.532A	2.689	70.0700/	0.099				
3	5.053V	3.409	78.879%	230.23V				
4	3.001A	14.951	70.0600/	0.357				
4	4.982V	18.911	79.060%	230.22V				

VAMPIRE POWER -115V INFO Power - 16357169000005810454 - 28/04/2017 - 09:51 This graph is generated by the PPA Standby Power Analysis software which takes full control of the power analyzer during the whole procedure. This 0.044 application features all of the EN50564 & IEC62301 test limits for standby power software testing 0.043 0.041 0.04 0.039 100 200 300 400 500 600 700 800 900 1000 Seconds (s)

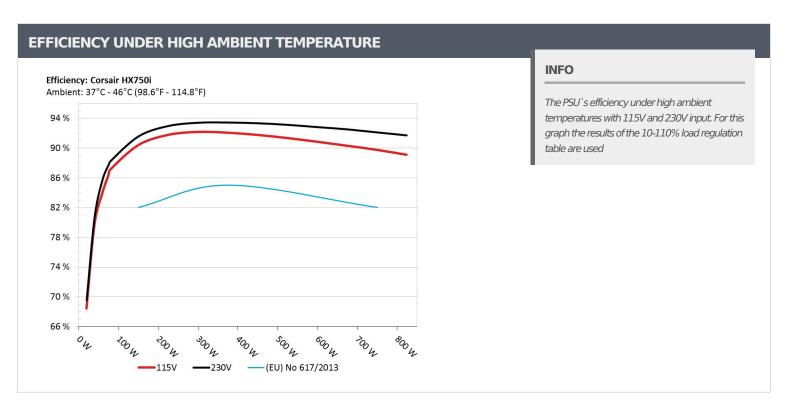
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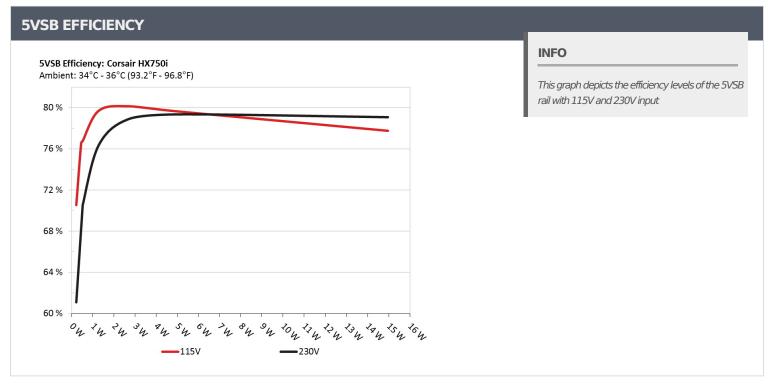
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10-1	.10% LOA	D TESTS								
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	Temps (In/Out)	PF/AC Volts
_	4.384A	2.006A	2.000A	1.006A	74.806	06.2400/			45.89°C	0.972
1	12.131V	4.998V	3.298V	4.972V	86.632	86.349%	0	0	38.07°C	115.12\
2	9.814A	2.990A	2.999A	1.201A	149.769	00.2020/			46.77°C	0.986
2	12.117V	5.009V	3.299V	4.981V	165.686	90.393%	0	0	38.64°C	115.11\
_	15.598A	3.483A	3.509A	1.399A	224.850	01.7700/			47.56°C	0.992
3	12.102V	5.027V	3.302V	4.995V	245.014	91.770%	0	0	39.23°C	115.11\
_	21.390A	3.976A	3.986A	1.601A	299.735				48.27°C	0.994
4	12.088V	5.028V	3.309V	4.992V	325.199	92.170%	0	0	39.78°C	115.11\
_	26.860A	4.981A	4.974A	1.805A	374.710				49.23°C	0.995
5	12.071V	5.019V	3.316V	4.980V	407.015	92.063%	0	0	40.10°C	115.11\
	32.327A	5.989A	5.973A	2.011A	449.578	00.	6 619	619 17.6	41.89°C	0.996
6	12.058V	5.009V	3.313V	4.968V	489.925	91.765%			51.46°C	115.11\
_	37.812A	7.010A	6.976A	2.218A	524.607	01.2460/	, 710	100	42.10°C	0.996
7	12.046V	4.999V	3.310V	4.955V	574.310	91.346%	718	18.9	50.89°C	115.10\
	43.308A	8.024A	7.983A	2.426A	599.537				42.44°C	0.996
8	12.033V	4.988V	3.307V	4.941V	659.943	90.847%	811	20.3	51.75°C	115.11\
	49.256A	8.538A	8.512A	2.431A	674.564				43.44°C	0.996
9	12.018V	4.978V	3.302V	4.935V	746.898	90.315%	917	21.6	53.20°C	115.10\
10	54.959A	9.065A	9.010A	3.055A	749.405	00.7600/	1070	240	44.45°C	0.996
10	12.003V	4.969V	3.296V	4.907V	834.895	89.760%	1070	24.8	54.87°C	115.10\
	61.283A	9.071A	9.019A	3.058A	824.225	00.1000/	1163	27.0	45.76°C	0.996
11	11.986V	4.963V	3.291V	4.901V	925.037	89.102%	1163	27.0	56.98°C	115.09\
01.1	0.099A	18.028A	18.002A	0.004A	151.215	02.05.12/	1	10.5	43.76°C	0.989
CL1	12.105V	4.968V	3.357V	5.018V	180.418	83.814%	778	19.5	51.52°C	115.12\
	62.449A	1.005A	1.003A	1.001A	762.683	00.1500/	1000	05.7	44.28°C	0.996
CL2	12.002V	4.951V	3.251V	4.928V	845.958	90.156%	1099	25.7	54.11°C	115.10\

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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
-	1.202A	0.492A	0.481A	0.196A	19.634	60.4220/			0.830
1	12.147V	5.010V	3.300V	5.002V	28.695	68.423%	0	0	115.16V
2	2.428A	0.990A	1.000A	0.401A	39.737	70.7500/	79.750% 0 0	0.926	
2	12.142V	5.005V	3.299V	4.993V	49.827	79.750%		0	115.12V
2	3.659A	1.493A	1.514A	0.601A	59.860	04.01007			0.944
3	12.136V	5.000V	3.298V	4.985V	71.253	84.010%	0	0	115.12V
4	4.882A	2.006A	1.999A	0.801A	79.826	07.1220/			0.977
4	12.131V	4.996V	3.298V	4.977V	91.626	87.122%	0	0	115.12V

RIPPLE MEASUREMENTS							
Test	12V	5V	3.3V	5VSB	Pass/Fail		
10% Load	7.6 mV	4.7 mV	4.4 mV	4.2 mV	Pass		
20% Load	9.8 mV	4.9 mV	5.1 mV	4.8 mV	Pass		
30% Load	14.2 mV	5.2 mV	6.0 mV	5.9 mV	Pass		
40% Load	17.8 mV	5.4 mV	7.3 mV	7.4 mV	Pass		
50% Load	21.8 mV	5.5 mV	7.7 mV	7.8 mV	Pass		
60% Load	25.9 mV	6.2 mV	8.8 mV	9.0 mV	Pass		
70% Load	23.5 mV	7.1 mV	9.6 mV	9.6 mV	Pass		
80% Load	25.7 mV	8.5 mV	11.0 mV	10.5 mV	Pass		
90% Load	28.5 mV	8.3 mV	12.6 mV	11.6 mV	Pass		
100% Load	32.6 mV	9.2 mV	14.4 mV	13.0 mV	Pass		
110% Load	37.2 mV	9.7 mV	15.5 mV	14.7 mV	Pass		
Crossload 1	14.9 mV	8.5 mV	9.5 mV	8.3 mV	Pass		
Crossload 2	31.4 mV	7.9 mV	13.3 mV	11.7 mV	Pass		

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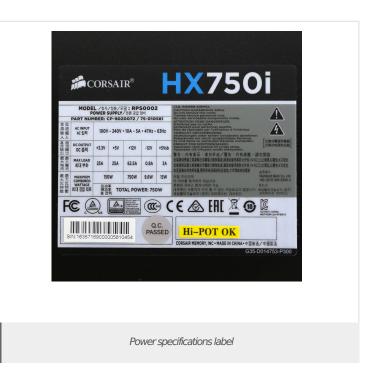
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HOLD-UP TIME & POWER OK SIGNAL (230V)			
Hold-Up Time (ms)	21.72		
AC Loss to PWR_OK Hold Up Time (ms)	17.00		
PWR_OK Inactive to DC Loss Delay (ms)	4.72		







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