XPG Cybercore 1000 Platinum

Serial Number 4L4380000759

Lab ID AD10001994

Certification ID 251994

Test Result Report ID: 22PS1994A

Certificate Issue Date: Mar 28, 2022

Scheme: ETA-EMI PSU

115V



230V



115V



230V



Scheme: LAMBDA PSU



Aristeidis Bitziopoulos, Certification Body General Manager

General Information

Test Equipment

Electronic Loads	Chroma 63601-5 x2 Chroma 63600-2 Chroma 63640-80-80 x10 Chroma 63610-80-20
AC Sources	Chroma 6530, APM SP300VAC4000W-P, GW Instek ASR-3500
Power Analyzers	Rohde & Schwarz HMC8015 & NPA701
Oscilloscopes	Picoscope 4444, Siglent SDS2104X PLUS
Sound Analyzer	Bruel & Kjaer 2270 G4
Microphone	Bruel & Kjaer Type 4955-A
Temperature Logger	Picoscope TC-08
Tachometer	UNI-T UT372
Multimeters	Keysight 34465A
EMI Analyzer	TekBox TBMR-110M-EU
Isolation Transformer	4kVA
UPS	FSP Champ Tower 3kVA, CyberPower OLS3000E 3kVA
Testing Methodology	Cybenetics PSU Test Protocol

DUT Information
(Non-accredited measurements)

Product Identification Details	
Brand	XPG
Model	Cybercore 1000 Platinum
OEM/ODM	CWT
Serial Number	4L4380000759
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	13

Rated Frequency (Hz)	50-60
Rated Power (W)	1000
Operating Temperature (Continuous Full Load) (°C)	
Type	ATX12V
Cable Design	Fully Modular
Warranty	-
Cybenetics Measurements	
Dimensions (W x H x D)	
Weight	
Cooling	120mm Double Ball Bearing Fan (D1225C12B6ZPAC7)
Semi-Passive Operation	✓
Cybenetics Testing Information	
Lab ID	AD10001994
Date of receipt	Feb 9, 2022
Testing Date	Mar 28, 2022
Report Issued Date	Mar 28, 2022
Engineer Name	-
Authorized By the Laboratory Technical Manager	Aristeidis Bitziopoulos
Signature	

Cables and Connectors
(Non-accredited measurements)

Modular Cables				
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (750mm)	1	1	16-18AWG	No
4+4 pin EPS12V (750mm)	2	2	16AWG	No
6+2 pin PCIe (750mm)	2	2	16AWG	No
6+2 pin PCIe (750mm+150mm)	2	4	16-18AWG	No
SATA (600mm+150mm+150mm+150mm)	3	12	18AWG	No

4-pin Molex (600mm+150mm+150mm+150mm)	1	4	18AWG	No
FDD Adapter (150mm)	1	1	20AWG	No

Power Specifications

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	22	22	83.33	3	0.3
	Watts	120		1000	15	3.6
Total Max. Power (W)		1000				

Parts Description

General Data	-
Manufacturer (OEM)	CWT
PCB Type	Double Sided
Primary Side	-
Transient Filter	6x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	NTC Thermistor SCK207R0 (7 Ohm) & Relay
Bridge Rectifier(s)	2x Vishay LVB2560 (600V, 25A @ 105°C)
APFC MOSFETs	2x Infineon IPA60R099P6 (600V, 24A @ 100°C, Rds(on): 0.099Ohm) & 1x Sync Power SPN5003 FET (for reduced no-load consumption)
APFC Boost Diode	2x Infineon IDH08G65C6 (650V, 8A @ 145°C)
Bulk Cap(s)	1x Nippon Chemi-Con (400V, 680uF, 2,000h @ 105°C, KMW) & 1x Nippon Chemi-Con (400V, 560uF, 2,000h @ 105°C, KMR)
Main Switchers	4x Alpha & Omega AOTF29S50 (500V, 18A @ 100°C, Rds(on): 0.15Ohm)
IC Driver	2x Silicon Labs Si8233BD & 1x On Semiconductor NCP81071
APFC MCU	1x Texas Instrument UCD3138A
LLC Resonant MCU	1x Texas Instrument UCD3138A
Topology	Primary side: Semi-Digital, Interleaved PFC, Full-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	-
+12V MOSFETs	8x Infineon BSC016N06NS (60V, 143A @ 100°C, Rds(on): 1.6mOhm)
5V & 3.3V	DC-DC Converters

Filtering Capacitors	Electrolytic: 4x Nippon Chemi-Con (105°C,W), 2x Nippon Chemi-Con (2-5,000h @ 105°C, KZE), 4x Nippon Chemi-Con (4-10,000h @ 105°C, KY), 2x Rubycon (6-10,000h @ 105°C, ZLH), 1x Rubycon (4-10,000h @ 105°C, YXJ), 1x Rubycon (4-10,000h @ 105°C, YXF) Polymer: 29x FPCAP, 4x Nippon Chemi-Con
Supervisor IC	Weltrend WT7502R (OVP, UVP, SCP, PG)
Fan Model	XPG Nidec D1225C12B6ZPAC7 (120mm, 12V, 0.13A, Double Ball Bearing Fan)
5VSB Circuit	-
Rectifier	1x PS1045L (45V, 10A) SBR & 1x IPS ISD04N65A FET
Standby PWM Controller	On-Bright OB5282

Test Results

Temperature & Compliance Info

Temperature Range (°C /°F)	28-32 / 82.4-89.6
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓
ALPM (Alternative Low Power Mode) compatible	✓

Performance Summary

115V

Accredited	
Average Efficiency (>1450 load combinations)	89.303%
Average Noise Output (>1450 Load Combinations)	29.82dBA
Average PF (>1450 Load Combinations)	0.981
Efficiency With 10W (≤500W) or 2% (>500W) Load	66.799%
Standby Power Consumption	0.0455W
Non-Accredited	
12V Ripple (Full Load)	24.52mV
5V Ripple (Full Load)	11.81mV
3.3V Ripple (Full Load)	25.00mV

5VSB Ripple (Full Load)	10.74mV
12V Load Regulation	1.30%
5V Load Regulation	0.70%
3.3V Load Regulation	0.79%
5VSB Load Regulation	1.71%
Inrush Current	26.670A

230V

Accredited		
Average Efficiency (>1450 load combinations)		91.165%
Average Noise Output (>1450 Load Combinations)		29.85dBA
Average PF (>1450 Load Combinations)		0.947
Efficiency With 10W (≤500W) or 2% (>500W) Load		-
Standby Power Consumption		0.0869W
Non-Accredited		
12V Ripple (Full Load)		25.58mV
5V Ripple (Full Load)		10.62mV
3.3V Ripple (Full Load)		22.05mV
5VSB Ripple (Full Load)		9.53mV
12V Load Regulation		1.49%
5V Load Regulation		0.92%
3.3V Load Regulation		0.85%
5VSB Load Regulation		1.75%
Inrush Current		51.950A
Hold-Up Time & PWR_OK Signal		19.60ms
AC Loss to PWR_OK Hold Up Time		17.60ms
PWR_OK Inactive to DC Loss Delay		2.00ms
PSU Timings: T1 (20% / 100%)	55.0ms	50.0ms
PSU Timings: T3 (20% / 100%)	139.0ms	141.0ms
OPP (23.48°C / 37.27°C)	122.33%	122.34%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	19.6
AC Loss to PWR_OK Hold Up Time (ms)	17.6
PWR_OK Inactive to DC Loss Delay (ms)	2

Vampire Power

Tables

115V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.14 V	115.13 V	113.85 V	115.16 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	60.00 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.415	1.415	1.340	1.416	1.490	PASS
Mains Voltage THD:	0.13 %	0.11 %	N/A	0.15 %	2.00 %	PASS
Real Power:	0.045 W	0.041 W	N/A	0.049 W	N/A	N/A
Apparent Power:	12.520 W	12.517 W	N/A	12.523 W	N/A	N/A
Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A

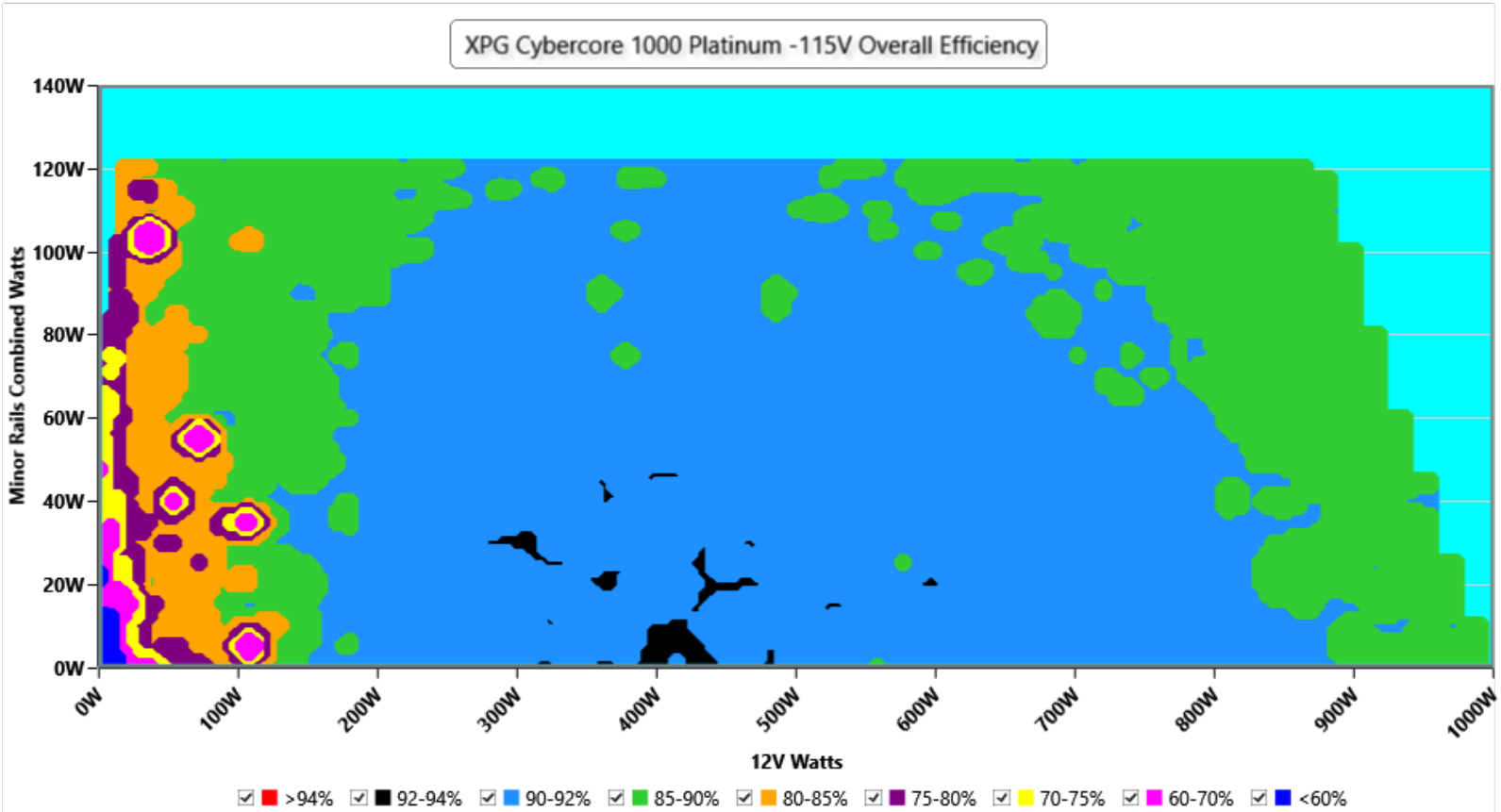
230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.37 V	230.34 V	227.70 V	230.37 V	232.30 V	PASS
Mains Frequency:	50.00 Hz	50.00 Hz	49.50 Hz	50.01 Hz	50.50 Hz	PASS
Mains Voltage CF:	1.415	1.415	1.340	1.416	1.490	PASS
Mains Voltage THD:	0.14 %	0.13 %	N/A	0.16 %	2.00 %	PASS
Real Power:	0.087 W	0.079 W	N/A	0.095 W	N/A	N/A
Apparent Power:	41.814 W	41.810 W	N/A	41.822 W	N/A	N/A

Power Factor:	0.002	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

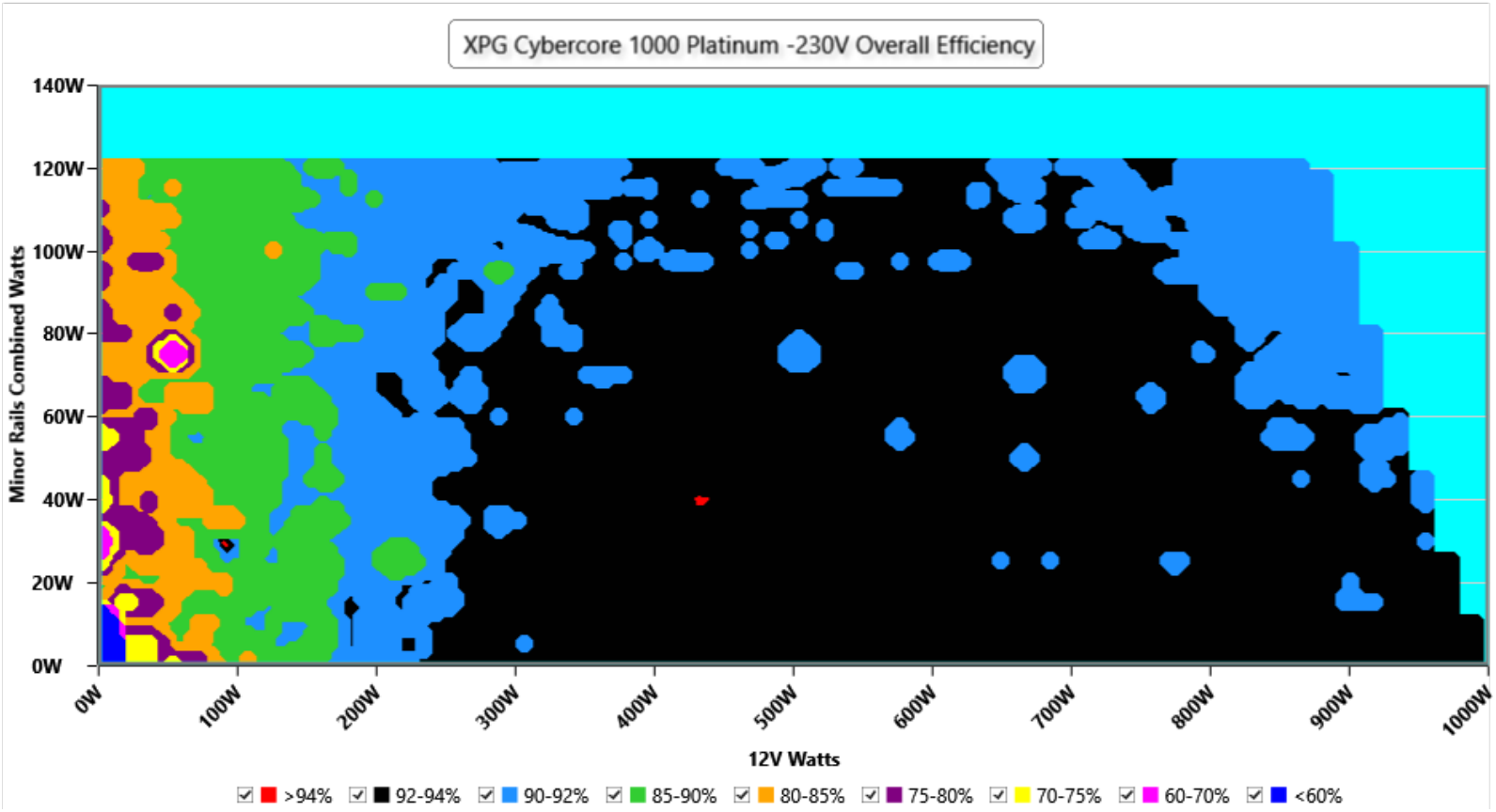
115V



INFO

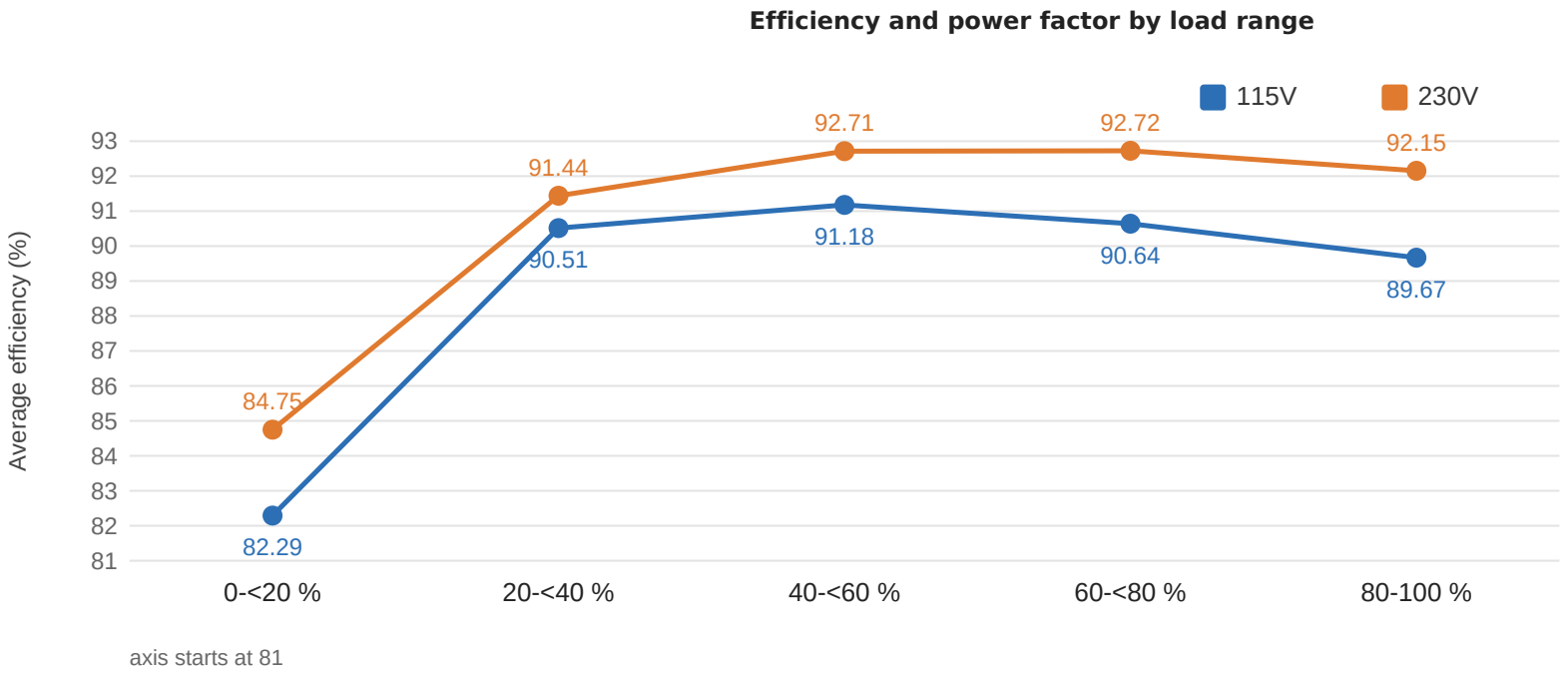
This graph depicts the PSU`s efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

230V

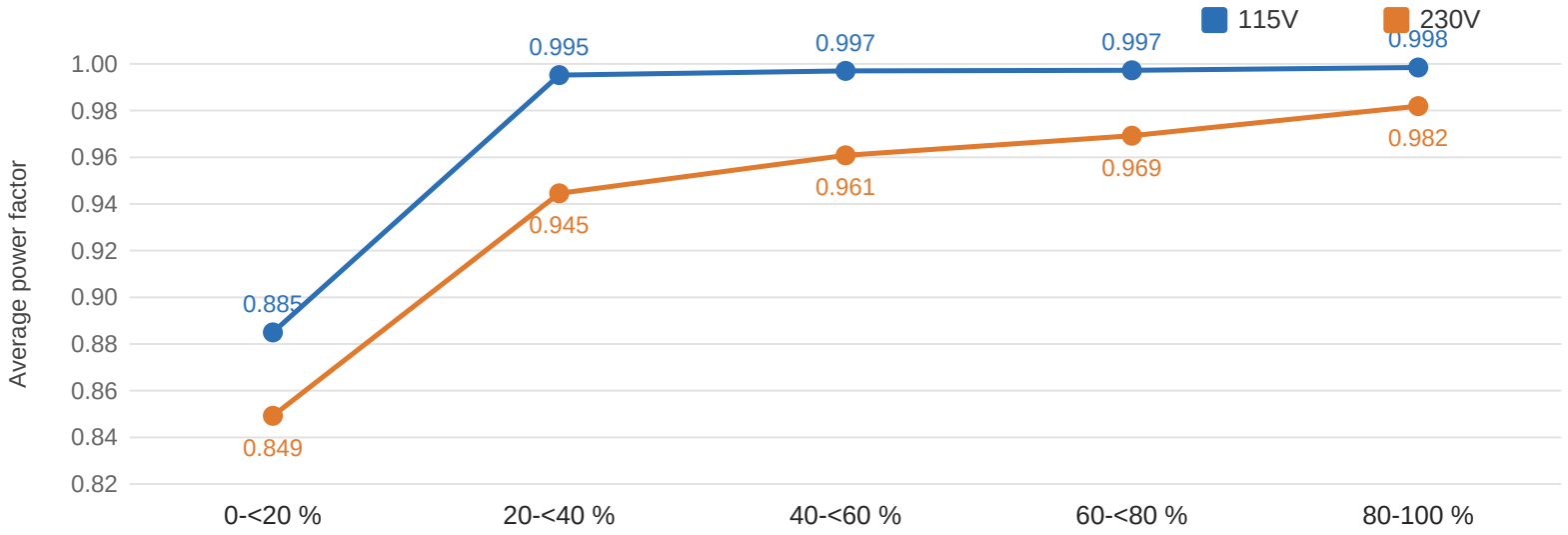


INFO

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



axis starts at 81



axis starts at 0.82

Load range	Points	Efficiency 115V	Efficiency 230V	PF 115V	PF 230V
0-<20 %	228 / 228	82.29%	84.75%	0.885	0.849
20-<40 %	335 / 335	90.51%	91.44%	0.995	0.945
40-<60 %	333 / 333	91.18%	92.71%	0.997	0.961
60-<80 %	333 / 333	90.64%	92.72%	0.997	0.969
80-100 %	340 / 340	89.67%	92.15%	0.998	0.982
70-100 % (High-Load)	506 / 506	89.94%	92.32%	0.998	0.979
All (published average)	1569 / 1569	89.30%	91.16%	0.981	0.947

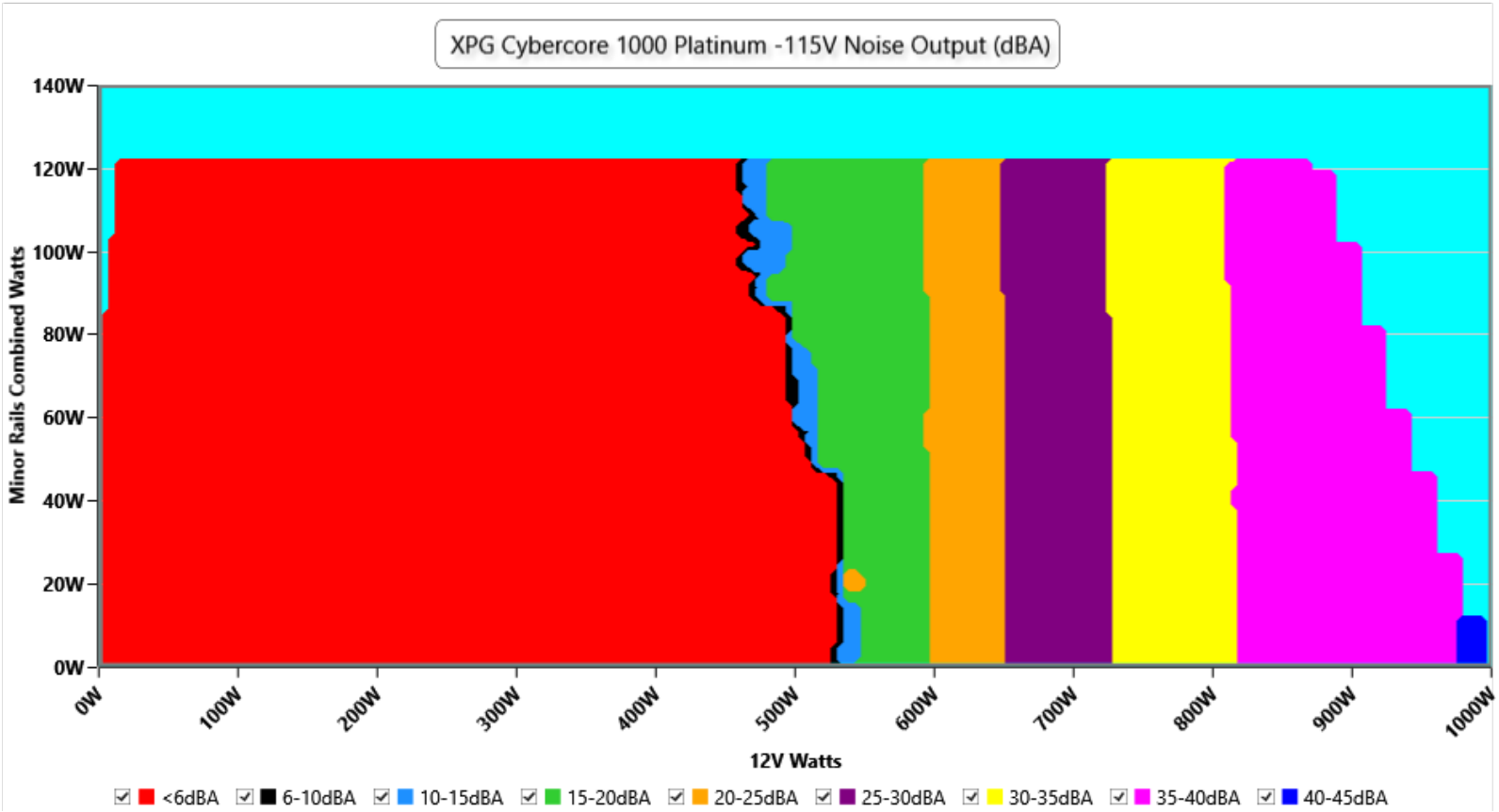
INFO

The average efficiency and power factor in five ranges of load. Calculated from the 1569 (115V) and 1569 (230V) load combinations of the certification sweep, the same data that ETA and LAMBDA use (test 0 excluded). Load is the total DC output as a share of the rated 1000 W. These are plain averages of the valid readings, as for the ETA rating, so the ranges combined give back the published averages.

Informational. Not part of the ETA or LAMBDA rating.

Noise Graph

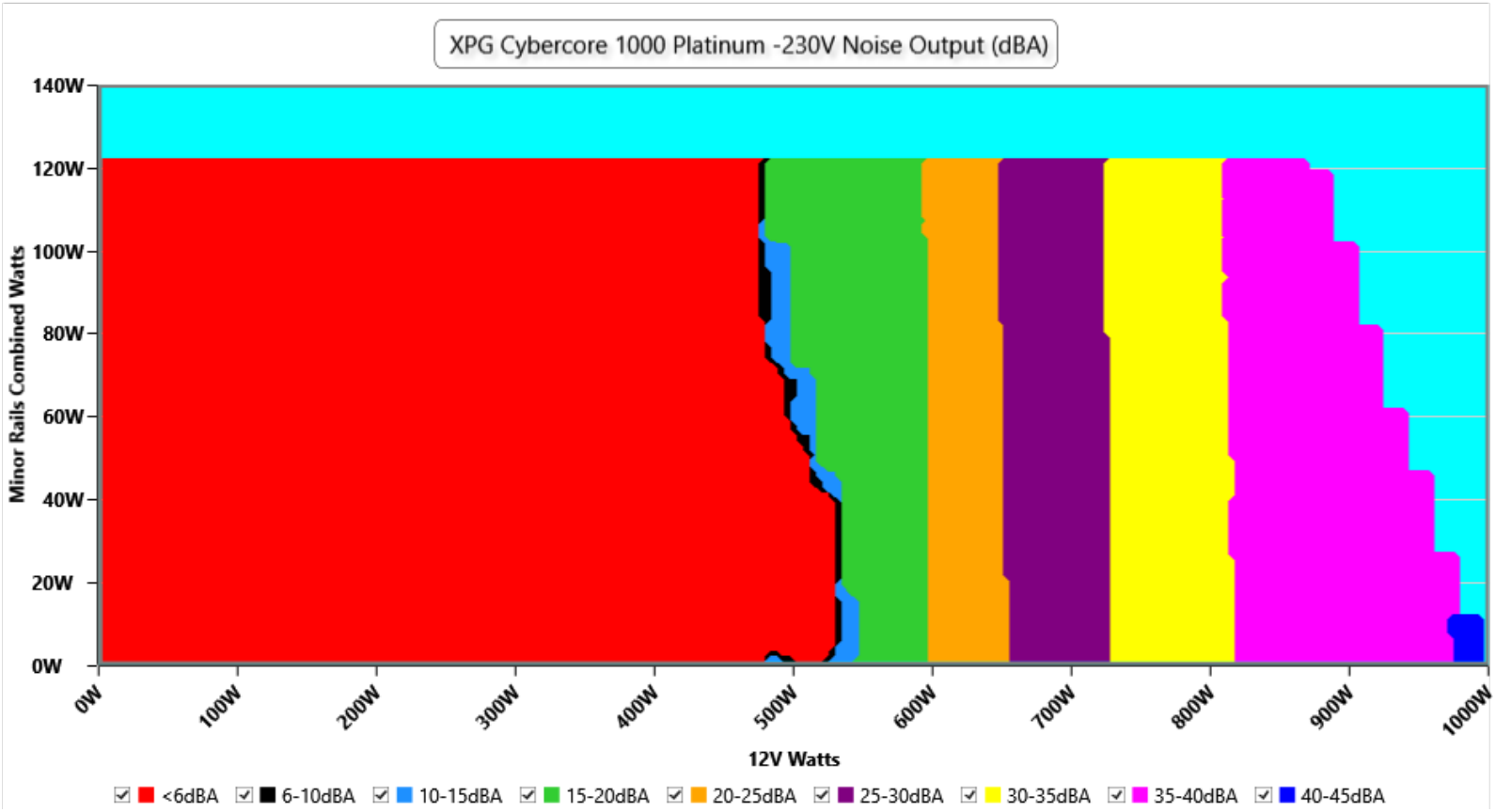
115V



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

230V



INFO

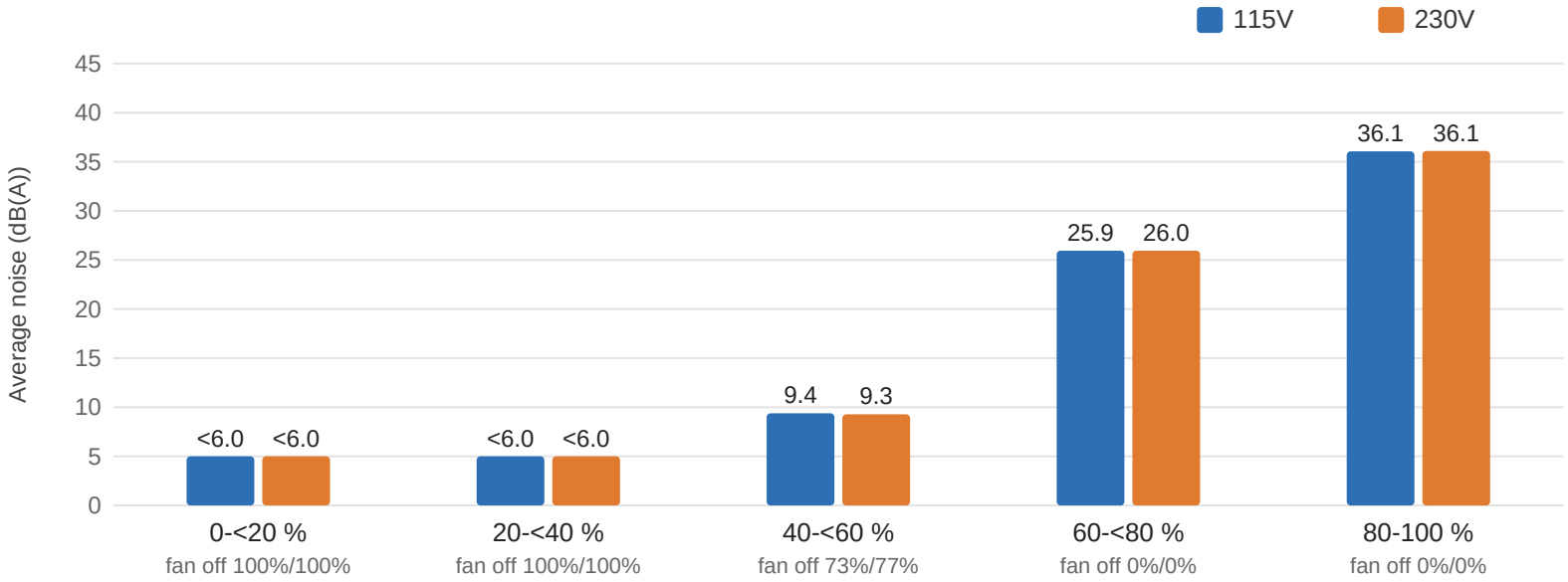
The PSU`s noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

Noise by load range

High-Load Index (70-100 % load)

Noise **34.7 dB(A)** at 115V and **34.7 dB(A)** at 230V · loudest point 40.3 dB(A)

Efficiency 89.94% / 92.32% · power factor 0.998 / 0.979 (115V / 230V)



Load range	Noise 115V avg (loudest)	Noise 230V avg (loudest)	Fan off 115V / 230V
0-<20 %	<6.0 (<6.0)	<6.0 (<6.0)	100% / 100%
20-<40 %	<6.0 (<6.0)	<6.0 (<6.0)	100% / 100%
40-<60 %	9.4 (22.2)	9.3 (19.5)	73% / 77%
60-<80 %	25.9 (33.7)	26.0 (33.7)	0% / 0%
80-100 %	36.1 (40.3)	36.1 (40.3)	0% / 0%
70-100 % (High-Load)	34.7 (40.3)	34.7 (40.3)	0% / 0%
All (published average)	29.8 (40.3)	29.9 (40.3)	51% / 52%

INFO

The average noise in five ranges of load, the share of points with the fan stopped (semi-passive operation), and the High-Load Index: the same figures for all points at 70 % of the rated output and above. Calculated from the 1569 (115V) and 1569 (230V) load combinations of the certification sweep, the same data that ETA and LAMBDA use (test 0 excluded). Load is the total DC output as a share of the rated 1000 W. Noise is averaged on the energy scale, as for LAMBDA, so the ranges combined give back the published average noise. Each load combination is held for about five seconds; the stabilized readings at fixed loads are under "Noise under high ambient temperature". Below 6 dB(A), the floor of our sound meter, the table and the chart show <6.0. In the averages a stopped fan counts as 5 dB(A),

as in the published average.

Informational. Not part of the ETA or LAMBDA rating.

Noise under high ambient temperature (indicative)

115V

Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	0 RPM · <6.0 dB(A) · 45.0 °C	0 RPM · <6.0 dB(A) · 45.0 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 46.2 °C	0 RPM · <6.0 dB(A) · 46.2 °C	fan off in both
50%	0 RPM · <6.0 dB(A) · 48.5 °C	0 RPM · <6.0 dB(A) · 48.5 °C	fan off in both
100%	2016 RPM · 38.5 dB(A) · 45.5 °C	2016 RPM · 38.5 dB(A) · 45.5 °C	**+0.0 dB(A)**

230V

Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	0 RPM · <6.0 dB(A) · 44.8 °C	0 RPM · <6.0 dB(A) · 44.8 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 45.6 °C	0 RPM · <6.0 dB(A) · 45.6 °C	fan off in both
50%	0 RPM · <6.0 dB(A) · 47.7 °C	0 RPM · <6.0 dB(A) · 47.7 °C	fan off in both
100%	2017 RPM · 38.5 dB(A) · 45.1 °C	2017 RPM · 38.5 dB(A) · 45.1 °C	**+0.0 dB(A)**

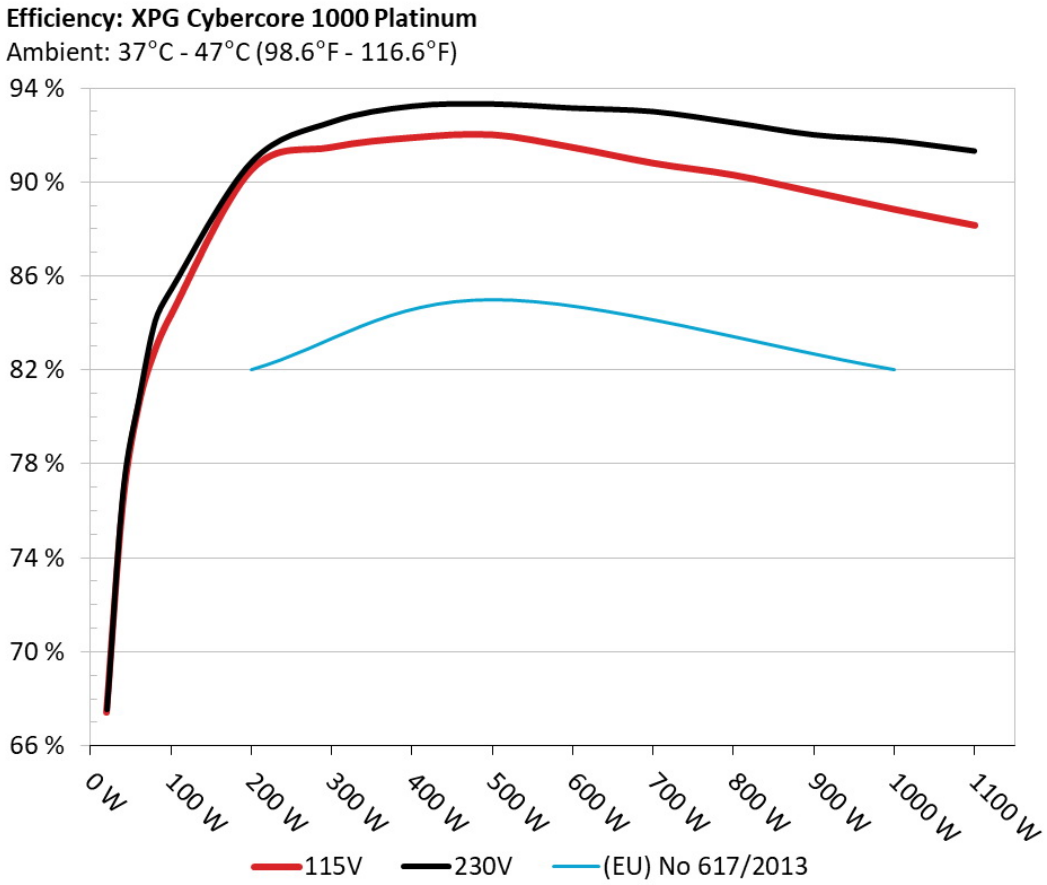
INFO

Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative of how the fan behaves when it is hot. "<6.0" is the floor of our sound meter: the fan is stopped or too quiet to measure (the fan speed column says which); with the fan stopped, the intake sensor can read higher than the chamber air.

Informational. Not part of the ETA or LAMBDA rating.

Indicative Performance

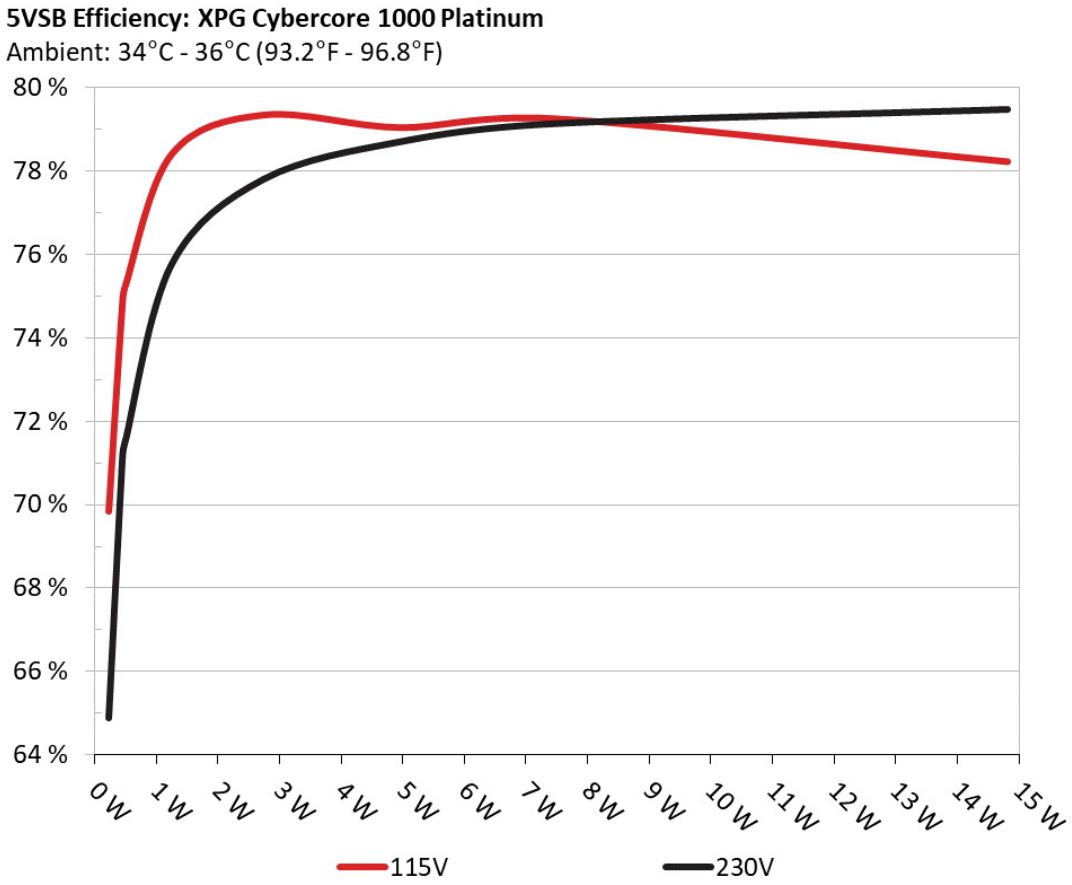
Efficiency under high ambient temperature



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

5VSB Efficiency (ERP LOT 3/6 & CEC)

115V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.225W	69.831%	0.026
	4.993V	0.322W		115.14V
2	0.09A	0.449W	74.858%	0.048
	4.99V	0.6W		115.14V
3	0.55A	2.74W	79.34%	0.233
	4.98V	3.453W		115.14V
4	1A	4.973W	79.035%	0.343
	4.972V	6.291W		115.14V
5	1.5A	7.447W	79.252%	0.407
	4.963V	9.397W		115.14V
6	3A	14.811W	78.22%	0.491
	4.937V	18.936W		115.13V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.225W	64.88%	0.008
	4.992V	0.348W		230.36V
2	0.09A	0.449W	71.157%	0.015
	4.989V	0.632W		230.36V
3	0.55A	2.739W	77.8%	0.082
	4.979V	3.521W		230.36V
4	1A	4.973W	78.704%	0.14
	4.971V	6.319W		230.36V
5	1.5A	7.445W	79.131%	0.196
	4.962V	9.409W		230.36V
6	3A	14.807W	79.473%	0.311
	4.935V	18.633W		230.35V

Supplementary Tests (For Reference)

Typical 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
10%	6.496A	1.982A	1.997A	0.994A	100.009	84.327%	0	<6.0	45.01°C	0.861
	12.070V	5.047V	3.306V	5.029V	118.284				40.79°C	115.14V
20%	14.020A	2.975A	2.997A	1.195A	199.964	90.502%	0	<6.0	46.19°C	0.992
	12.058V	5.044V	3.303V	5.023V	220.978				41.68°C	115.1V
30%	21.919A	3.472A	3.499A	1.396A	300.022	91.474%	0	<6.0	46.64°C	0.996
	12.042V	5.041V	3.301V	5.017V	328.106				41.82°C	115.07V
40%	29.810A	3.971A	4.001A	1.597A	399.737	91.88%	0	<6.0	47.47°C	0.996
	12.027V	5.038V	3.299V	5.011V	435.011				42.4°C	115.04V
50%	37.373A	4.966A	5.005A	1.799A	499.465	92.004%	0	<6.0	48.47°C	0.997
	12.013V	5.035V	3.297V	5.005V	542.887				42.83°C	115.02V
60%	45.039A	5.966A	6.013A	2.001A	600.021	91.466%	929	16.2	43.48°C	0.997
	11.994V	5.03V	3.293V	4.997V	656.029				49.58°C	114.99V
70%	52.641A	6.967A	7.023A	2.205A	699.769	90.798%	1207	24.2	43.92°C	0.997
	11.980V	5.025V	3.29V	4.989V	770.621				50.76°C	114.96V
80%	60.342A	7.97A	8.032A	2.308A	799.822	90.291%	1520	30.2	44.23°C	0.998
	11.963V	5.021V	3.287V	4.984V	885.962				52.05°C	114.94V
90%	68.388A	8.474A	8.526A	2.411A	899.596	89.569%	1794	35.5	44.84°C	0.999
	11.948V	5.016V	3.284V	4.978V	1004.185				53.4°C	114.92V
100%	76.274A	8.978A	9.052A	3.024A	999.64	88.835%	2016	38.5	45.46°C	0.998
	11.930V	5.013V	3.281V	4.961V	1125.218				55.04°C	114.89V
110%	84.115A	9.983A	10.158A	3.026A	1100.265	88.152%	2196	40.9	46.83°C	0.998
	11.911V	5.009V	3.278V	4.958V	1248.338				57.55°C	114.86V
CL1	0.116A	14.304A	14.452A	0A	121.311	80.854%	0	<6.0	53.72°C	0.878
	12.051V	5.048V	3.3V	5.071V	150.132				48.15°C	115.13V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL2	0.116A	21.755A	0A	0A	111.399	79.795%	925	15.7	42.65°C	0.873
	12.058V	5.056V	3.302V	5.1V	139.586				50.19°C	115.13V
CL3	0.116A	0A	21.955A	0A	73.994	73.495%	923	15.7	41.46°C	0.785
	12.057V	5.053V	3.307V	5.045V	100.664				51.02°C	115.15V
CL4	83.740A	0A	0A	0A	1000.131	89.337%	2185	40.7	46.99°C	0.998
	11.943V	5.021V	3.29V	5.027V	1118.937				58.3°C	114.89V

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
10%	6.500A	1.981A	1.996A	0.994A	100.01	85.426%	0	<6.0	44.82°C	0.836
	12.064V	5.05V	3.307V	5.033V	116.992				40.57°C	230.35V
20%	14.032A	2.972A	2.996A	1.194A	199.962	90.839%	0	<6.0	45.56°C	0.927
	12.048V	5.047V	3.305V	5.027V	220.078				41°C	230.34V
30%	21.939A	3.47A	3.497A	1.395A	300.009	92.544%	0	<6.0	46.05°C	0.946
	12.031V	5.045V	3.303V	5.021V	324.238				41.21°C	230.33V
40%	29.844A	3.967A	3.999A	1.596A	399.71	93.212%	0	<6.0	46.63°C	0.953
	12.012V	5.042V	3.301V	5.014V	428.83				41.54°C	230.31V
50%	37.431A	4.961A	5.002A	1.797A	499.439	93.306%	0	<6.0	47.73°C	0.962
	11.993V	5.04V	3.299V	5.009V	535.37				42.17°C	230.3V
60%	45.115A	5.959A	6.009A	2A	599.971	93.133%	939	16.0	42.42°C	0.964
	11.973V	5.036V	3.295V	5.002V	644.255				48.65°C	230.28V
70%	52.746A	6.96A	7.019A	2.204A	699.704	92.986%	1205	24.2	43.16°C	0.965
	11.956V	5.03V	3.291V	4.993V	752.477				50.26°C	230.27V
80%	60.469A	7.964A	8.031A	2.307A	799.762	92.514%	1522	30.2	43.72°C	0.978
	11.937V	5.024V	3.287V	4.986V	864.513				51.54°C	230.26V
90%	68.553A	8.468A	8.525A	2.41A	899.537	92%	1798	35.6	44.56°C	0.985
	11.919V	5.02V	3.284V	4.981V	977.83				53.03°C	230.25V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	76.406A	8.989A	9.052A	3.023A	999.343	91.746%	2017	38.5	45.06°C	0.984
	11.906V	5.006V	3.281V	4.962V	1089.275				54.73°C	230.23V
110%	84.313A	9.995A	10.157A	3.025A	1100.08	91.308%	2202	40.9	46.68°C	0.985
	11.881V	5.003V	3.278V	4.96V	1204.821				57.47°C	230.21V
CL1	0.116A	14.328A	14.449A	0A	121.3	81.813%	0	<6.0	45.43°C	0.881
	12.052V	5.039V	3.301V	5.072V	148.331				39.96°C	230.34V
CL2	0.116A	21.836A	0A	0A	111.382	80.595%	924	16.3	42.46°C	0.869
	12.061V	5.037V	3.301V	5.097V	138.269				49.6°C	230.34V
CL3	0.116A	0A	21.96A	0A	73.987	74.294%	922	16.4	40.97°C	0.8
	12.059V	5.052V	3.306V	5.044V	99.713				50.12°C	230.35V
CL4	83.962A	0A	0A	0A	1000.084	92.179%	2190	40.8	45.25°C	0.984
	11.911V	5.019V	3.289V	5.024V	1085.125				56.33°C	230.22V

The results above are not used in the certification process

Light 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
20W	1.228A	0.495A	0.499A	0.198A	20	67.441%	0	<6.0	39.78°C	0.663
	12.086V	5.048V	3.307V	5.046V	29.856				36.71°C	115.14V
40W	2.706A	0.693A	0.699A	0.298A	39.999	76.257%	0	<6.0	40.57°C	0.735
	12.082V	5.048V	3.307V	5.043V	52.499				37.27°C	115.14V
60W	4.184A	0.892A	0.898A	0.397A	59.998	80.508%	0	<6.0	41.84°C	0.767
	12.078V	5.048V	3.307V	5.042V	74.463				38.09°C	115.14V
80W	5.658A	1.09A	1.098A	0.496A	79.956	82.812%	0	<6.0	44.42°C	0.833
	12.074V	5.048V	3.307V	5.04V	96.402				40.34°C	115.13V

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
20W	1.229A	0.495A	0.499A	0.198A	20.001	67.562%	0	<6.0	40.11°C	0.443
	12.083V	5.052V	3.309V	5.049V	29.883				37.01°C	230.36V
40W	2.706A	0.693A	0.698A	0.297A	39.999	76.798%	0	<6.0	40.76°C	0.615
	12.079V	5.051V	3.308V	5.046V	52.525				37.49°C	230.36V
60W	4.184A	0.891A	0.898A	0.397A	59.997	80.77%	0	<6.0	41.83°C	0.717
	12.075V	5.05V	3.308V	5.043V	74.293				38.3°C	230.36V
80W	5.660A	1.089A	1.097A	0.496A	79.953	84.075%	0	<6.0	43.53°C	0.789
	12.071V	5.049V	3.307V	5.041V	95.286				39.75°C	230.36V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	10.98mV	6.49mV	6.24mV	5.71mV	Pass
20% Load	18.25mV	6.39mV	4.10mV	6.07mV	Pass
30% Load	11.64mV	6.75mV	4.91mV	5.76mV	Pass
40% Load	13.13mV	7.82mV	10.49mV	6.52mV	Pass
50% Load	17.83mV	7.16mV	6.40mV	6.88mV	Pass
60% Load	16.34mV	7.42mV	6.40mV	6.48mV	Pass
70% Load	15.07mV	7.82mV	12.95mV	7.04mV	Pass
80% Load	17.77mV	10.07mV	20.06mV	8.87mV	Pass
90% Load	19.00mV	11.25mV	24.72mV	10.15mV	Pass
100% Load	24.52mV	11.81mV	25.00mV	10.74mV	Pass
110% Load	26.16mV	10.42mV	17.85mV	9.66mV	Pass
Crossload1	12.61mV	7.51mV	14.50mV	5.59mV	Pass
Crossload2	11.24mV	7.57mV	4.30mV	6.02mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	23.09mV	5.88mV	15.56mV	5.00mV	Pass
Crossload4	24.17mV	8.74mV	13.78mV	8.97mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	10.72mV	6.60mV	6.19mV	6.27mV	Pass
20% Load	9.81mV	6.03mV	3.89mV	5.87mV	Pass
30% Load	11.36mV	6.09mV	4.61mV	5.40mV	Pass
40% Load	15.22mV	7.00mV	9.06mV	6.02mV	Pass
50% Load	13.99mV	7.26mV	10.03mV	6.02mV	Pass
60% Load	16.86mV	8.74mV	13.00mV	7.44mV	Pass
70% Load	18.44mV	7.46mV	6.96mV	6.88mV	Pass
80% Load	18.13mV	9.92mV	20.68mV	8.57mV	Pass
90% Load	17.73mV	11.15mV	23.54mV	9.08mV	Pass
100% Load	25.58mV	10.62mV	22.05mV	9.53mV	Pass
110% Load	28.00mV	10.21mV	17.28mV	10.28mV	Pass
Crossload1	11.57mV	6.98mV	14.53mV	5.64mV	Pass
Crossload2	11.39mV	7.52mV	4.20mV	5.35mV	Pass
Crossload3	20.79mV	5.57mV	15.41mV	4.79mV	Pass
Crossload4	25.63mV	8.66mV	9.96mV	8.63mV	Pass

The results above are not used in the certification process

XPG Cybercore 1000 Platinum



Top side



Power specifications label

All data and graphs included in this test report can be used by any individual on the following conditions:
› 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 runs voluntary certification programs for power supplies - ETA for efficiency, LAMBDA for noise and SAFE for safety and correct operation - and for cooling products, with DELTA for chassis soundproofing and PHI for fan airflow and static pressure. THETA rates cooler performance on AMD AM5 and Intel LGA1851 outside ISO 17065 and accreditation scope

CYBENETICS LTD Syrou 6, Latsia, 2231, Nicosia Cyprus

www.cybenetics.com - info@cybenetics.com