Make It Yours.

Cooler Master Elite Gold 1000W

Serial Number CM1301000E41091301000013

Lab ID CM10003108

Certification ID 263108

Test Result Report ID: 26PS3108A

Certificate Issue Date: Feb 20, 2026

Scheme: ETA-EMI PSU

115V 230V

Scheme: LAMBDA PSU

115V 230V

Outside Validation Scope

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	Cooler Master
Model	Elite Gold 1000W
OEM/ODM	XHY
Serial Number	CM1301000E41091301000013
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240

Rated Current (Arms)	6-13
Rated Frequency (Hz)	50-60
Rated Power (W)	1000
Operating Temperature (Continuous Full Load) (°C)	0 - 40
Type	ATX12V
Cable Design	Fully Modular
Warranty	10 years
Cybenetics Measurements	
Dimensions (W x H x D)	150 x 85 x 140mm
Weight	1.53 kg (3.37 lb)
Cooling	120mm Rifle Bearing Fan (DF1202512RFMN)
Semi-Passive Operation	✗
Cybenetics Testing Information	
Lab ID	CM10003108
Date of receipt	Jan 7, 2026
Testing Date	Feb 10, 2026
Report Issued Date	Feb 20, 2026
DUT Notes	XHY-sourced platform; a CWT GPX-based version also exists. • Hold-up time re-checked on 2026-10-16: the lowest hold-up of all captures was logged (14.30 ms; AC loss to PWR_OK 11.00 ms; PWR_OK inactive to DC loss 3.30 ms). • Efficiency at 2% load and at 20 W (230V) re-derived on 2026-10-16 from the measured average DC output and AC input power: 68.83% (20.004 W / 29.065 W) and 68.44% (20.003 W / 29.229 W). The unit's input power fluctuates strongly at these very light loads at 230V, and the earlier values (61.91% and 62.08%) came from a per-sample efficiency average that skipped the low-input readings.
Engineer Name	Ioannis Kalyviotis
Authorized By the Laboratory Technical Manager	Aristeidis Bitziopoulos
Signature	

Cables and Connectors

(Non-accredited measurements)

Modular Cables				
Description	**Cable Count**	**Connector Count (Total)**	**Gauge**	**Cable Type**
ATX connector 20+4 pin (600mm)	1	1	18-22AWG	Tinned Copper
4+4 pin EPS12V (600mm)	1	1	18AWG	Tinned Copper
8 pin EPS12V (600mm)	1	1	18AWG	Tinned Copper
6+2 pin PCIe (500mm)	3	3	18AWG	Tinned Copper
12+4 pin PCIe (650mm) (600W)	1	1	16-24AWG	Tinned Copper
SATA (400mm+125mm) / 4-pin Molex (+125mm)	2	4 / 2	18AWG	Tinned Copper
AC Power Cord (1370mm) - C13 coupler	1	1	17AWG	-

Protection Features

Under Voltage Protection	✓
Over Power Protection	✓
Over Current (+12V) Protection	✓
Over Temperature Protection	✓
Short Circuit Protection	✓
Surge Protection	✓
Inrush Current Protection	✓
Fan Failure Protection	✗

Power Specifications

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	83.3	3	0.3
	Watts	100		999.6	15	3.6
Total Max. Power (W)		1000				

Parts Description

General Data	
Manufacturer (OEM)	Xin Hui Yuan Technology
PCB Type	Double-Sided

Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV, 1x Sync Power SP687 (X Capacitor Discharge IC)
Inrush Protection	1x NTC Thermistor MF72 5D-15 (5.0 Ohm @ 25°C) & Relay
Bridge Rectifier	2x Yangzhou Yangjie GBUL2506 (600V, 25A @ 125°C)
APFC MOSFETs	2x CR Micro CRJT99N65G2BF (650V, 20A @ 100°C, Rds(on): 0.090 Ohm)
APFC Boost Diode	Xiamen Sanan Integrated Circuit SDS065J006C3 (650V, 8.7A @ 135°C)
Bulk Cap(s)	1x Nichicon (420V, 560uF, 2000h @ 105°C)
Main Switchers	4x CR Micro CS20N50FA9R (500V, 12.5A @ 100°C, Rds(on): 300mOhm)
APFC Controller	Champion CM6500UNX
Resonant Controller	Champion CM6901T6X
Topology	Primary side: APFC, Full-Bridge & LLC Resonant Converter Secondary side: [12V] Synchronous Rectification & [Minor Rails] DC-DC converters
Secondary Side	
+12V MOSFETs	4x UNI U300N06LF (60V, 300A @ 100°C, Rds(on): 0.75mOhm)
5V & 3.3V	DC-DC Converters: 4x CR Micro CRSM035N03L6Z (30V, 54A @ 100°C, Rds(on): 3.1mOhm) PWM Controller(s): UPI uP3861P
Filtering Capacitors	Electrolytic: 3x Champion 16V, 3300uF (@ 105°C, W) 5x Rubycon 35V, 100uF (@ 105°C, YXJ) 1x Rubycon 35V, 220uF (@ 105°C, ZLH) 1x Rubycon 50V, 47uF (@ 105°C, YXJ) 1x Rubycon 16V, 1000uF (@ 105°C, ZLH) Polymer: 11x FPCAP 16V 8x FPCAP 6.3V
Supervisor IC	IN1S4241-SDG (OVP, UVP,PG)
Fan Power Switch	D965A NPN Transistor
Fan Model	MARTECH DF1202512RFMN (120mm, 12V, 0.37A, Rifle Bearing Fan)
5VSB Circuit	
Rectifier	Dongke DK5V60R10S (60V, 10mΩ)
Standby PWM Controller	ExcellianceMOS EM8569C

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	✓
ATX v3.1 PSU Power Excursion	✓

Performance Summary

115V

Accredited	
Average Efficiency (>1450 load combinations)	88.644%
Average Noise Output (>1450 Load Combinations)	34.13dBA
Average PF (>1450 Load Combinations)	0.978
Efficiency With 10W (≤500W) or 2% (>500W) Load	68.158%
Standby Power Consumption	0.0358W
Non-Accredited	
12V Ripple (Full Load)	39.87mV
5V Ripple (Full Load)	23.01mV
3.3V Ripple (Full Load)	24.47mV
5VSB Ripple (Full Load)	20.48mV
12V Load Regulation	0.05%
5V Load Regulation	0.44%
3.3V Load Regulation	0.70%
5VSB Load Regulation	2.47%
Inrush Current	-

230V

Accredited		
Average Efficiency (>1450 load combinations)		90.694%
Average Noise Output (>1450 Load Combinations)		32.88dBA
Average PF (>1450 Load Combinations)		0.943
Efficiency With 10W (≤500W) or 2% (>500W) Load		68.825%
Standby Power Consumption		0.0792W
Non-Accredited		
12V Ripple (Full Load)		36.55mV
5V Ripple (Full Load)		18.77mV
3.3V Ripple (Full Load)		20.61mV
5VSB Ripple (Full Load)		17.85mV
12V Load Regulation		0.17%
5V Load Regulation		0.42%
3.3V Load Regulation		1.44%
5VSB Load Regulation		2.51%
Inrush Current		-
12V Transient Response (200%)		11.38V
5V Transient Response (200%)		4.911V
3.3V Transient Response (200%)		3.180V
5VSB Transient Response (200%)		4.935V
Hold-Up Time & PWR_OK Signal		14.30ms
AC Loss to PWR_OK Hold Up Time		11.00ms
PWR_OK Inactive to DC Loss Delay		3.30ms
PSU Timings: T1 (20% / 100%)	52.0ms	49.0ms
PSU Timings: T3 (20% / 100%)	138.0ms	138.0ms
12V OCP (30.9°C / 44.1°C)	98.600A (118.37%), 12.093V — shut down	98.400A (118.13%), 12.101V — shut down
5V OCP (30.9°C / 44.1°C)	23.800A (119.00%), 4.977V — shut down	23.700A (118.50%), 4.963V — shut down
3.3V OCP (30.9°C / 44.1°C)	24.500A (122.50%), 3.219V — shut down	23.900A (119.50%), 3.216V — shut down
5VSB OCP (30.9°C / 44.1°C)	5.500A (183.33%), 4.989V — shut down	5.500A (183.33%), 4.985V — shut down
OPP (30.67°C / 43.15°C)	127.11%	122.06%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	14.3
AC Loss to PWR_OK Hold Up Time (ms)	11
PWR_OK Inactive to DC Loss Delay (ms)	3.3

Vampire Power

Tables

115V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.02 V	115.01 V	113.85 V	115.05 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.417	1.490	PASS
Mains Voltage THD:	0.13 %	0.09 %	N/A	0.17 %	2.00 %	PASS
Real Power:	0.036 W	-0.007 W	N/A	0.072 W	N/A	N/A
Apparent Power:	6.656 W	6.632 W	N/A	6.684 W	N/A	N/A
Power Factor:	0.010	N/A	N/A	N/A	N/A	N/A

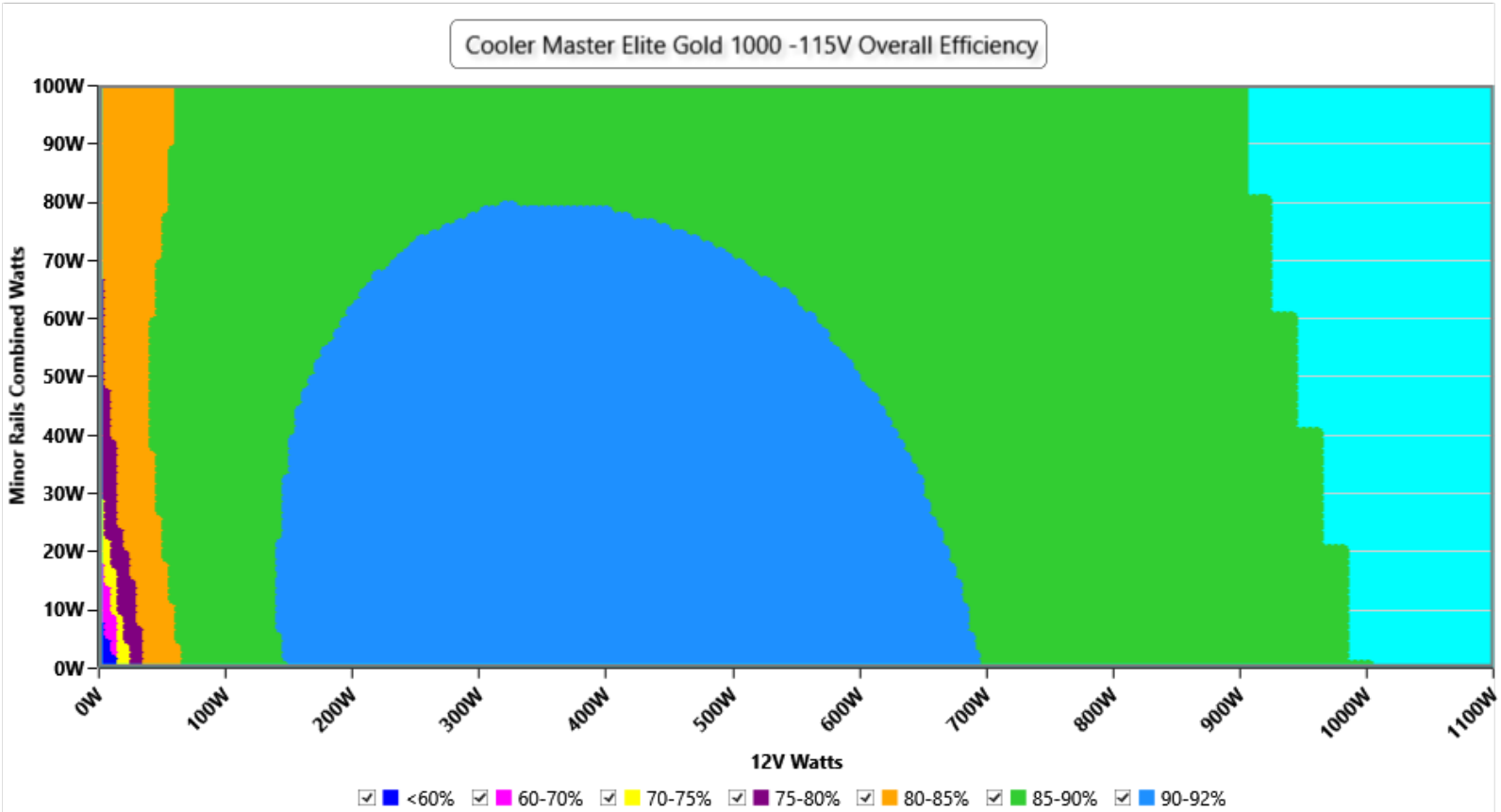
230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.09 V	230.05 V	227.70 V	230.10 V	232.30 V	PASS
Mains Frequency:	50.00 Hz	50.00 Hz	49.50 Hz	50.00 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:	0.079 W	0.042 W	N/A	0.123 W	N/A	N/A
Apparent Power:	20.758 W	20.718 W	N/A	20.792 W	N/A	N/A

Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

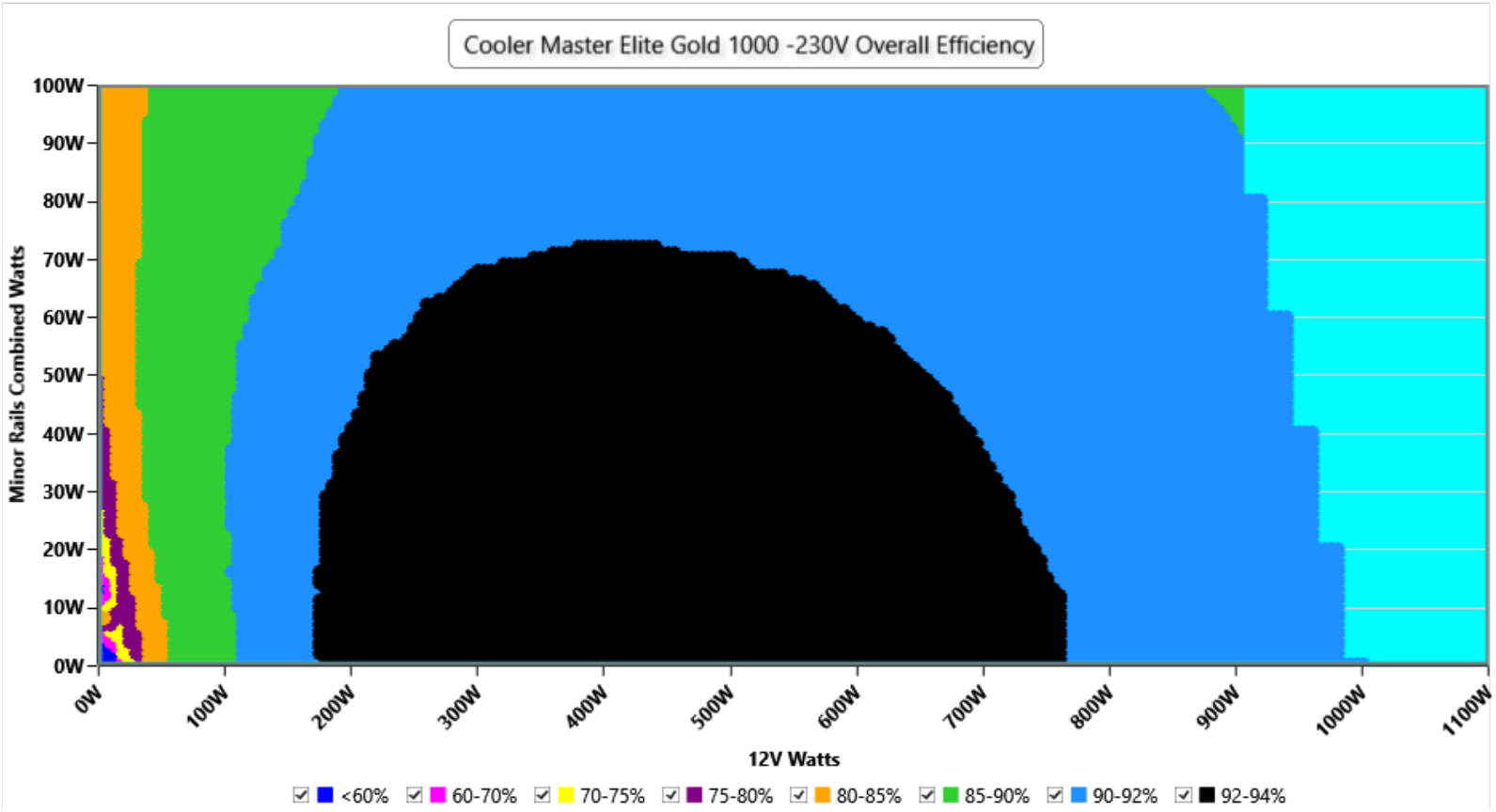
115V



INFO

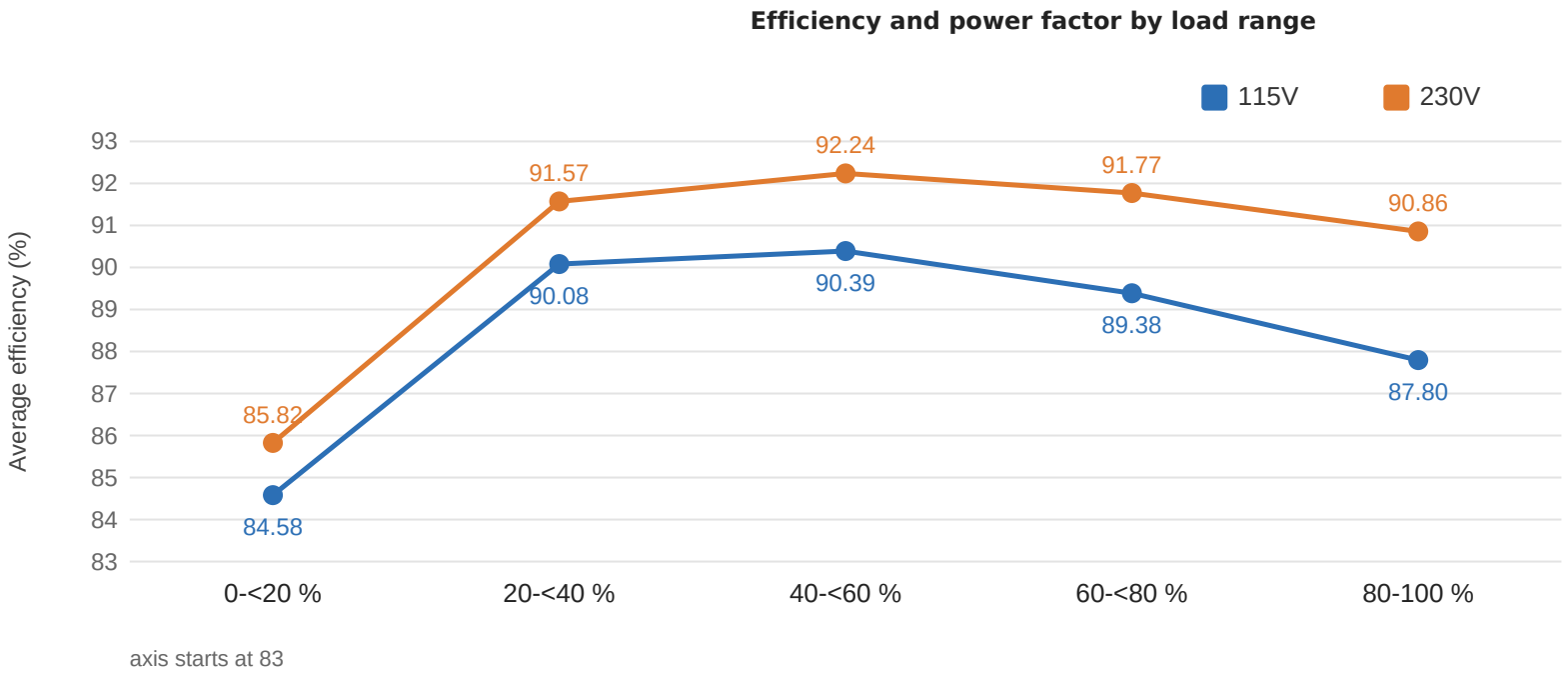
This graph depicts the PSU`s efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

230V

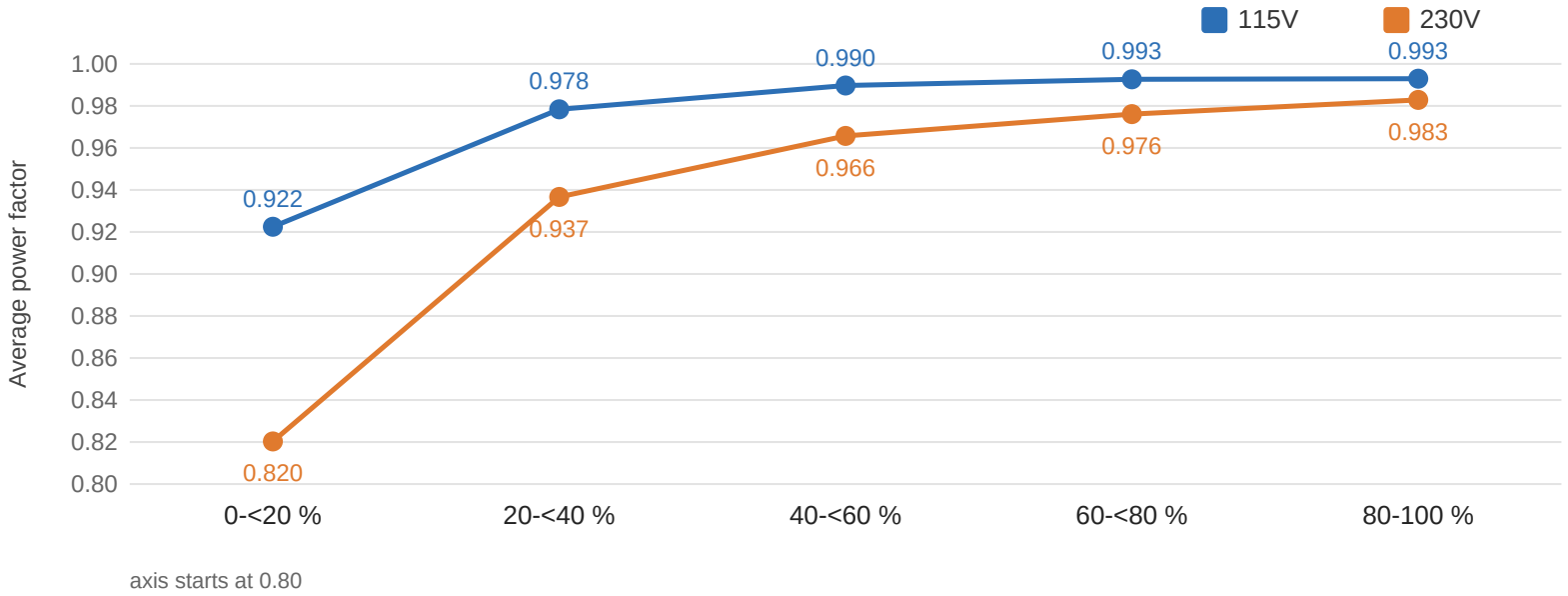


INFO

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 83



axis starts at 0.80

Load range	Points	Efficiency 115V	Efficiency 230V	PF 115V	PF 230V
0-<20 %	233 / 233	84.58%	85.82%	0.922	0.820
20-<40 %	310 / 310	90.08%	91.57%	0.978	0.937
40-<60 %	310 / 310	90.39%	92.24%	0.990	0.966
60-<80 %	310 / 310	89.38%	91.77%	0.993	0.976
80-100 %	317 / 317	87.80%	90.86%	0.993	0.983
70-100 % (High-Load)	472 / 472	88.20%	91.09%	0.993	0.981
All (published average)	1480 / 1480	88.64%	90.69%	0.978	0.943

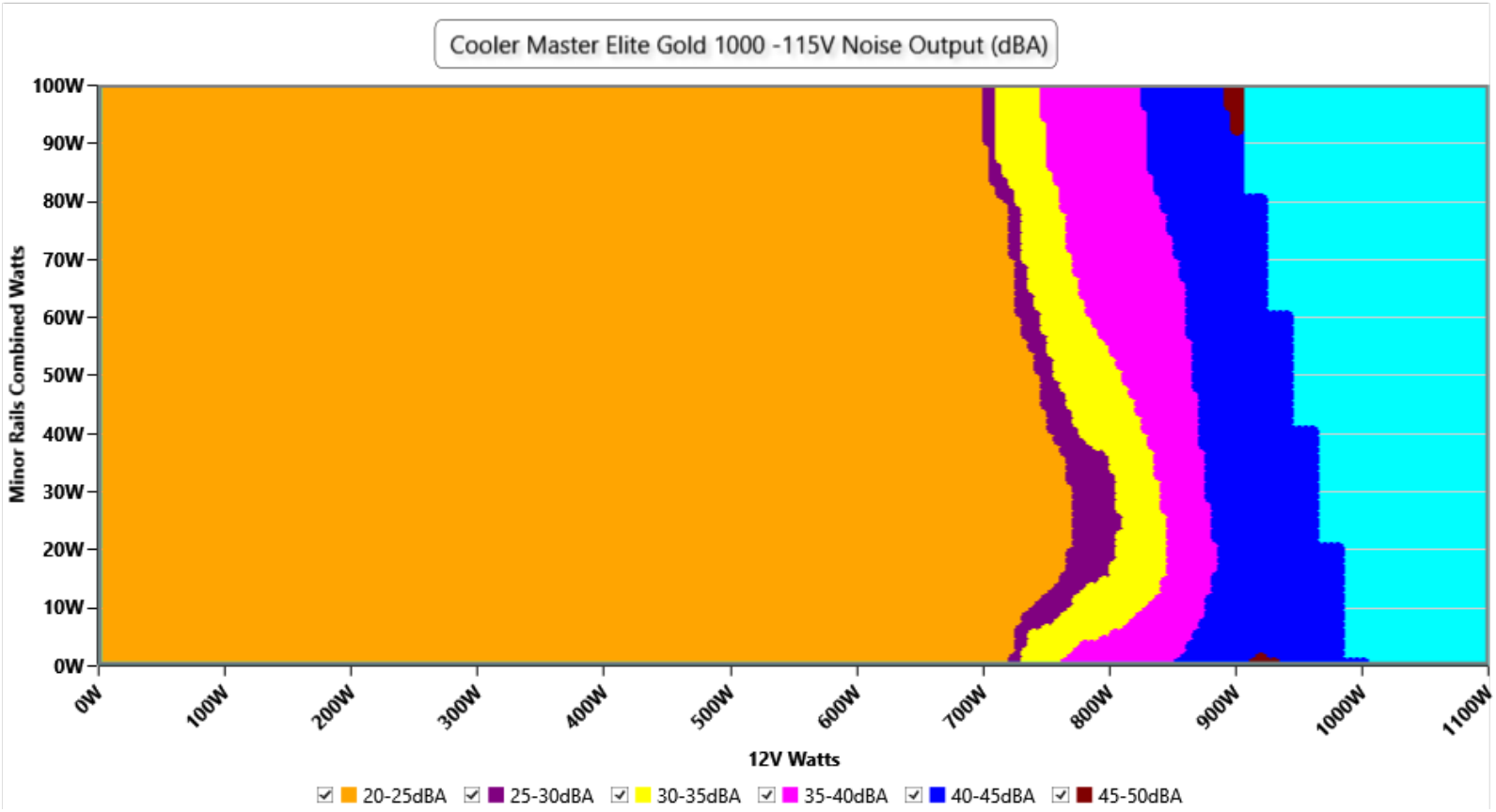
INFO

The average efficiency and power factor in five ranges of load. Calculated from the 1480 (115V) and 1480 (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

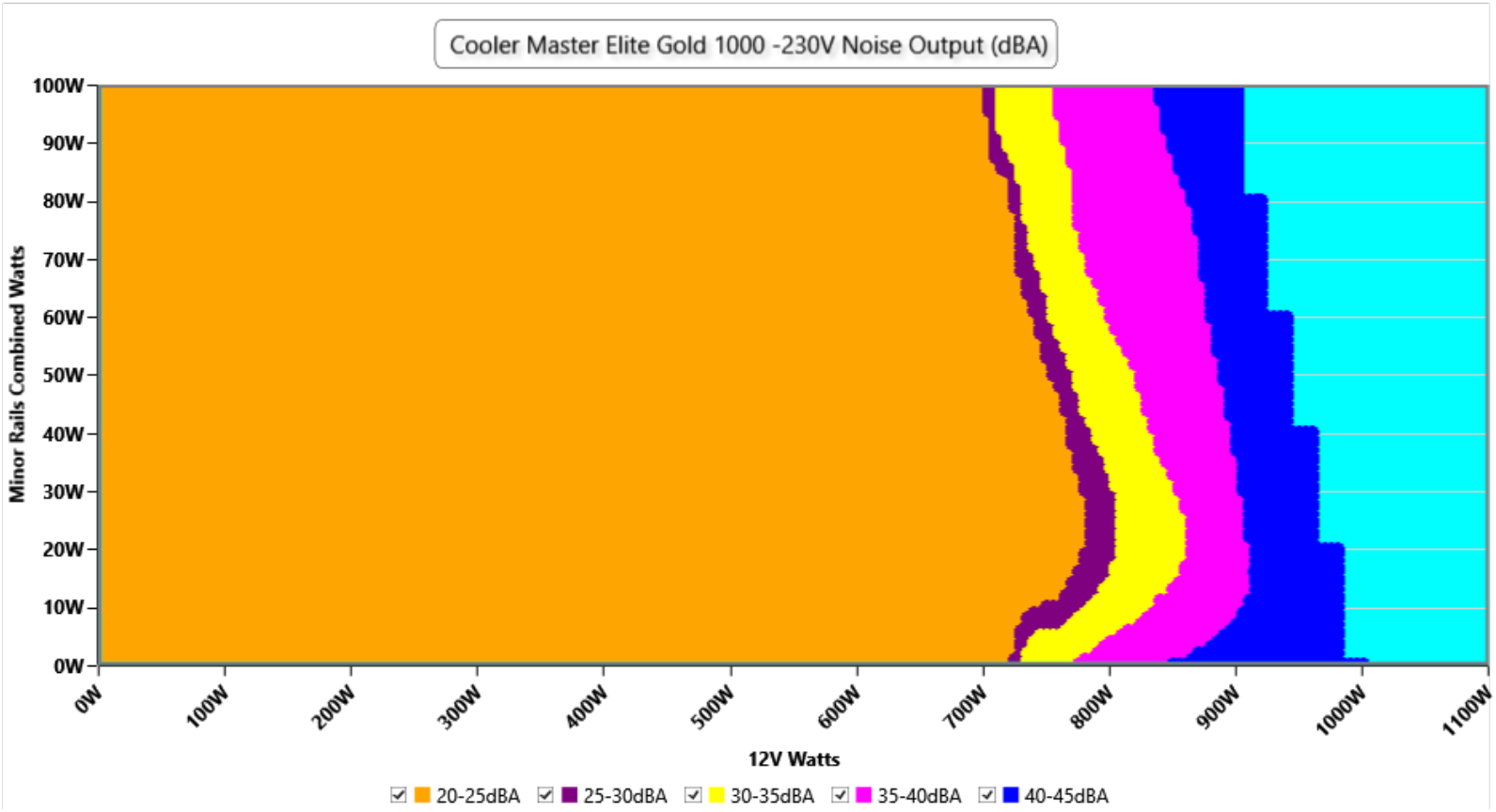
115V



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

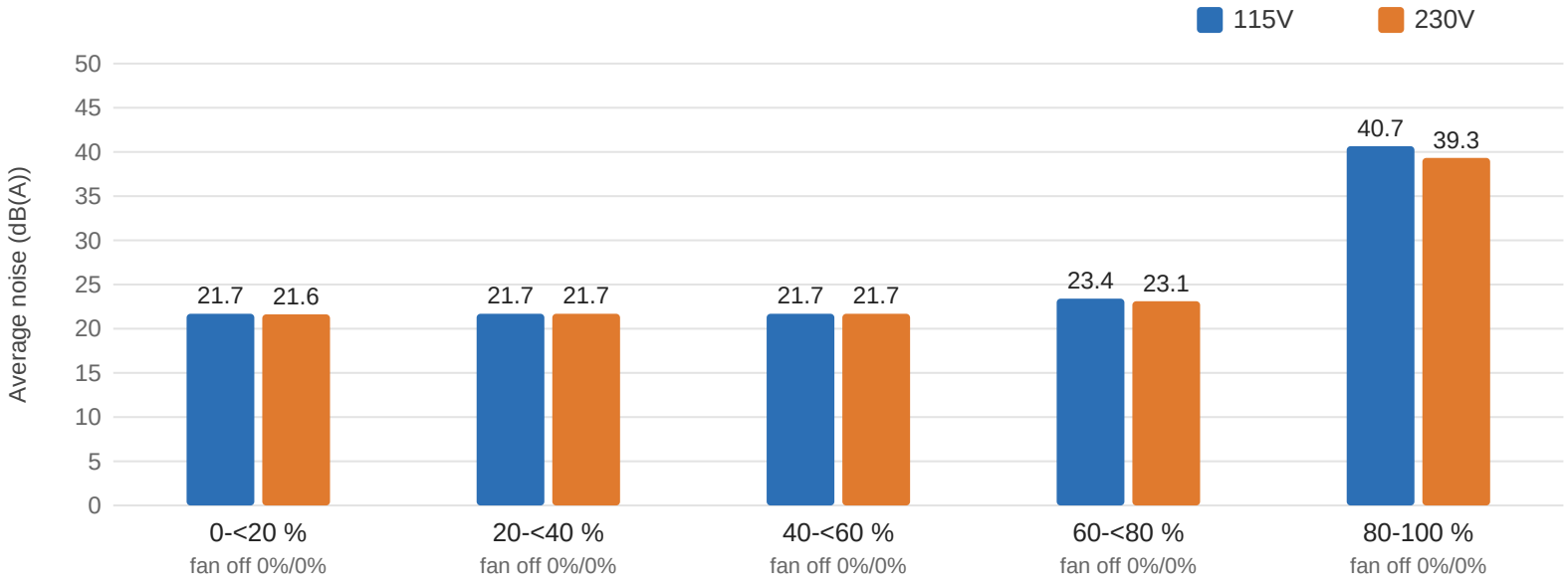
The PSU`s noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

Noise by load range

High-Load Index (70-100 % load)

Noise **39.0 dB(A)** at 115V and **37.7 dB(A)** at 230V · loudest point 45.1 dB(A)

Efficiency 88.20% / 91.09% · power factor 0.993 / 0.981 (115V / 230V)



Load range	Noise 115V avg (loudest)	Noise 230V avg (loudest)	Fan off 115V / 230V
0-<20 %	21.7 (21.7)	21.6 (21.7)	0% / 0%
20-<40 %	21.7 (21.7)	21.7 (21.7)	0% / 0%
40-<60 %	21.7 (21.7)	21.7 (21.7)	0% / 0%
60-<80 %	23.4 (36.6)	23.1 (35.4)	0% / 0%
80-100 %	40.7 (45.1)	39.3 (44.5)	0% / 0%
70-100 % (High-Load)	39.0 (45.1)	37.7 (44.5)	0% / 0%
All (published average)	34.2 (45.1)	32.9 (44.5)	0% / 0%

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 1480 (115V) and 1480 (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%	827 RPM · 20.6 dB(A) · 30.4 °C	855 RPM · 21.9 dB(A) · 40.5 °C	**+1.3 dB(A)**
20%	832 RPM · 20.8 dB(A) · 30.3 °C	859 RPM · 21.9 dB(A) · 40.7 °C	**+1.1 dB(A)**
50%	842 RPM · 21.4 dB(A) · 30.0 °C	874 RPM · 22.2 dB(A) · 42.2 °C	**+0.8 dB(A)**
100%	1700 RPM · 40.0 dB(A) · 30.6 °C	2129 RPM · 45.7 dB(A) · 45.4 °C	**+5.7 dB(A)**

230V

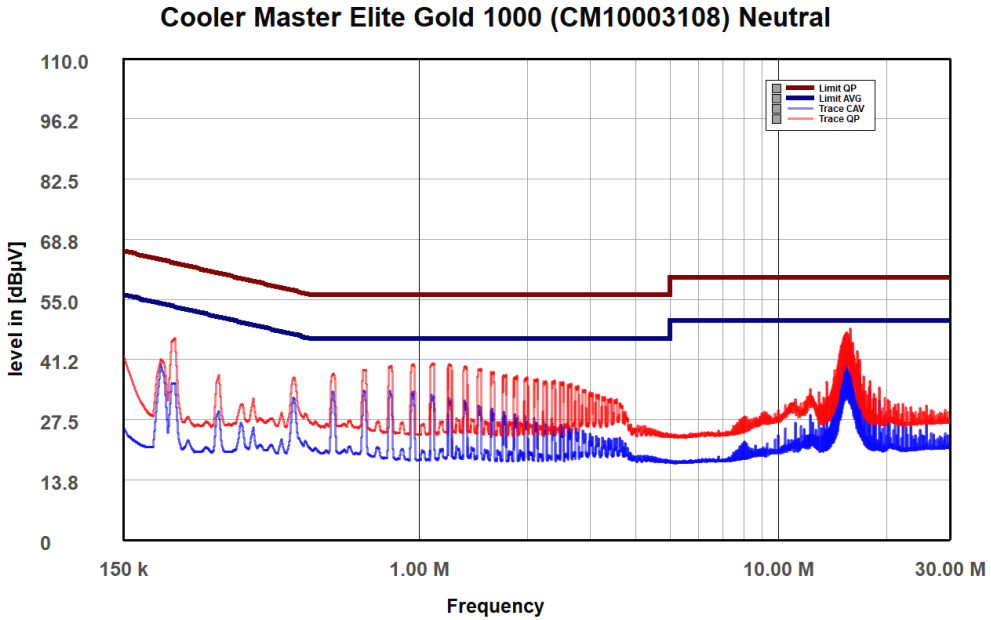
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	830 RPM · 20.7 dB(A) · 30.4 °C	856 RPM · 21.9 dB(A) · 40.2 °C	**+1.2 dB(A)**
20%	835 RPM · 21.0 dB(A) · 30.4 °C	859 RPM · 21.9 dB(A) · 40.9 °C	**+0.9 dB(A)**
50%	844 RPM · 21.5 dB(A) · 30.2 °C	873 RPM · 22.2 dB(A) · 42.1 °C	**+0.7 dB(A)**
100%	1754 RPM · 41.0 dB(A) · 30.4 °C	2127 RPM · 45.7 dB(A) · 45.3 °C	**+4.7 dB(A)**

INFO

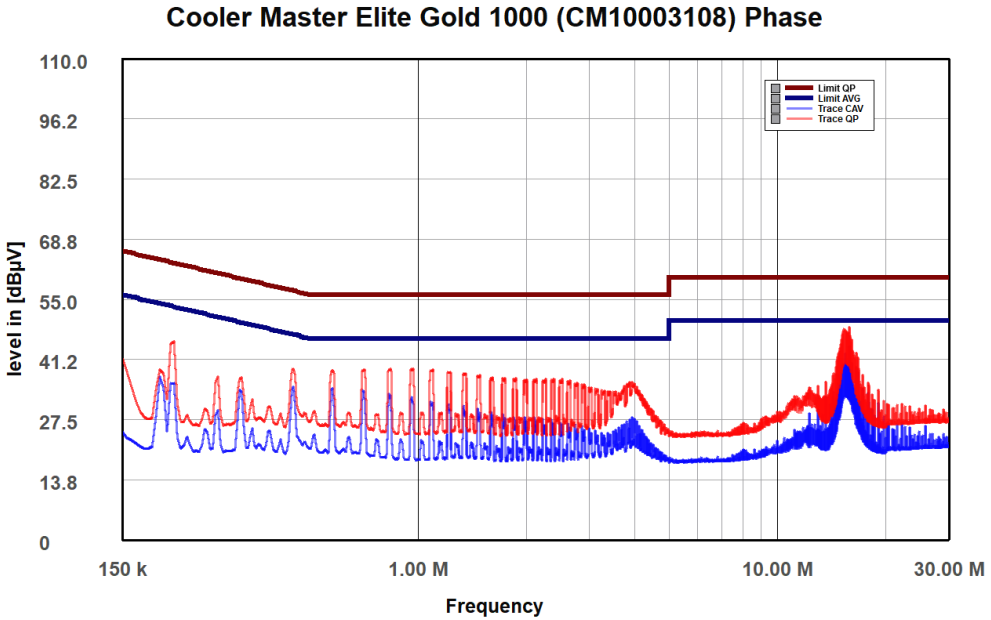
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative 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.

Conducted Emissions EN 55032 & CISPR 32



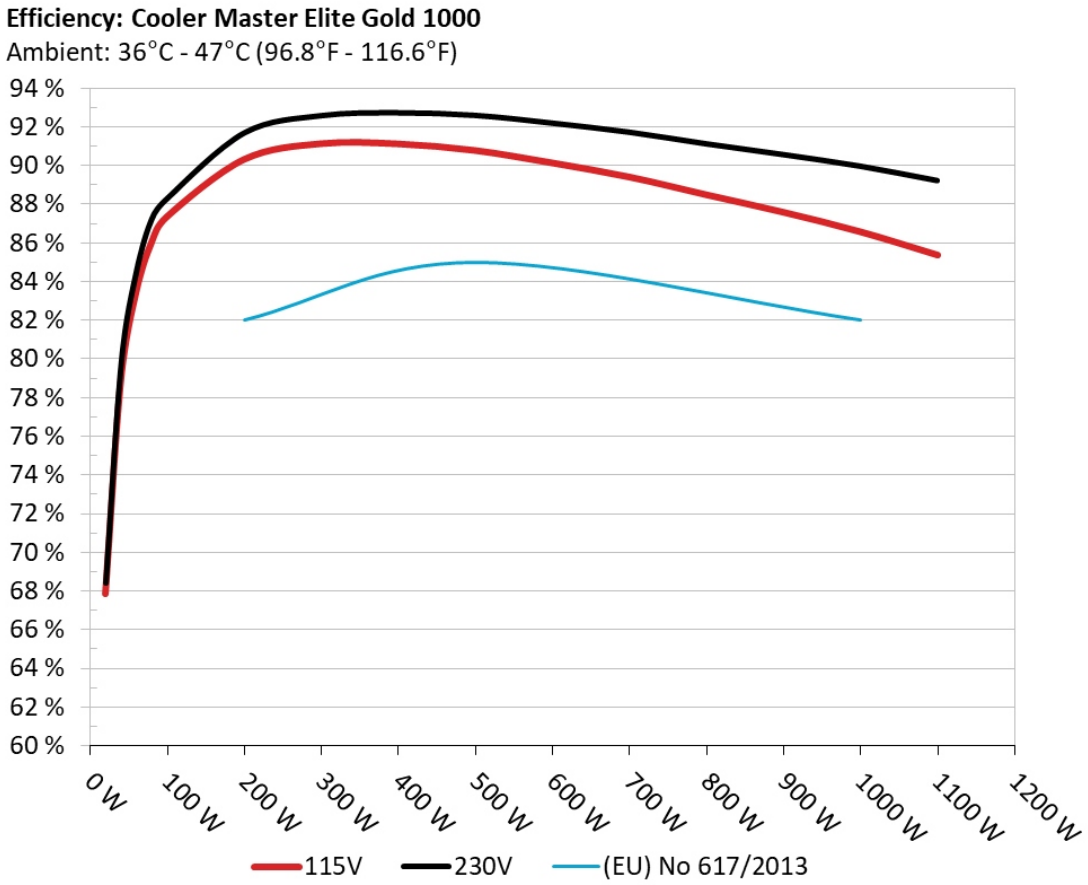
NEUTRAL



PHASE

Indicative Performance

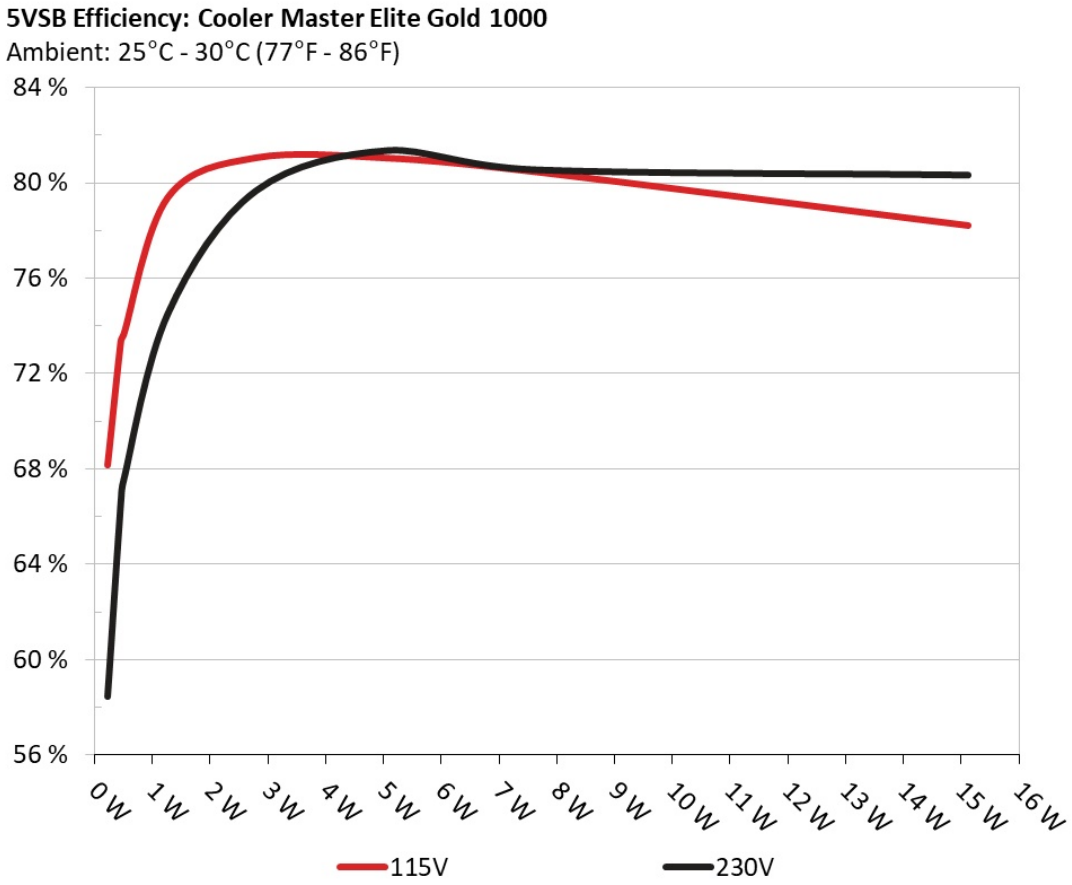
Efficiency under high ambient temperature



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**	0.23W	68.184%	0.055
	5.101V	0.337W		115.04V
2	**0.09A**	0.459W	73.376%	0.097
	5.101V	0.625W		115.04V
3	**0.55A**	2.8W	81.061%	0.289
	5.092V	3.455W		115.04V
4	**1A**	5.083W	81.047%	0.336
	5.083V	6.272W		115.04V
5	**1.5A**	7.61W	80.48%	0.365
	5.073V	9.456W		115.04V
6	**3A**	15.128W	78.224%	0.414
	5.043V	19.338W		115.04V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.23W	58.465%	0.02
	5.101V	0.393W		230.01V
2	**0.09A**	0.459W	66.614%	0.035
	5.101V	0.689W		230V
3	**0.55A**	2.8W	79.656%	0.15
	5.091V	3.516W		230V
4	**1A**	5.083W	81.344%	0.212
	5.083V	6.248W		229.99V
5	**1.5A**	7.61W	80.542%	0.256
	5.073V	9.448W		230V
6	**3A**	15.128W	80.314%	0.314
	5.043V	18.836W		229.99V

Protection Features

OCP (Normal @ 30.9°C)	12V: 98.6A (118.37%), 12.093V — shut down 5V: 23.8A (119%), 4.977V — shut down 3.3V: 24.5A (122.5%), 3.219V — shut down 5VSB: 5.5A (183.33%), 4.989V — shut down
OCP (Hot @ 44.1°C)	12V: 98.4A (118.13%), 12.101V — shut down 5V: 23.7A (118.5%), 4.963V — shut down 3.3V: 23.9A (119.5%), 3.216V — shut down 5VSB: 5.5A (183.33%), 4.985V — shut down
OPP (Normal @ 30.7°C)	1271.12W (127.11%) — shut down
OPP (Hot @ 43.2°C)	1220.62W (122.06%) — shut down
OTP	✓ (162°C @ 12V Heatsink)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓ -12V to Earth: ✓
PWR_OK	Accurate but short
UVP (Typical Load @ 90V)	✓
UVP (No Damage @ 80V)	✓
Conducted Emissions EN 55032 & CISPR 32	✓
NLO	✓
Fan Failure Protection	✗
SIP	Surge: MOV Inrush: NTC & Bypass Relay

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%	**6.478A**	**2.001A**	**2A**	**0.985A**	100	87.333%	855	21.9	40.45°C	0.923
	12.103V	4.998V	3.299V	5.074V	114.505				44.69°C	115.01V
20%	**13.968A**	**3.003A**	**3.003A**	**1.185A**	199.949	90.291%	859	21.9	40.65°C	0.963
	12.102V	4.996V	3.297V	5.063V	221.449				47.31°C	114.97V
30%	**21.809A**	**3.504A**	**3.506A**	**1.385A**	300.003	91.103%	863	22	41.3°C	0.98
	12.103V	4.994V	3.295V	5.053V	329.298				49.5°C	114.94V
40%	**29.610A**	**4.007A**	**4.009A**	**1.587A**	399.553	91.094%	868	22	41.96°C	0.987
	12.102V	4.992V	3.293V	5.042V	438.617				52.11°C	114.91V
50%	**37.081A**	**5.011A**	**5.015A**	**1.789A**	499.274	90.752%	874	22.2	42.18°C	0.99
	12.102V	4.99V	3.29V	5.031V	550.153				54.95°C	114.87V
60%	**44.619A**	**6.016A**	**6.024A**	**1.992A**	599.804	90.107%	881	22.5	42.7°C	0.992
	12.102V	4.987V	3.287V	5.02V	665.655				58.51°C	114.83V
70%	**52.088A**	**7.023A**	**7.034A**	**2.196A**	699.54	89.383%	1372	35	43.39°C	0.993
	12.103V	4.984V	3.285V	5.009V	782.638				59.35°C	114.79V
80%	**59.634A**	**8.026A**	**8.041A**	**2.3A**	799.55	88.465%	1836	42	43.88°C	0.993
	12.101V	4.983V	3.283V	5V	903.802				56.6°C	114.75V
90%	**67.514A**	**8.53A**	**8.533A**	**2.404A**	899.341	87.564%	2115	45.5	44.43°C	0.993
	12.099V	4.981V	3.282V	4.992V	1027.074				57.24°C	114.71V
100%	**75.185A**	**9.036A**	**9.058A**	**3.017A**	999.354	86.555%	2129	45.7	45.42°C	0.993
	12.099V	4.979V	3.279V	4.972V	1154.597				60.88°C	114.67V
110%	**82.780A**	**10.045A**	**10.168A**	**3.022A**	1099.962	85.348%	2140	45.8	47.23°C	0.991
	12.100V	4.977V	3.275V	4.964V	1288.8				65.73°C	114.62V
CL1	**0.116A**	**12.079A**	**12.118A**	**0A**	101.3	79.272%	871	22.1	40.55°C	0.927
	12.112V	4.983V	3.276V	5.083V	127.793				51.99°C	115V

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**	**20.098A**	**0A**	**0A**	101.343	77.489%	863	22	40.51°C	0.929
	12.110V	4.973V	3.286V	5.086V	130.786				49.22°C	115V
CL3	**0.114A**	**0A**	**20.49A**	**0A**	67.397	70.021%	861	22	41.39°C	0.9
	12.107V	4.989V	3.222V	5.086V	96.255				50.06°C	115.02V
CL4	**82.646A**	**0A**	**0A**	**0A**	999.923	87.529%	2132	45.7	45.74°C	0.993
	12.099V	4.991V	3.292V	5.043V	1142.399				59.19°C	114.67V

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%	**6.478A**	**2.001A**	**2.004A**	**0.986A**	100.006	88.329%	856	21.9	40.21°C	0.808
	12.103V	4.998V	3.294V	5.073V	113.217				44.89°C	229.99V
20%	**13.972A**	**3.003A**	**3.011A**	**1.185A**	199.957	91.71%	859	21.9	40.92°C	0.902
	12.100V	4.996V	3.289V	5.063V	218.031				46.39°C	229.97V
30%	**21.819A**	**3.504A**	**3.516A**	**1.386A**	300.013	92.601%	863	22	41.16°C	0.938
	12.098V	4.994V	3.285V	5.052V	323.984				47.73°C	229.95V
40%	**29.629A**	**4.007A**	**4.022A**	**1.587A**	399.582	92.745%	867	22	41.85°C	0.957
	12.095V	4.992V	3.282V	5.042V	430.839				49.88°C	229.94V
50%	**37.109A**	**5.011A**	**5.037A**	**1.789A**	499.294	92.614%	873	22.2	42.1°C	0.966
	12.094V	4.99V	3.276V	5.031V	539.114				51.96°C	229.92V
60%	**44.656A**	**6.016A**	**6.055A**	**1.993A**	599.819	92.213%	880	22.5	42.66°C	0.972
	12.092V	4.987V	3.271V	5.019V	650.471				54.25°C	229.9V
70%	**52.139A**	**7.023A**	**7.077A**	**2.197A**	699.553	91.746%	1295	34.2	43.22°C	0.976
	12.091V	4.985V	3.265V	5.008V	762.479				54.63°C	229.88V
80%	**59.701A**	**8.026A**	**8.097A**	**2.3A**	799.561	91.143%	1797	41.7	43.74°C	0.98
	12.088V	4.983V	3.261V	4.999V	877.259				52.38°C	229.86V
90%	**67.599A**	**8.53A**	**8.596A**	**2.405A**	899.367	90.59%	2115	45.5	44.64°C	0.983
	12.084V	4.982V	3.258V	4.99V	992.785				53.45°C	229.85V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	**75.292A**	**9.035A**	**9.128A**	**3.018A**	999.378	89.993%	2127	45.7	45.32°C	0.985
	12.082V	4.98V	3.254V	4.971V	1110.506				55.23°C	229.82V
110%	**82.911A**	**10.045A**	**10.253A**	**3.023A**	1099.982	89.243%	2139	45.8	47.39°C	0.987
	12.081V	4.977V	3.248V	4.963V	1232.575				58.92°C	229.8V
CL1	**0.116A**	**12.078A**	**12.221A**	**0A**	101.303	80.545%	871	22.1	41°C	0.824
	12.110V	4.983V	3.249V	5.083V	125.776				50.53°C	229.99V
CL2	**0.116A**	**20.099A**	**0A**	**0A**	101.347	78.63%	866	22	40.62°C	0.829
	12.109V	4.973V	3.285V	5.086V	128.889				50.04°C	229.98V
CL3	**0.115A**	**0A**	**20.484A**	**0A**	67.402	71.15%	863	22	40.71°C	0.771
	12.108V	4.988V	3.222V	5.085V	94.732				49.8°C	229.99V
CL4	**82.767A**	**0A**	**0A**	**0A**	999.952	90.845%	2133	45.7	45.83°C	0.985
	12.081V	4.991V	3.291V	5.042V	1100.736				54.61°C	229.83V

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**	**0.5A**	**0.5A**	**0.196A**	20.006	67.846%	847	21.6	36.29°C	0.753
	12.105V	5.001V	3.302V	5.095V	29.486				40.21°C	115.03V
40W	**2.701A**	**0.7A**	**0.7A**	**0.294A**	40.002	78.879%	851	21.7	37.68°C	0.828
	12.103V	5V	3.301V	5.092V	50.713				41.49°C	115.03V
60W	**4.175A**	**0.9A**	**0.9A**	**0.393A**	60	83.469%	852	21.7	38.82°C	0.872
	12.103V	5V	3.301V	5.089V	71.881				42.89°C	115.02V
80W	**5.644A**	**1.1A**	**1.1A**	**0.492A**	79.948	86.009%	853	21.8	39.29°C	0.899
	12.104V	5V	3.301V	5.086V	92.953				43.85°C	115.02V

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	**1.228A**	**0.5A**	**0.5A**	**0.196A**	20.003	68.435%	848	21.6	36.78°C	0.513
	12.103V	5.001V	3.301V	5.096V	29.229				40.71°C	230V
40W	**2.702A**	**0.7A**	**0.7A**	**0.295A**	40.002	79.828%	850	21.6	37.76°C	0.639
	12.103V	5V	3.299V	5.092V	50.111				41.89°C	230V
60W	**4.176A**	**0.9A**	**0.9A**	**0.393A**	60.001	84.591%	852	21.6	38.64°C	0.719
	12.103V	5V	3.299V	5.089V	70.936				42.76°C	229.99V
80W	**5.646A**	**1.1A**	**1.101A**	**0.492A**	79.951	87.289%	854	21.7	39.37°C	0.767
	12.103V	5V	3.298V	5.086V	91.596				43.59°C	229.99V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	26.76mV	18.75mV	18.41mV	17.75mV	Pass
20% Load	30.44mV	19.26mV	20.05mV	18.06mV	Pass
30% Load	30.08mV	20.03mV	19.49mV	17.65mV	Pass
40% Load	29.11mV	17.98mV	18.93mV	17.75mV	Pass
50% Load	29.26mV	18.65mV	19.28mV	17.80mV	Pass
60% Load	31.41mV	18.60mV	20.00mV	17.85mV	Pass
70% Load	32.44mV	19.26mV	20.51mV	18.82mV	Pass
80% Load	34.74mV	19.92mV	21.95mV	18.26mV	Pass
90% Load	36.43mV	23.04mV	23.94mV	21.02mV	Pass
100% Load	39.87mV	23.01mV	24.47mV	20.48mV	Pass
110% Load	39.58mV	21.56mV	24.50mV	21.80mV	Pass
Crossload1	27.13mV	17.09mV	20.22mV	16.29mV	Pass
Crossload2	29.67mV	24.06mV	20.72mV	16.93mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	28.03mV	19.36mV	25.73mV	19.23mV	Pass
Crossload4	35.91mV	19.56mV	20.47mV	19.02mV	Pass

The results above are not used in the certification process

230V

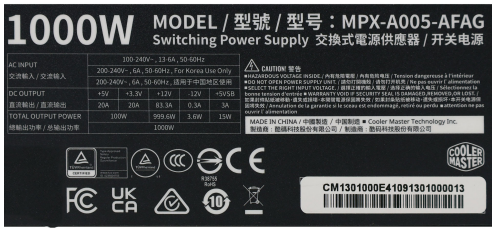
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	27.42mV	20.74mV	29.92mV	19.08mV	Pass
20% Load	28.96mV	18.13mV	18.26mV	17.91mV	Pass
30% Load	29.93mV	18.39mV	19.34mV	17.70mV	Pass
40% Load	29.42mV	18.75mV	19.54mV	17.70mV	Pass
50% Load	29.32mV	18.14mV	19.18mV	17.80mV	Pass
60% Load	31.77mV	19.42mV	20.41mV	19.13mV	Pass
70% Load	31.98mV	19.21mV	19.95mV	18.62mV	Pass
80% Load	34.58mV	21.66mV	22.71mV	19.23mV	Pass
90% Load	35.25mV	21.87mV	21.38mV	19.03mV	Pass
100% Load	36.55mV	18.77mV	20.61mV	17.85mV	Pass
110% Load	40.90mV	20.22mV	21.20mV	18.72mV	Pass
Crossload1	26.06mV	17.50mV	19.58mV	16.58mV	Pass
Crossload2	28.90mV	22.68mV	20.46mV	18.62mV	Pass
Crossload3	27.27mV	19.16mV	25.12mV	18.92mV	Pass
Crossload4	36.62mV	18.81mV	18.83mV	16.63mV	Pass

The results above are not used in the certification process

Cooler Master Elite Gold 1000W



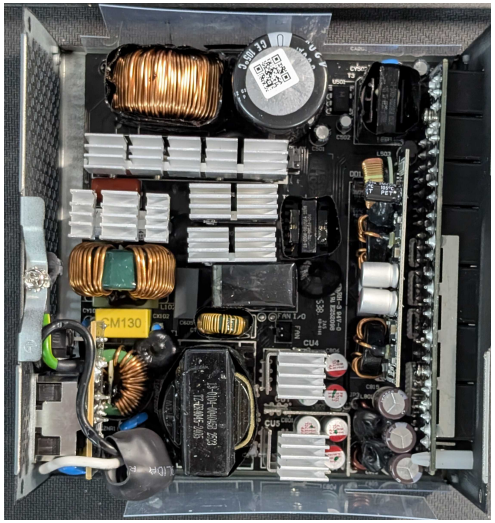
Top side



Power specifications label



Fan



PSU Internals

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