Anex

Corsair HX750 (#2)

Lab ID#: 248
Receipt Date: Dec 5, 2018
Test Date: Dec 12, 2018

Report: 19PS248A
Report Date: Dec 15, 2018

DUT INFORMATION

Brand	Corsair
Manufacturer (OEM)	Channel Well Technology
Series	HX
Model Number	
Serial Number	17027124000027040196
DUT Notes	CP-9020137

DUT SPECIFICATIONS

Rated Voltage (Vrms)	100-240
Rated Current (Arms)	10-5
Rated Frequency (Hz)	47-63
Rated Power (W)	750
Type	ATX12V
Cooling	135mm Fluid Dynamic Bearing Fan (NR135P)
Semi-Passive Operation	✓
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 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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RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓

115V	
Average Efficiency	89.376%
Efficiency With 10W (≤500W) or 2% (>500W)	0.000
Average Efficiency 5VSB	79.614%
Standby Power Consumption (W)	0.0479377
Average PF	0.993
Avg Noise Output	20.35 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A

230V	
Average Efficiency	91.218%
Average Efficiency 5VSB	79.215%
Standby Power Consumption (W)	0.0915873
Average PF	0.964
Avg Noise Output	20.40 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	25	25	62.5	3	0.8
	Watts	150		750	15	9.6
Total Max. Power (W)		750				

HOLD-UP TIME & POWER OK SIGNAL (230V)

Hold-Up Time (ms)	29.8
AC Loss to PWR_OK Hold Up Time (ms)	28.8
PWR_OK Inactive to DC Loss Delay (ms)	11.0

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CABLES AND CONNECTORS

Modular Cables

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (600mm)	1	1	16-20AWG	Yes
4+4 pin EPS12V (650mm)	2	2	18AWG	Yes
6+2 pin PCIe (680mm+100mm)	2	4	16-18AWG	Yes
SATA (500mm+115mm+115mm+115mm)	2	8	18AWG	No
SATA (500mm+110mm+110mm+110mm)	2	8	18AWG	No
4 pin Molex (450mm+100mm+100mm+100mm)	1	4	18AWG	No
FDD Adapter (+100mm)	1	1	20AWG	No
AC Power Cord (1420mm) - C13 coupler	1	1	16AWG	-

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General Data	
Manufacturer (OEM)	CWT
Platform Model	Custom made for Corsair
Primary Side	
Transient Filter	6x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	NTC Thermistor & Diode
Bridge Rectifier(s)	2x
APFC MOSFETS	2x Infineon IPA50R140CP (550V, 15A @ 100°C, 0.14Ohm)
APFC Boost Diode	1x CREE C3D08060A (600V, 8A @ 152°C)
Hold-up Cap(s)	2x Chemi-Con (400V, 470uF & 390uF, 2000h @ 105°C, KMW)
Main Switchers	2x Infineon IPA50R140CP (550V, 15A @ 100°C, 0.14Ohm)
APFC Controller	Texas Instruments UCC28070 & CM03X
LLC Resonant Controller	Infineon ICE2HS01G
Topology	Primary side: Half-Bridge & LLC Resonant Controller Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETS	6x Infineon BSC014N04LS (40V, 100A @ 100°C, 1.4mOhm)
5V & 3.3V	DC-DC Converters: 3x Ubiq QM3004D (30V, 40A @ 100°C, 8.5mOhm), 3x Ubiq QM3006D (30V, 50A @ 100°C, 5.5mO PWM Controller: 1x APW7159C
Filtering Capacitors	Electrolytics: Nippon Chemi-Con (1-5,000 @ 105°C, KZE), Nippon Chemi-Con (4-10,000 @ 105°C, KY) Polymers: Nippon Chemi-Con, FPCAP
Supervisor IC	Weltrend WT7502 (OVP, UVP, PG, SCP), 2x Weltrend WT7518 (OCP, PG, SCP)
Fan Model	NR135P (135mm, 12V, 0.22A, Fluid Dynamic Bearing)
Fan Controller	Microchip PIC16F1503
5VSB Circuit	
Mosfet / Rectifier	1x ISD04N65A (650V, 4A, 2.5Ohm), 1x QM3004D (30V, 40A @ 100°C, 8.5mOhm), 1x MBRU2045CT SBR (45V, 20A @
Standby PWM Controller	On-Bright OB5269CP

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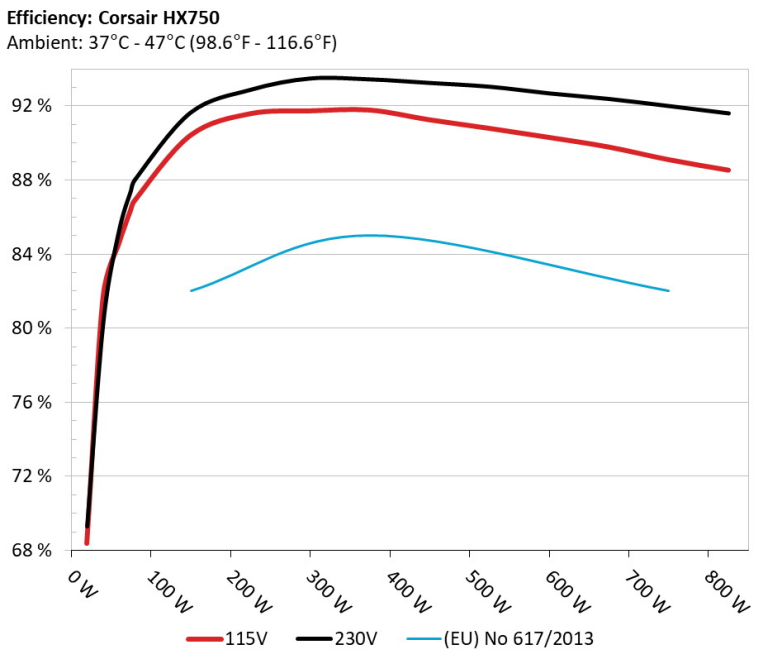
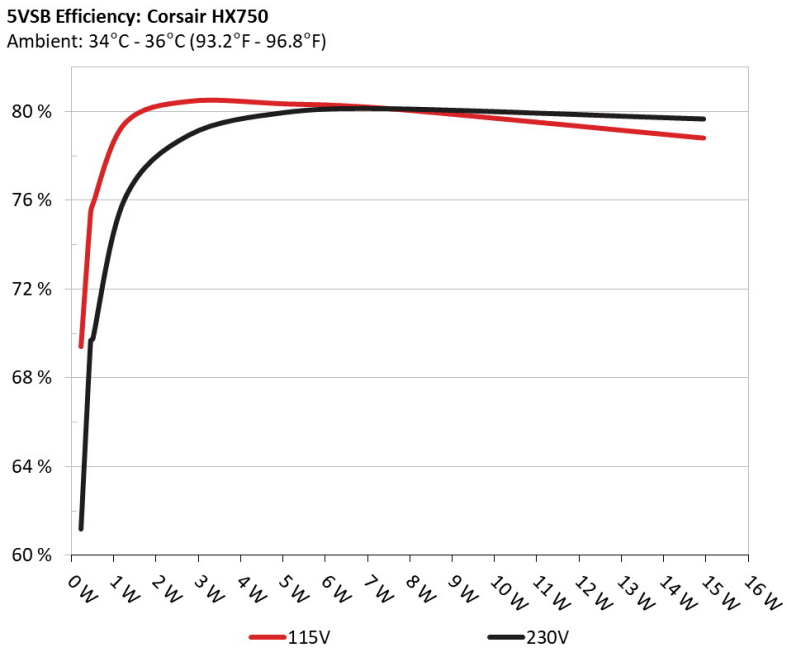
EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE



INFO

The PSU`s efficiency under high ambient temperatures with 115V and 230V input. For this graph the results of the 10-110% load regulation table are used

5VSB EFFICIENCY



INFO

This graph depicts the efficiency levels of the 5VSB rail with 115V and 230V input

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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.227	69.419%	0.024
	5.054V	0.327		115.28V
2	0.090A	0.455	75.456%	0.045
	5.053V	0.603		115.27V
3	0.550A	2.773	80.470%	0.224
	5.042V	3.446		115.26V
4	1.000A	5.031	80.355%	0.339
	5.031V	6.261		115.27V
5	1.500A	7.527	80.134%	0.415
	5.018V	9.393		115.26V
6	3.000A	14.939	78.813%	0.509
	4.980V	18.955		115.25V

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.227	61.186%	0.009
	5.053V	0.371		230.83V
2	0.090A	0.455	69.678%	0.016
	5.053V	0.653		230.83V
3	0.550A	2.773	78.935%	0.085
	5.042V	3.513		230.82V
4	1.000A	5.030	79.955%	0.145
	5.030V	6.291		230.82V
5	1.500A	7.527	80.126%	0.203
	5.018V	9.394		230.82V
6	3.000A	14.936	79.663%	0.325
	4.979V	18.749		230.81V

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Corsair HX750 (#2)

115V

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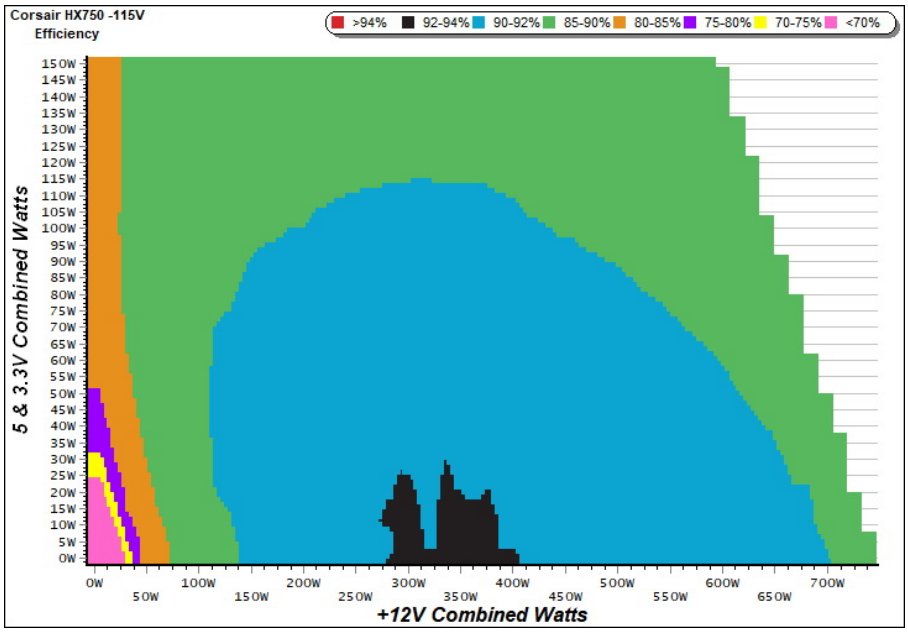
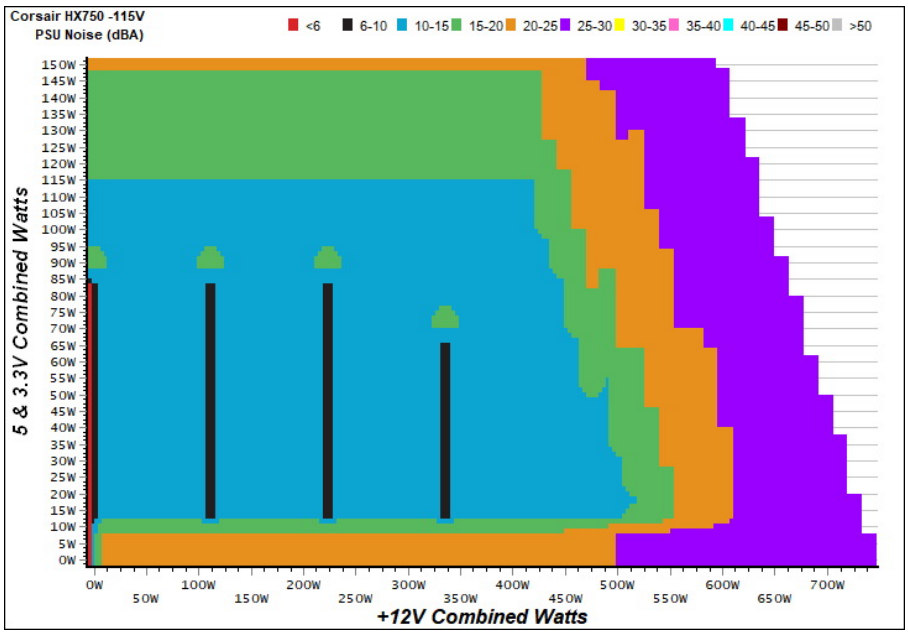
EFFICIENCY GRAPH 115V



INFO

This graph depicts the PSU's efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

NOISE GRAPH 115V



INFO

The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

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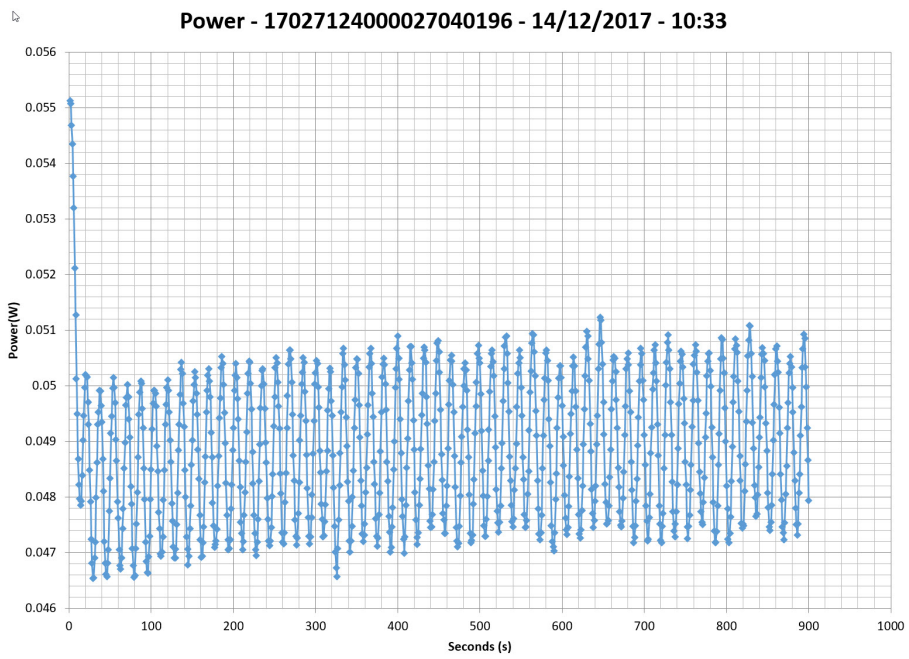
VAMPIRE POWER -115V



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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Corsair HX750 (#2)

10-110% LOAD TESTS 115V

Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
1	4.381A	1.984A	1.987A	0.996A	74.464	86.372%	0	<6.0	45.36°C	0.960
	12.065V	5.042V	3.323V	5.021V	86.213				38.04°C	115.28V
2	9.825A	2.976A	2.980A	1.196A	149.351	90.400%	0	<6.0	46.21°C	0.987
	12.056V	5.041V	3.322V	5.017V	165.211				38.66°C	115.17V
3	15.679A	3.473A	3.465A	1.397A	224.894	91.575%	0	<6.0	46.92°C	0.993
	12.047V	5.040V	3.320V	5.012V	245.585				38.94°C	115.08V
4	21.469A	3.970A	3.980A	1.598A	299.677	91.725%	0	<6.0	48.37°C	0.995
	12.039V	5.039V	3.318V	5.007V	326.714				39.83°C	115.07V
5	26.942A	4.964A	4.975A	1.800A	374.602	91.770%	0	<6.0	49.59°C	0.997
	12.029V	5.038V	3.317V	5.003V	408.196				40.95°C	114.96V
6	32.420A	5.956A	5.973A	2.001A	449.525	91.247%	730	13.1	41.04°C	0.997
	12.021V	5.037V	3.315V	4.999V	492.649				50.43°C	114.95V
7	37.936A	6.952A	6.973A	2.203A	524.849	90.783%	730	13.1	41.67°C	0.998
	12.013V	5.036V	3.314V	4.995V	578.136				51.50°C	114.83V
8	43.464A	7.947A	7.973A	2.405A	600.164	90.294%	870	20.2	42.09°C	0.998
	12.004V	5.035V	3.312V	4.991V	664.681				52.30°C	114.73V
9	49.368A	8.446A	8.458A	2.405A	674.683	89.777%	990	25.0	44.22°C	0.998
	11.995V	5.034V	3.310V	4.990V	751.509				54.84°C	114.71V
10	55.078A	8.945A	8.980A	3.017A	749.888	89.095%	1130	28.0	45.50°C	0.998
	11.986V	5.032V	3.308V	4.974V	841.671				56.29°C	114.58V
11	61.410A	8.947A	8.982A	3.018A	825.107	88.528%	1240	30.5	47.25°C	0.998
	11.975V	5.031V	3.307V	4.972V	932.029				59.07°C	114.47V
CL1	0.737A	18.004A	18.001A	0.000A	159.314	84.102%	870	20.2	44.93°C	0.989
	12.028V	5.037V	3.320V	5.087V	189.429				54.14°C	115.14V
CL2	62.512A	1.002A	1.001A	1.000A	763.200	89.672%	1140	28.6	45.60°C	0.998
	11.995V	5.035V	3.310V	5.009V	851.100				56.33°C	114.59V

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20-80W LOAD TESTS 115V

Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts
1	1.188A	0.495A	0.478A	0.199A	19.438	68.395%	0	<6.0	0.811
	12.079V	5.044V	3.325V	5.039V	28.420				115.35V
2	2.450A	0.992A	0.991A	0.397A	39.877	81.702%	0	<6.0	0.923
	12.074V	5.043V	3.324V	5.034V	48.808				115.33V
3	3.643A	1.487A	1.474A	0.597A	59.371	84.539%	0	<6.0	0.949
	12.070V	5.043V	3.324V	5.030V	70.229				115.29V
4	4.910A	1.983A	1.987A	0.796A	79.841	86.904%	0	<6.0	0.965
	12.065V	5.042V	3.323V	5.026V	91.873				115.27V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	2.4 mV	3.4 mV	3.0 mV	2.5 mV	Pass
20% Load	3.3 mV	3.7 mV	3.7 mV	3.1 mV	Pass
30% Load	4.1 mV	4.2 mV	4.0 mV	4.0 mV	Pass
40% Load	5.0 mV	4.6 mV	4.3 mV	4.7 mV	Pass
50% Load	6.3 mV	5.5 mV	4.9 mV	5.6 mV	Pass
60% Load	6.8 mV	6.3 mV	7.2 mV	6.7 mV	Pass
70% Load	5.7 mV	6.4 mV	7.6 mV	6.9 mV	Pass
80% Load	6.5 mV	7.6 mV	8.8 mV	8.0 mV	Pass
90% Load	6.8 mV	7.2 mV	9.2 mV	8.6 mV	Pass
100% Load	7.4 mV	8.5 mV	10.7 mV	10.1 mV	Pass
110% Load	7.6 mV	9.9 mV	10.1 mV	12.4 mV	Pass
Crossload 1	4.6 mV	7.5 mV	9.1 mV	5.5 mV	Pass
Crossload 2	7.3 mV	6.7 mV	7.9 mV	9.3 mV	Pass

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230V

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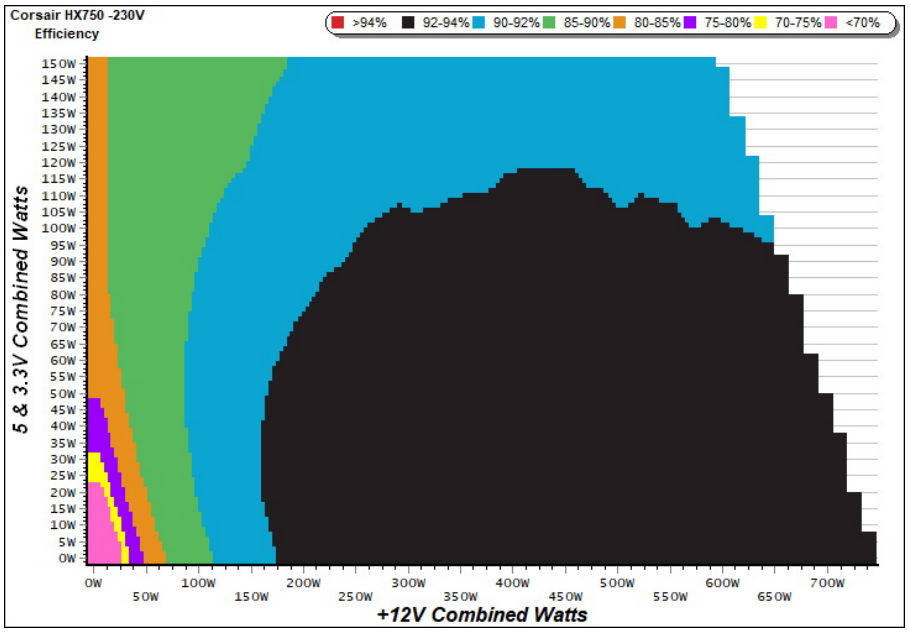
EFFICIENCY GRAPH 230V



INFO

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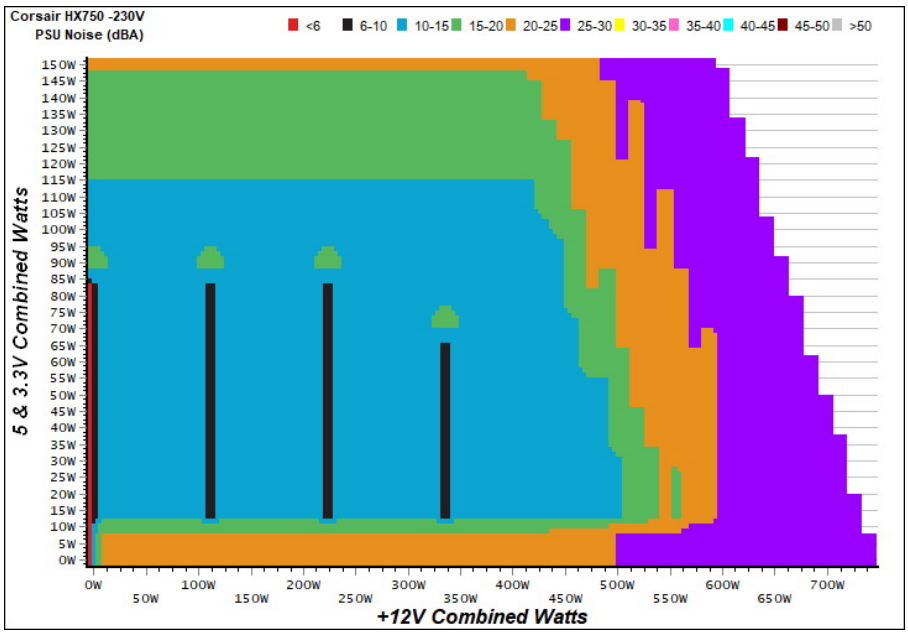
NOISE GRAPH 230V



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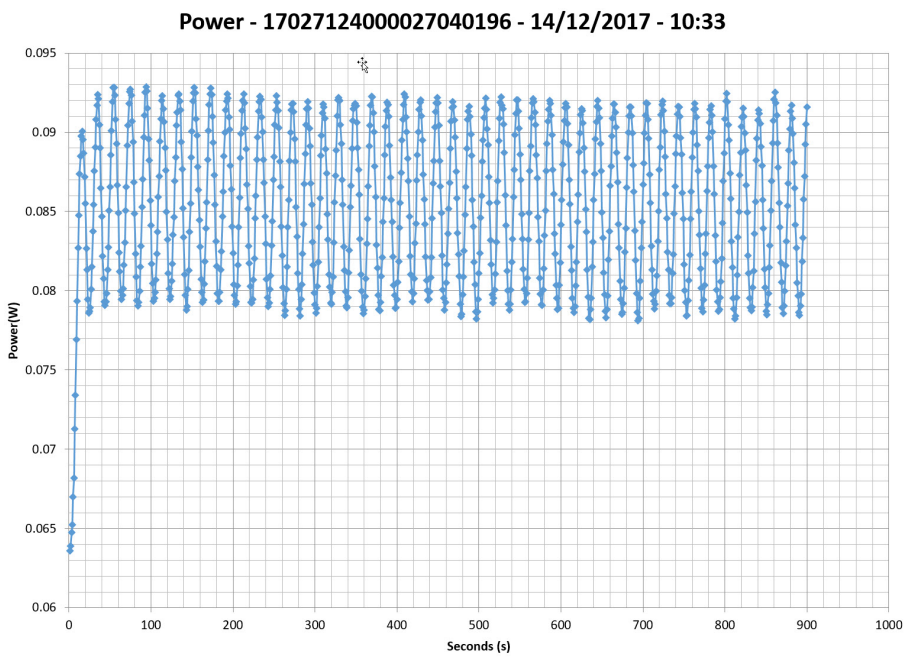
VAMPIRE POWER -230V



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10-110% LOAD TESTS 230V

Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
1	4.381A	1.982A	1.984A	0.996A	74.451	87.427%	0	<6.0	44.83°C	0.784
	12.066V	5.043V	3.324V	5.021V	85.158				38.32°C	230.80V
2	9.822A	2.976A	2.978A	1.196A	149.322	91.641%	0	<6.0	45.50°C	0.921
	12.057V	5.042V	3.322V	5.017V	162.943				38.70°C	230.68V
3	15.673A	3.471A	3.464A	1.397A	224.847	92.878%	0	<6.0	46.55°C	0.958
	12.049V	5.041V	3.321V	5.012V	242.089				38.85°C	230.78V
4	21.462A	3.968A	3.976A	1.598A	299.599	93.485%	0	<6.0	47.08°C	0.972
	12.040V	5.040V	3.319V	5.007V	320.479				39.01°C	230.55V
5	26.932A	4.962A	4.972A	1.799A	374.520	93.437%	0	<6.0	48.22°C	0.979
	12.031V	5.039V	3.318V	5.003V	400.828				39.46°C	230.66V
6	32.406A	5.954A	5.971A	2.001A	449.443	93.244%	730	13.1	40.28°C	0.986
	12.024V	5.037V	3.316V	4.999V	482.009				49.23°C	230.70V
7	37.924A	6.951A	6.971A	2.203A	524.769	93.040%	750	14.4	41.37°C	0.989
	12.015V	5.036V	3.314V	4.995V	564.026				50.53°C	230.48V
8	43.451A	7.946A	7.971A	2.405A	600.083	92.680%	855	20.1	42.36°C	0.991
	12.006V	5.035V	3.312V	4.991V	647.480				51.86°C	230.58V
9	49.354A	8.445A	8.461A	2.405A	674.618	92.380%	1030	25.4	43.36°C	0.993
	11.997V	5.034V	3.310V	4.990V	730.266				53.26°C	230.36V
10	55.065A	8.944A	8.978A	3.017A	749.832	91.999%	1140	28.6	45.29°C	0.994
	11.988V	5.032V	3.308V	4.974V	815.048				55.37°C	230.47V
11	61.391A	8.946A	8.982A	3.017A	825.056	91.603%	1280	32.2	46.35°C	0.995
	11.978V	5.031V	3.307V	4.973V	900.683				56.60°C	230.51V
CL1	0.736A	18.004A	17.998A	0.000A	159.293	84.905%	900	20.7	44.70°C	0.936
	12.029V	5.037V	3.320V	5.086V	187.614				52.09°C	230.90V
CL2	62.509A	1.000A	1.000A	1.000A	763.212	92.461%	1165	29.4	45.86°C	0.994
	11.996V	5.035V	3.310V	5.009V	825.445				55.00°C	230.46V

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› 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

Cybenetics offers the ETA and Lambda voluntary certification programs, through which the efficient and silent power supplies are promoted

www.cybenetics.com -info@cybenetics.com
CYBENETICS LTD
Syrou 6, Latsia, 2231, Nicosia Cyprus

Anex

Corsair HX750 (#2)

20-80W LOAD TESTS 230V

Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts
1	1.194A	0.496A	0.480A	0.199A	19.521	69.302%	0	<6.0	0.452
	12.077V	5.044V	3.325V	5.039V	28.168				230.85V
2	2.454A	0.992A	0.991A	0.397A	39.927	80.364%	0	<6.0	0.615
	12.074V	5.043V	3.325V	5.035V	49.683				230.65V
3	3.646A	1.487A	1.472A	0.597A	59.404	85.228%	0	<6.0	0.725
	12.070V	5.043V	3.324V	5.031V	69.700				230.63V
4	4.909A	1.983A	1.985A	0.796A	79.836	88.038%	0	<6.0	0.804
	12.067V	5.043V	3.324V	5.026V	90.684				230.79V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	3.4 mV	3.4 mV	3.0 mV	2.3 mV	Pass
20% Load	4.3 mV	3.9 mV	3.5 mV	2.7 mV	Pass
30% Load	5.3 mV	6.5 mV	6.8 mV	5.5 mV	Pass
40% Load	5.1 mV	4.7 mV	6.1 mV	4.2 mV	Pass
50% Load	5.1 mV	5.2 mV	5.1 mV	4.9 mV	Pass
60% Load	5.7 mV	6.2 mV	7.5 mV	6.7 mV	Pass
70% Load	6.2 mV	6.4 mV	7.7 mV	6.9 mV	Pass
80% Load	6.8 mV	7.1 mV	8.5 mV	7.6 mV	Pass
90% Load	7.3 mV	7.1 mV	9.0 mV	8.5 mV	Pass
100% Load	8.3 mV	8.2 mV	10.2 mV	9.6 mV	Pass
110% Load	9.1 mV	9.7 mV	10.3 mV	11.7 mV	Pass
Crossload 1	5.6 mV	7.3 mV	8.9 mV	5.0 mV	Pass
Crossload 2	8.0 mV	7.1 mV	8.6 mV	9.6 mV	Pass

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CYBENETICS LTD
Syrou 6, Latsia, 2231, Nicosia Cyprus

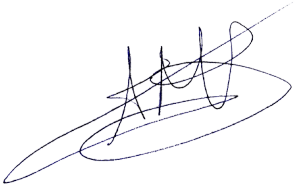
Anex

Corsair HX750 (#2)

Top side

Power specifications label

CERTIFICATIONS 115V



Aristeidis Bitziopoulos
Lab Director

CERTIFICATIONS 230V

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