Anex

XPG Core Reactor 750W (#2)

Lab ID#: AD75001629
Receipt Date: Mar 7, 2020
Test Date: Mar 27, 2020

Report: 20PS1629A
Report Date: Jun 1, 2020

DUT INFORMATION

Brand	XPG
Manufacturer (OEM)	Channel Well Technology
Series	Core Reactor Gold
Model Number	
Serial Number	4J3080248866
DUT Notes	

DUT SPECIFICATIONS

Rated Voltage (Vrms)	100-240
Rated Current (Arms)	10-5
Rated Frequency (Hz)	47-63
Rated Power (W)	750
Type	ATX12V
Cooling	120mm Fluid Dynamic Bearing Fan (HA1225H12F-Z)
Semi-Passive Operation	✗
Cable Design	Fully Modular

TEST EQUIPMENT

Electronic Loads	Chroma 63601-5 x4 Chroma 63600-2 x2 63640-80-80 x20 63610-80-20 x2
AC Sources	Chroma 6530, Keysight AC6804B
Power Analyzers	N4L PPA1530 x2
Sound Analyzer	Bruel & Kjaer 2270 G4
Microphone	Bruel & Kjaer Type 4955-A
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2
Tachometer	UNI-T UT372 x2
Digital Multimeter	Keysight U1273AX, Fluke 289, Keithley 2015 - THD
UPS	CyberPower OLS3000E 3kVA x2
Transformer	3kVA 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	✓
ALPM (Alternative Low Power Mode) compatible	✓

115V

Average Efficiency	88.766%
Efficiency With 10W (≤500W) or 2% (>500W)	73.449
Average Efficiency 5VSB	79.178%
Standby Power Consumption (W)	0.0325927
Average PF	0.987
Avg Noise Output	26.12 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	A-

230V

Average Efficiency	90.883%
Average Efficiency 5VSB	78.845%
Standby Power Consumption (W)	0.0470797
Average PF	0.957
Avg Noise Output	25.05 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	A-

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	22	22	62.5	3	0.3
	Watts	120		750	15	3.6
Total Max. Power (W)		750				

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

Hold-Up Time (ms)	21.1
AC Loss to PWR_OK Hold Up Time (ms)	18.3
PWR_OK Inactive to DC Loss Delay (ms)	2.8

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CABLES AND CONNECTORS

Modular Cables

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (650mm)	1	1	16-20AWG	No
4+4 pin EPS12V (650mm)	2	2	16AWG	No
6+2 pin PCIe (650mm+150mm)	2	4	16-18AWG	No
6+2 pin PCIe (650mm)	2	2	16AWG	No
SATA (500mm+145mm+145mm+145mm)	3	12	18AWG	No
4-pin Molex (500mm+150mm+150mm+150mm)	1	4	18AWG	No
AC Power Cord (1400mm) - C13 coupler	1	1	18AWG	-

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General Data	-
Manufacturer (OEM)	CWT
PCB Type	Double Sided
Primary Side	-
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	NTC Thermistor & Relay
Bridge Rectifier(s)	2x GBU1506 (600V, 15A @ 100°C)
APFC MOSFETs	2x On Semiconductor FCPF165N65S3L1 (650V, 12.3A @ 100°C, 0.165Ohm) &1x SPN5003 FET (for reduced no-load consumption)
APFC Boost Diode	1x Power Integrations QH08TZ600 (600V, 8A @ 95°C)
Hold-up Cap(s)	1x Nippon Chemi-Con (420V, 560uF, 2,000h @ 105°C, KMR)
Main Switchers	2x On Semiconductor FCPF165N65S3L1 (650V, 12.3A @ 100°C, 0.165Ohm)
APFC Controller	Champion CM6500UNX
Resonant Controller	Champion CU6901V
Topology	Primary side: Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	-
+12V MOSFETs	6x International Rectifier IRFH7004PBF (40V, 164A @ 100°C, 1.4mOhm)
5V & 3.3V	DC-DC Converters: 2x Excelliance Mos Corp EMB04N03HR (30V, 45A @ 100°C, 4mOhm) & 2x Excelliance Mos Corp EMB02N03HR (30V, 100A @ 100°C, 1.7mOhm) PWM Controllers: ANPEC APW7159C
Filtering Capacitors	Electrolytic: 8x Nippon Chemi-Con (4-10,000h @ 105°C, KY),1x Nippon Chemi-Con (1-5,000h @ 105°C, KZE), 2x Nichicon (2-5,000h @ 105°C, HD), 1x Nichicon (1,000h @ 105°C, VY) Polymer: 19x FPCAP, 6x United Chemi-Con
Supervisor IC	IN1S313I-SAG
Fan Model	Hang Hua HA1225H12F-Z (120mm, 12V, 0.58A, Fluid Dynamic Bearing Fan)
5VSB Circuit	-
Rectifier	Silan Microelectronics SVF4N65RDTR FET (650V, 2.5A @ 100°C, 2.7Ohm) & 1x PS1045L SBR (45V, 10A)
Standby PWM Controller	On-Bright OB5282CP

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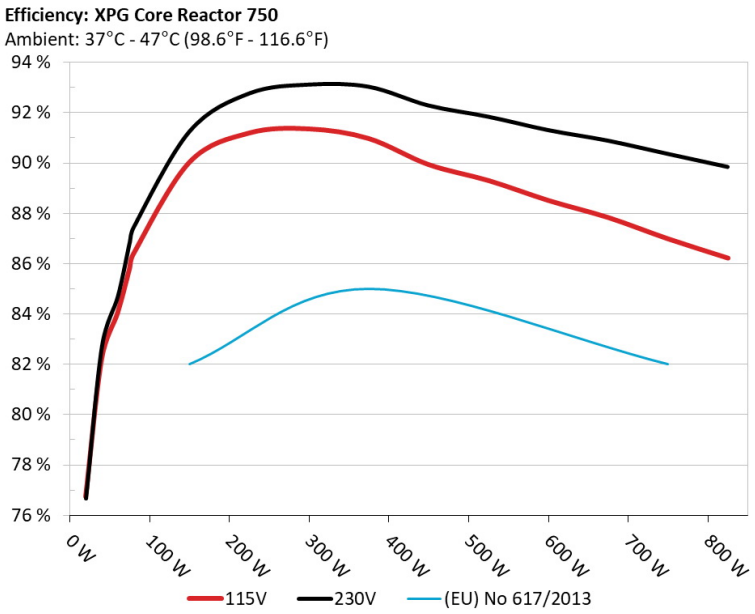
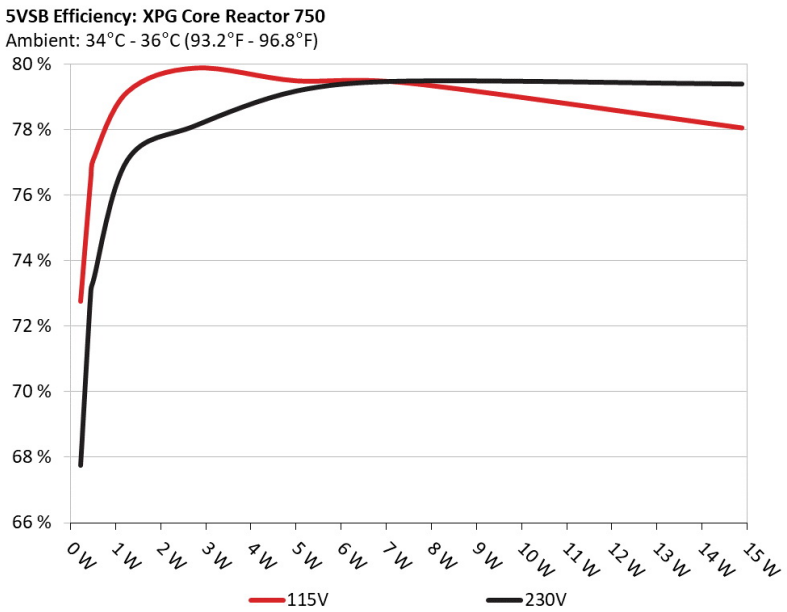
EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE



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	72.756%	0.032
	5.038V	0.312		115.14V
2	0.090A	0.453	76.520%	0.059
	5.037V	0.592		115.14V
3	0.550A	2.765	79.867%	0.264
	5.026V	3.462		115.14V
4	1.000A	5.015	79.477%	0.359
	5.014V	6.310		115.15V
5	1.500A	7.504	79.407%	0.412
	5.002V	9.450		115.15V
6	3.000A	14.889	78.043%	0.481
	4.963V	19.078		115.14V

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.227	67.761%	0.010
	5.038V	0.335		230.30V
2	0.090A	0.453	73.065%	0.019
	5.037V	0.620		230.32V
3	0.550A	2.764	78.101%	0.102
	5.025V	3.539		230.32V
4	1.000A	5.015	79.163%	0.169
	5.014V	6.335		230.31V
5	1.500A	7.503	79.464%	0.227
	5.001V	9.442		230.31V
6	3.000A	14.888	79.373%	0.331
	4.962V	18.757		230.30V

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XPG Core Reactor 750W (#2)

115V

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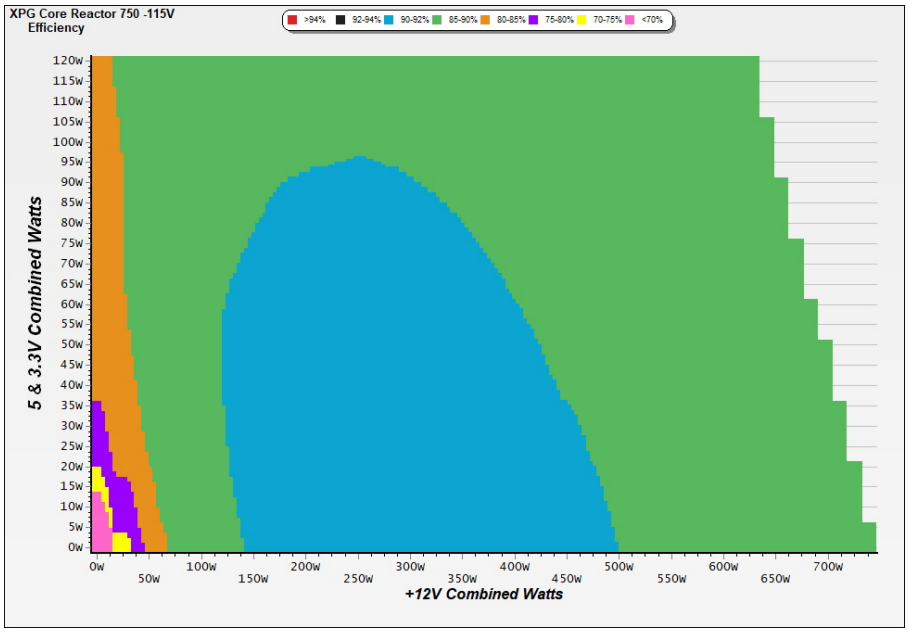
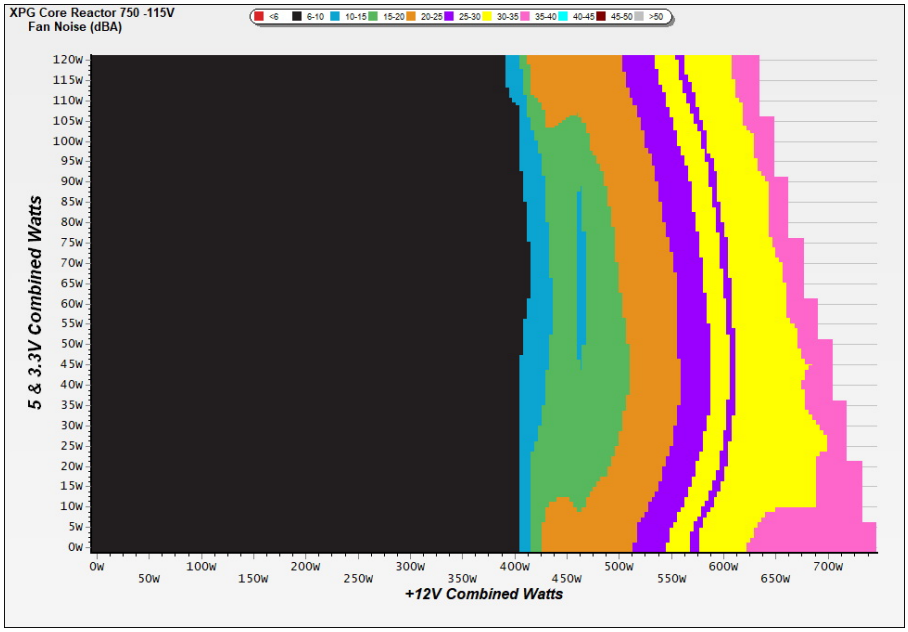
EFFICIENCY GRAPH 115V



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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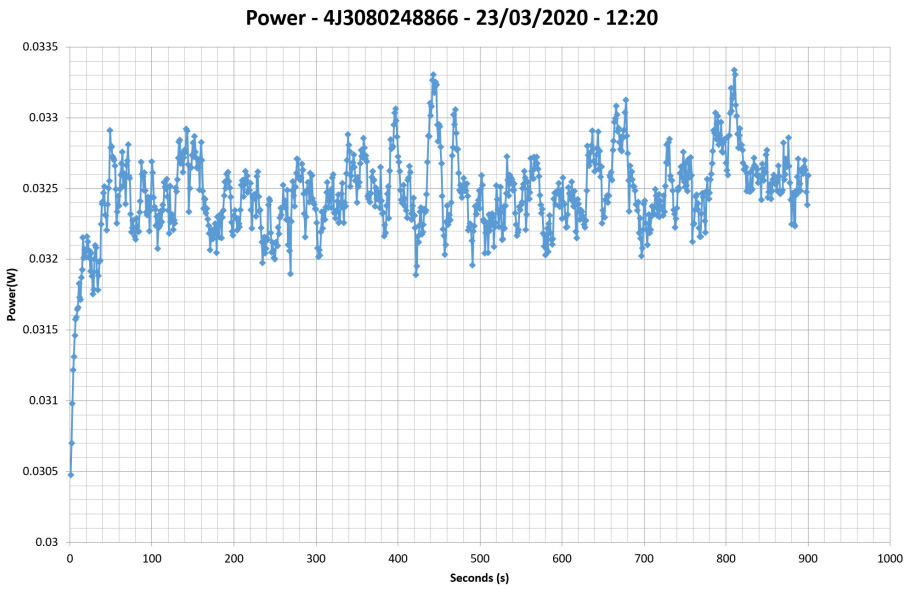
VAMPIRE POWER -115V



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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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	4.378A	1.970A	1.985A	0.989A	74.965	85.796%	679	10.7	41.13°C	0.973
	12.189V	5.077V	3.323V	5.059V	87.376				44.32°C	115.16V
2	9.852A	2.957A	2.981A	1.188A	150.047	90.024%	682	10.8	41.54°C	0.988
	12.093V	5.074V	3.321V	5.053V	166.675				45.25°C	115.15V
3	15.652A	3.452A	3.479A	1.388A	225.053	91.190%	683	10.8	41.95°C	0.991
	12.075V	5.071V	3.319V	5.046V	246.796				46.27°C	115.15V
4	21.419A	3.947A	3.980A	1.588A	300.066	91.353%	686	10.9	42.48°C	0.990
	12.085V	5.069V	3.318V	5.041V	328.468				47.45°C	115.11V
5	26.692A	4.938A	4.978A	1.788A	374.693	90.969%	688	11.0	42.80°C	0.990
	12.145V	5.065V	3.316V	5.034V	411.892				48.53°C	115.10V
6	32.085A	5.928A	5.977A	1.989A	449.624	89.937%	1311	29.6	43.13°C	0.991
	12.149V	5.063V	3.314V	5.029V	499.932				49.50°C	115.10V
7	37.542A	6.922A	6.977A	2.191A	524.965	89.299%	1497	32.2	43.81°C	0.991
	12.142V	5.059V	3.312V	5.022V	587.876				50.78°C	115.10V
8	42.998A	7.916A	7.980A	2.393A	600.291	88.504%	1814	38.8	44.21°C	0.992
	12.137V	5.055V	3.309V	5.016V	678.266				51.95°C	115.10V
9	48.814A	8.416A	8.465A	2.394A	674.833	87.830%	2097	42.6	44.76°C	0.993
	12.134V	5.052V	3.308V	5.014V	768.338				52.98°C	115.09V
10	54.435A	8.915A	8.984A	3.002A	750.073	86.982%	2330	47.0	45.12°C	0.993
	12.131V	5.050V	3.306V	4.997V	862.332				54.35°C	115.08V
11	60.642A	8.918A	8.985A	3.003A	825.304	86.215%	2378	48.3	46.65°C	0.994
	12.130V	5.048V	3.305V	4.996V	957.259				56.55°C	115.08V
CL1	0.120A	14.003A	14.001A	0.000A	118.721	83.400%	1180	26.4	42.86°C	0.984
	12.111V	5.064V	3.311V	5.093V	142.352				48.28°C	115.16V
CL2	62.534A	0.999A	1.000A	1.000A	772.324	87.434%	2275	45.3	44.70°C	0.993
	12.136V	5.060V	3.315V	5.042V	883.322				54.22°C	115.10V

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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	1.238A	0.492A	0.496A	0.197A	19.995	76.736%	661	10.1	0.860
	11.991V	5.080V	3.325V	5.078V	26.057				115.16V
2	2.474A	0.982A	0.993A	0.394A	39.985	82.201%	668	10.4	0.945
	12.004V	5.079V	3.324V	5.073V	48.643				115.16V
3	3.657A	1.476A	1.490A	0.592A	60.015	84.036%	673	10.5	0.965
	12.187V	5.078V	3.323V	5.068V	71.416				115.16V
4	4.871A	1.969A	1.986A	0.790A	79.964	86.386%	677	10.6	0.973
	12.188V	5.077V	3.323V	5.064V	92.566				115.16V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	4.60mV	4.50mV	12.20mV	5.30mV	Pass
20% Load	13.70mV	4.90mV	13.10mV	5.20mV	Pass
30% Load	8.40mV	5.00mV	13.40mV	5.60mV	Pass
40% Load	8.20mV	5.60mV	14.40mV	5.70mV	Pass
50% Load	8.10mV	5.90mV	14.70mV	6.30mV	Pass
60% Load	8.60mV	5.90mV	16.10mV	6.10mV	Pass
70% Load	9.30mV	6.50mV	16.80mV	6.90mV	Pass
80% Load	10.10mV	7.40mV	21.50mV	7.30mV	Pass
90% Load	11.00mV	7.40mV	22.00mV	7.30mV	Pass
100% Load	13.50mV	8.40mV	23.10mV	8.70mV	Pass
110% Load	14.10mV	8.90mV	24.10mV	8.80mV	Pass
Crossload1	7.10mV	6.60mV	20.80mV	5.90mV	Pass
Crossload2	14.00mV	7.70mV	19.20mV	8.20mV	Pass

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230V

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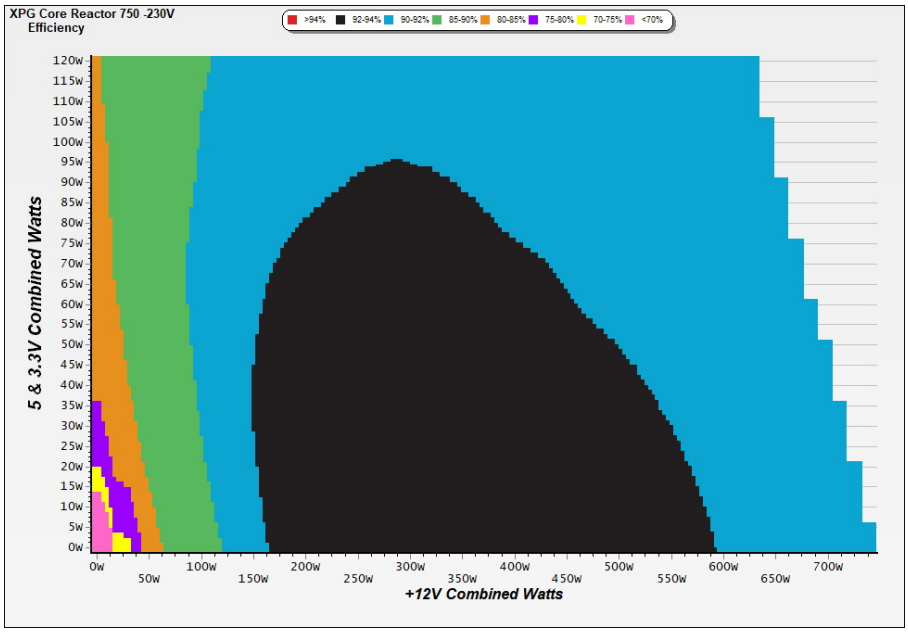
EFFICIENCY GRAPH 230V



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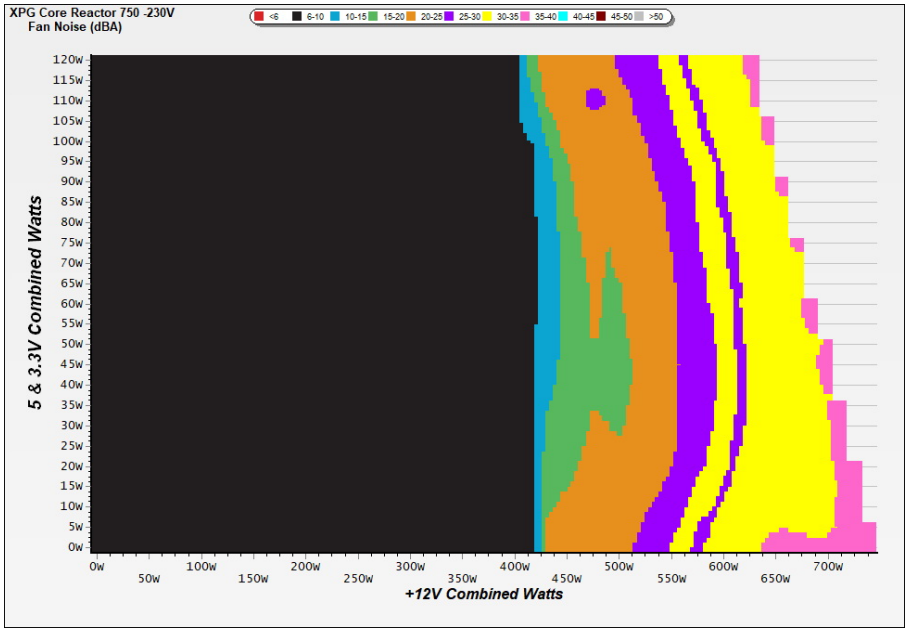
NOISE GRAPH 230V



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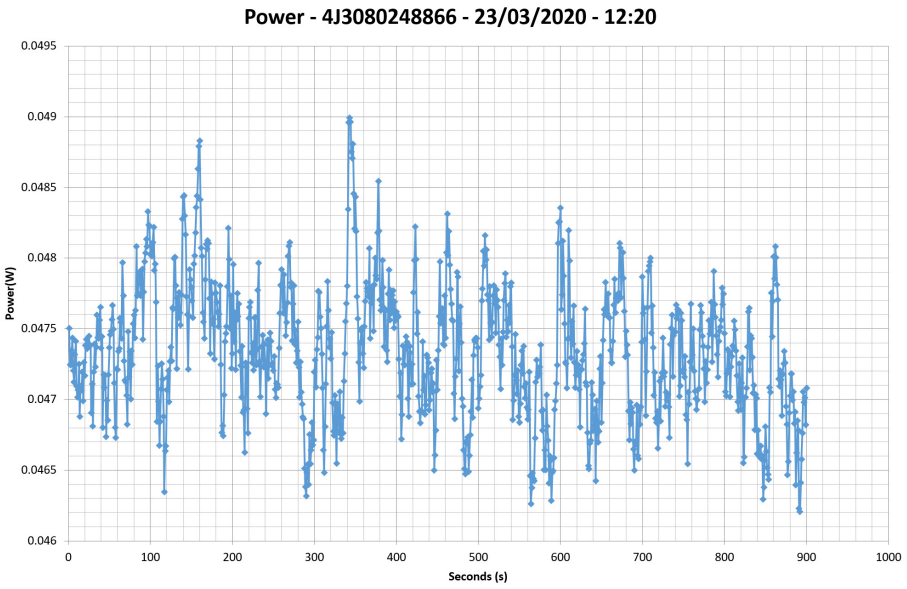
VAMPIRE POWER -230V



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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	4.379A	1.970A	1.986A	0.989A	74.960	86.874%	673	10.5	40.59°C	0.835
	12.185V	5.077V	3.322V	5.059V	86.286				43.54°C	230.32V
2	9.853A	2.957A	2.982A	1.188A	150.031	91.275%	677	10.6	40.75°C	0.929
	12.090V	5.074V	3.320V	5.053V	164.373				44.48°C	230.32V
3	15.651A	3.452A	3.482A	1.387A	225.035	92.781%	680	10.7	41.57°C	0.958
	12.074V	5.072V	3.319V	5.047V	242.545				45.56°C	230.32V
4	21.420A	3.947A	3.978A	1.587A	300.039	93.129%	682	10.7	41.74°C	0.968
	12.084V	5.069V	3.317V	5.040V	322.174				46.20°C	230.32V
5	26.685A	4.937A	4.978A	1.788A	374.606	93.043%	684	10.8	42.64°C	0.975
	12.145V	5.066V	3.315V	5.035V	402.615				47.85°C	230.32V
6	32.089A	5.927A	5.980A	1.989A	449.511	92.299%	1264	28.3	42.71°C	0.980
	12.144V	5.063V	3.313V	5.029V	487.018				48.40°C	230.32V
7	37.543A	6.918A	6.978A	2.191A	524.842	91.851%	1383	31.0	43.17°C	0.983
	12.139V	5.059V	3.311V	5.023V	571.405				49.39°C	230.31V
8	42.999A	7.915A	7.977A	2.393A	600.167	91.317%	1880	39.7	43.84°C	0.984
	12.134V	5.056V	3.309V	5.016V	657.237				50.62°C	230.31V
9	48.817A	8.412A	8.464A	2.394A	674.701	90.901%	2034	42.2	44.27°C	0.985
	12.131V	5.053V	3.307V	5.015V	742.236				51.66°C	230.31V
10	54.460A	8.912A	8.986A	3.002A	749.872	90.373%	2198	43.6	44.76°C	0.986
	12.122V	5.050V	3.305V	4.998V	829.752				53.14°C	230.29V
11	60.643A	8.915A	8.988A	3.003A	825.129	89.857%	2374	48.2	47.01°C	0.987
	12.127V	5.049V	3.304V	4.996V	918.266				56.69°C	230.29V
CL1	0.118A	14.003A	14.000A	0.000A	118.736	84.998%	710	11.7	42.24°C	0.917
	12.105V	5.067V	3.311V	5.094V	139.693				47.90°C	230.34V
CL2	62.521A	1.001A	1.000A	1.000A	771.802	90.851%	2157	43.3	44.64°C	0.986
	12.130V	5.060V	3.315V	5.042V	849.526				53.39°C	230.30V

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

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Anex

XPG Core Reactor 750W (#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	1.238A	0.492A	0.496A	0.197A	19.993	76.666%	660	10.1	0.485
	11.990V	5.080V	3.324V	5.078V	26.078				230.31V
2	2.473A	0.984A	0.993A	0.395A	39.981	82.710%	664	10.2	0.681
	12.002V	5.078V	3.323V	5.072V	48.339				230.33V
3	3.658A	1.478A	1.488A	0.592A	60.011	84.704%	668	10.4	0.797
	12.182V	5.077V	3.323V	5.068V	70.848				230.33V
4	4.872A	1.970A	1.987A	0.790A	79.959	87.468%	671	10.4	0.845
	12.183V	5.077V	3.322V	5.063V	91.415				230.33V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	4.90mV	4.80mV	14.40mV	5.80mV	Pass
20% Load	15.20mV	5.20mV	14.50mV	5.80mV	Pass
30% Load	9.30mV	5.20mV	15.90mV	5.70mV	Pass
40% Load	8.80mV	5.70mV	16.00mV	6.00mV	Pass
50% Load	8.30mV	6.30mV	17.80mV	6.50mV	Pass
60% Load	8.80mV	6.40mV	17.10mV	6.90mV	Pass
70% Load	9.30mV	6.90mV	18.60mV	7.90mV	Pass
80% Load	9.70mV	7.60mV	23.70mV	7.80mV	Pass
90% Load	10.30mV	7.80mV	23.70mV	7.80mV	Pass
100% Load	14.10mV	8.40mV	24.00mV	8.90mV	Pass
110% Load	15.40mV	8.80mV	24.60mV	9.10mV	Pass
Crossload1	6.30mV	6.30mV	20.00mV	6.10mV	Pass
Crossload2	14.50mV	8.30mV	20.90mV	8.50mV	Pass

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Anex

XPG Core Reactor 750W (#2)

Top side

Power specifications label

CERTIFICATIONS 115V

CERTIFICATIONS 230V

Aristeidis Bitziopoulos
Lab Director

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