MICRONICS

Micronics Wizmax P-1200W

Serial Number -

Lab ID MI12003425

Certification ID 263425

Test Result Report ID: 26PS3425A

Certificate Issue Date: Sep 24, 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	Micronics
Model	Wizmax P-1200W
OEM/ODM	Great Wall
Serial Number	-
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240

Rated Current (Arms)	8-15
Rated Frequency (Hz)	50-60
Rated Power (W)	1200
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 150mm
Weight	1.56 kg (3.43 lb)
Cooling	140mm Dual Ball Bearing Fan (HA1425M12B-Z)
Semi-Passive Operation	✗
Cybenetics Testing Information	
Lab ID	MI12003425
Date of receipt	Sep 8, 2026
Testing Date	Sep 21, 2026
Report Issued Date	Sep 24, 2026
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**	In Cable Capacitors
ATX connector 20+4 pin (610mm)	1	1	16-18AWG	No
4+4 pin EPS12V (750mm)	2	2	18AWG	No
6+2 pin PCIe (675mm)	3	3	18AWG	No
12+4 pin PCIe (675mm) (600W)	1	1	16-24AWG	No
SATA (400mm+150mm+150mm)	2	6	18AWG	No

Modular Cables				
4-pin Molex (400mm+150mm+150mm)	1	3	18AWG	No

Protection Features

Over Voltage Protection	✓
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**
Max. Power	**Amps**	25	25	100	3
	Watts	125		1200	15
Total Max. Power (W)		1200			

Parts Description

General Data	
Manufacturer (OEM)	Great Wall
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	NTC Thermistor SCK-205R0 (5Ohm @ 25°C) & Relay
Bridge Rectifier	2x Vishay GBUE2560 (600V, 25A @ 140°C)
APFC Transphorm	1x Renesas TP65H035G4YS (650V, 29.5A @ 100°C, Rds(on): 0.041Ohm)
APFC Boost Diode	1x Wolfspeed C3D16065D (650V, 16A @ 150°C)
Bulk Cap(s)	2x Elite (420V, 470uF each or 940uF combined, 2000h @ 105°C,PL)

Main Switchers	2x Infineon IPW60R070CFD7 (600V, 20A @ 100°C, Rds(on): 0.07Ohm)
APFC Controller	Champion CM6502UHHX
Resonant Controller	Champion CM6901X
No-Load Consumption IC	Sync Power SPN5003A (reducing no-load consumption)
IC Driver	1x Novosense NSi6602
Topology	Primary side: APFC, Half-Bridge & LLC Resonant Converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	6x Infineon BSC007N04LS6 (40V, 269A @ 100°C, Rds(on): 0.007mOhm)
5V & 3.3V	DC-DC Converters: 4x AP4024GEMT-HF (30V, 20.9A @ 25°C, Rds(on): 4.5mOhm) PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic: 7x Elite (3000~5000h @ 105°C, EJ), 3x Rubycon (4000~10000h @ 105°C, YXJ), 3x Elite (5000h @ 105°C, EY) Polymer: 13x FPCap, 16x Elite
Supervisor IC	Weltrend WT7681P
Fan Model	Hong Hua HA1425M12B-Z (140mm, 12V, 0.36A, Dual Ball Bearing Fan)
5VSB Circuit	
Rectifier	DIODES DMT6005LSS
Standby PWM Controller	No Info

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	✓
Conducted Emissions EN 55032 & CISPR 32	Passed

Performance Summary

115V

Accredited	
Average Efficiency (>1450 load combinations)	90.280%
Average Noise Output (>1450 Load Combinations)	25.97dBA
Average PF (>1450 Load Combinations)	0.987
Efficiency With 10W (≤500W) or 2% (>500W) Load	74.912%
Standby Power Consumption	0.0475W
Non-Accredited	
12V Ripple (Full Load)	34.14mV
5V Ripple (Full Load)	16.06mV
3.3V Ripple (Full Load)	12.92mV
5VSB Ripple (Full Load)	14.73mV
12V Load Regulation	0.46%
5V Load Regulation	0.61%
3.3V Load Regulation	0.69%
5VSB Load Regulation	2.47%
Inrush Current	34.500A

230V

Accredited	
Average Efficiency (>1450 load combinations)	91.792%
Average Noise Output (>1450 Load Combinations)	26.09dBA
Average PF (>1450 Load Combinations)	0.960
Efficiency With 10W (≤500W) or 2% (>500W) Load	73.029%
Standby Power Consumption	0.1337W
Non-Accredited	
12V Ripple (Full Load)	34.04mV
5V Ripple (Full Load)	15.51mV
3.3V Ripple (Full Load)	14.50mV

5VSB Ripple (Full Load)		14.98mV
12V Load Regulation		0.50%
5V Load Regulation		0.61%
3.3V Load Regulation		0.75%
5VSB Load Regulation		2.49%
Inrush Current		80.300A
12V Transient Response (200%)		11.16V
5V Transient Response (200%)		4.932V
3.3V Transient Response (200%)		3.225V
5VSB Transient Response (200%)		4.981V
Hold-Up Time & PWR_OK Signal		15.80ms
AC Loss to PWR_OK Hold Up Time		13.20ms
PWR_OK Inactive to DC Loss Delay		2.60ms
PSU Timings: T1 (20% / 100%)	49.0ms	52.0ms
PSU Timings: T3 (20% / 100%)	124.0ms	124.0ms
12V OCP (29.5°C / 43.7°C)	128.000A (128.00%), 12.031V — shut down	124.400A (124.40%), 12.040V — shut down
5V OCP (29.5°C / 43.7°C)	34.300A (137.20%), 5.058V — shut down	31.400A (125.60%), 5.062V — shut down
3.3V OCP (29.5°C / 43.7°C)	33.900A (135.60%), 3.312V — shut down	33.500A (134.00%), 3.315V — shut down
5VSB OCP (29.5°C / 43.7°C)	5.800A (193.33%), 5.105V — shut down	5.500A (183.33%), 5.099V — shut down
OPP (28.48°C / 43.11°C)	125.78%	123.25%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	15.8
AC Loss to PWR_OK Hold Up Time (ms)	13.2
PWR_OK Inactive to DC Loss Delay (ms)	2.6

Stromverbrauch im Ruhezustand

Tables

115V

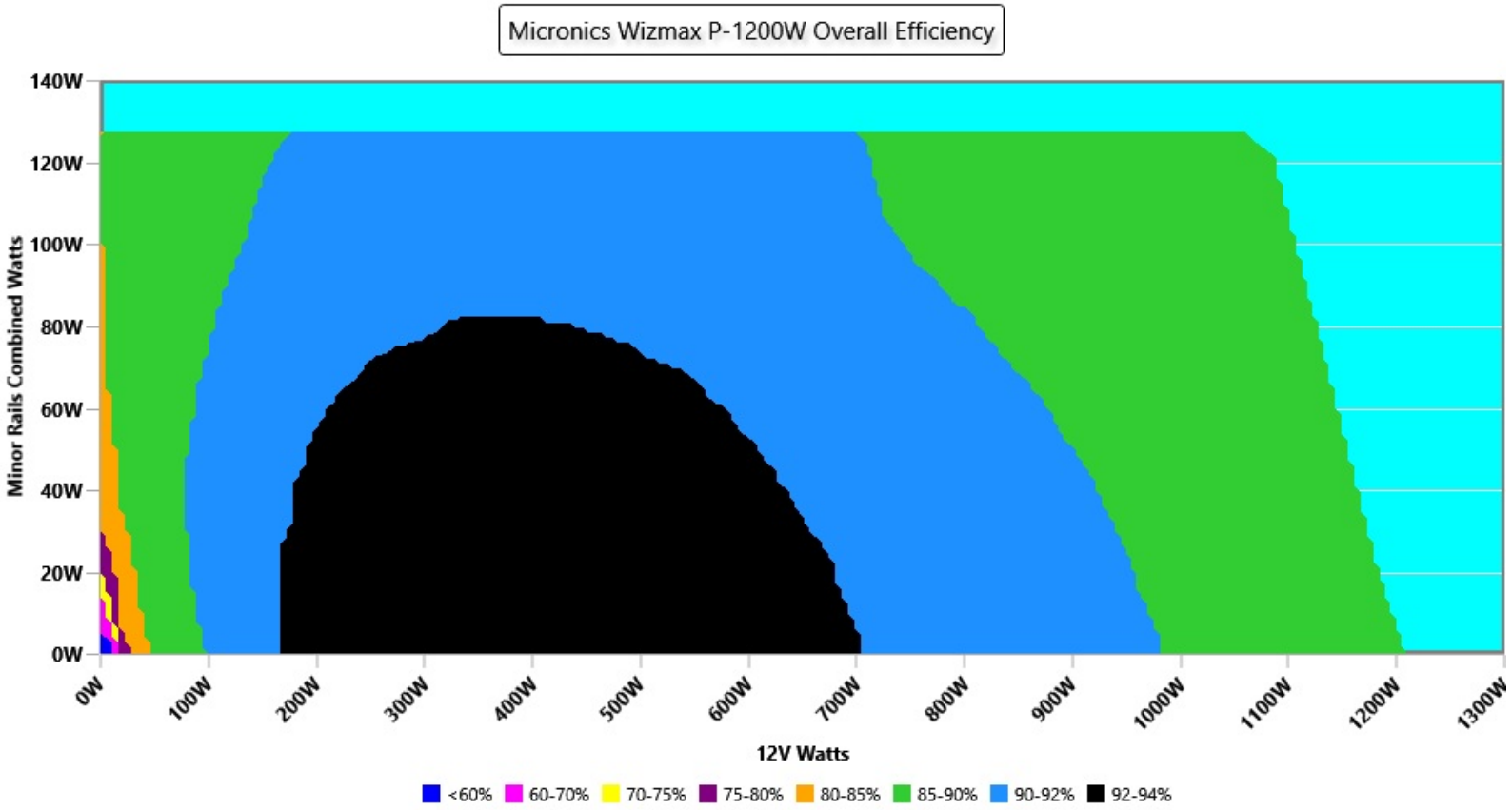
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	114.98 V	114.95 V	113.85 V	114.99 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.94 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.417	1.490	PASS
Mains Voltage THD:	0.13 %	0.09 %	N/A	0.18 %	2.00 %	PASS
Real Power:	0.047 W	0.002 W	N/A	0.088 W	N/A	N/A
Apparent Power:	10.316 W	10.293 W	N/A	10.339 W	N/A	N/A
Power Factor:	0.006	N/A	N/A	N/A	N/A	N/A

230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	229.97 V	229.94 V	227.70 V	229.98 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:	0.134 W	0.085 W	N/A	0.228 W	N/A	N/A
Apparent Power:	33.626 W	33.593 W	N/A	33.657 W	N/A	N/A
Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

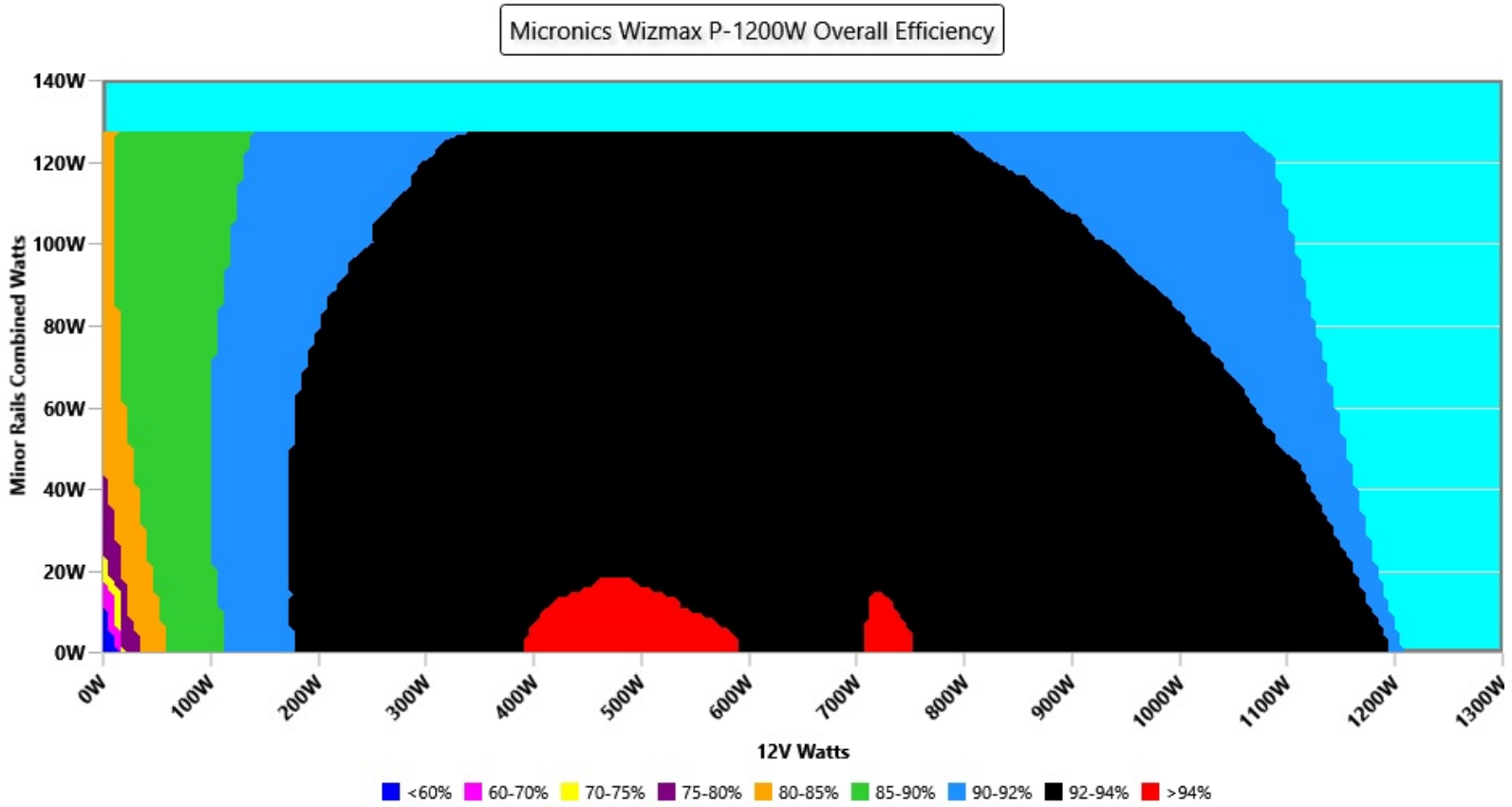
115V



INFO

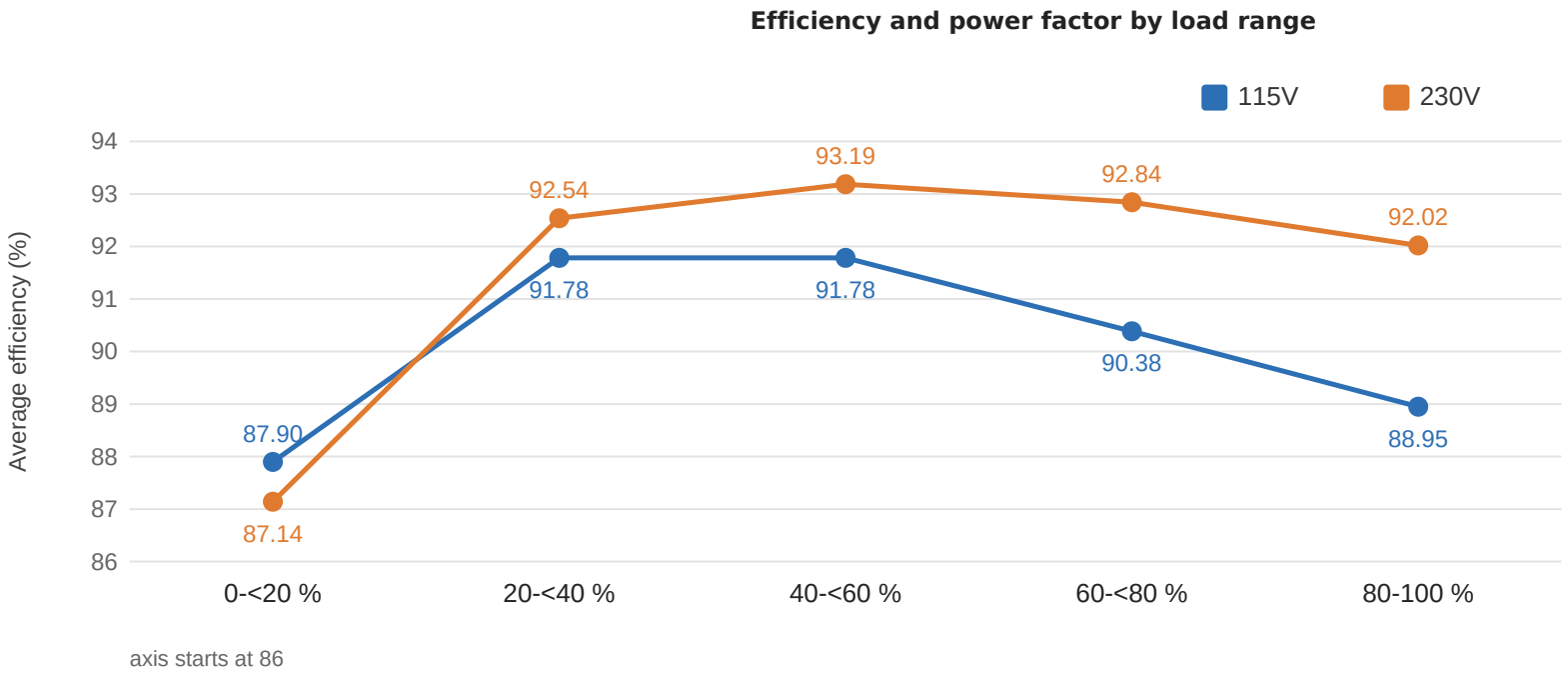
This graph depicts the PSU`s efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

230V

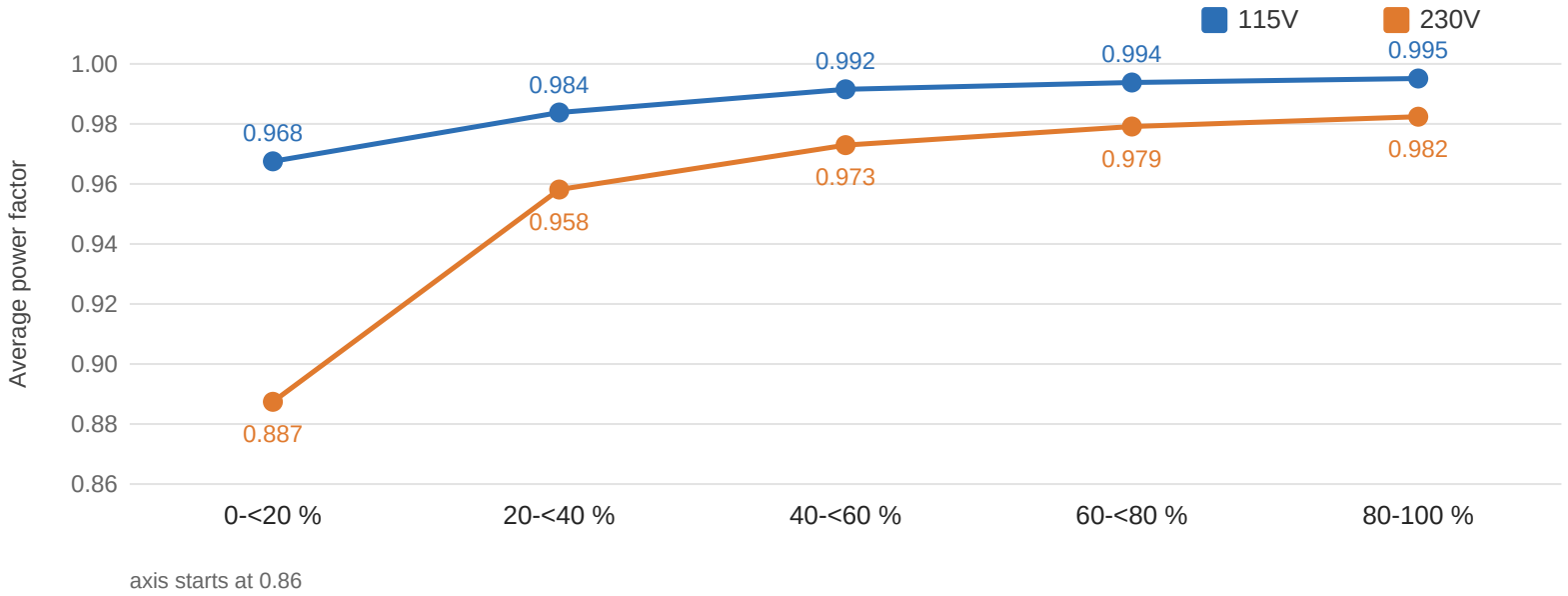


INFO

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 86



axis starts at 0.86

Load range	Points	Efficiency 115V	Efficiency 230V	PF 115V	PF 230V
0-<20 %	228 / 228	87.90%	87.14%	0.968	0.887
20-<40 %	310 / 310	91.78%	92.54%	0.984	0.958
40-<60 %	310 / 310	91.78%	93.19%	0.992	0.973
60-<80 %	310 / 310	90.38%	92.84%	0.994	0.979
80-100 %	316 / 316	88.95%	92.02%	0.995	0.982
70-100 % (High-Load)	471 / 471	89.29%	92.23%	0.995	0.982
All (published average)	1474 / 1474	90.28%	91.79%	0.987	0.960

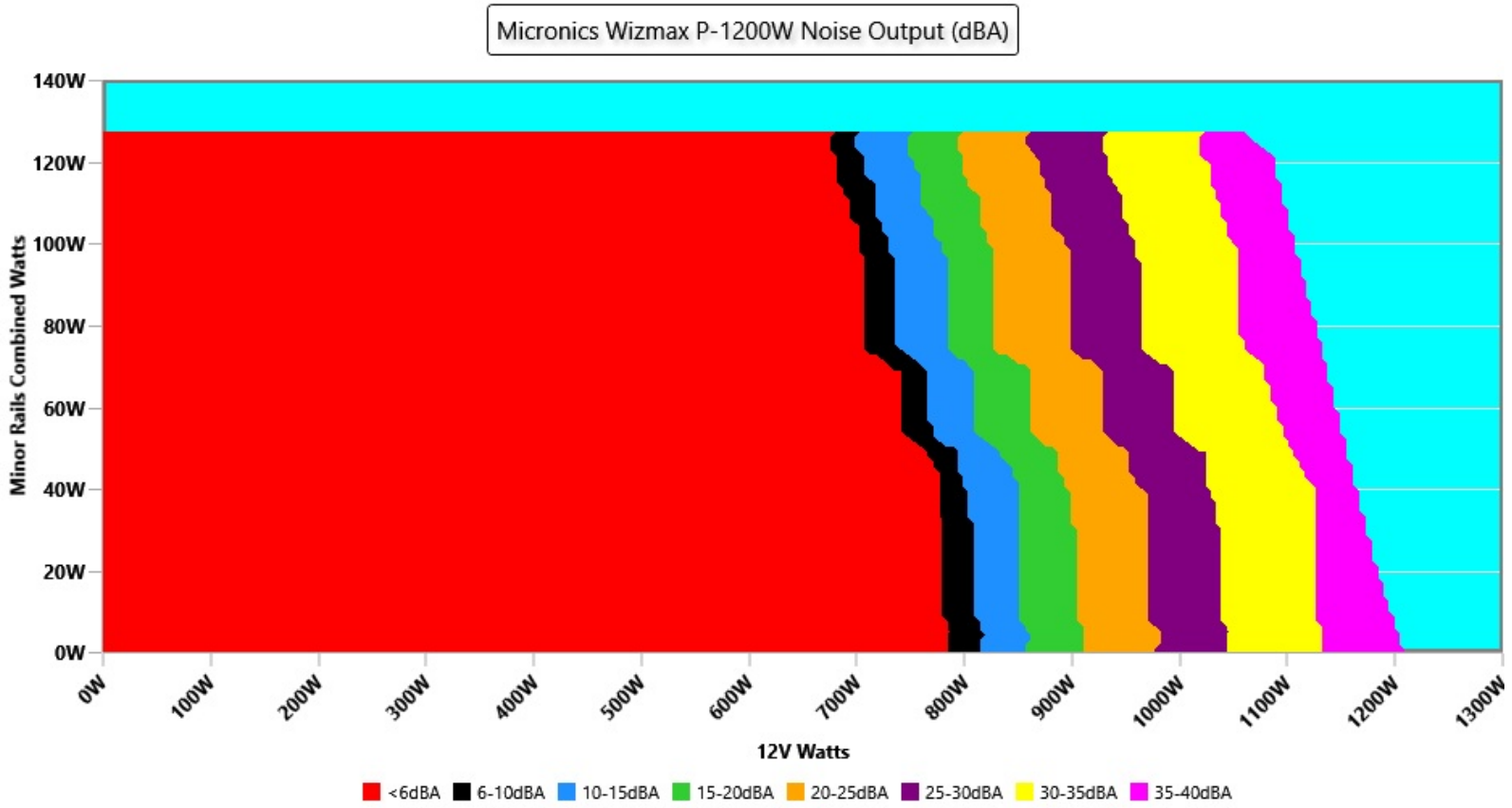
INFO

The average efficiency and power factor in five ranges of load. Calculated from the 1474 (115V) and 1474 (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 1200 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

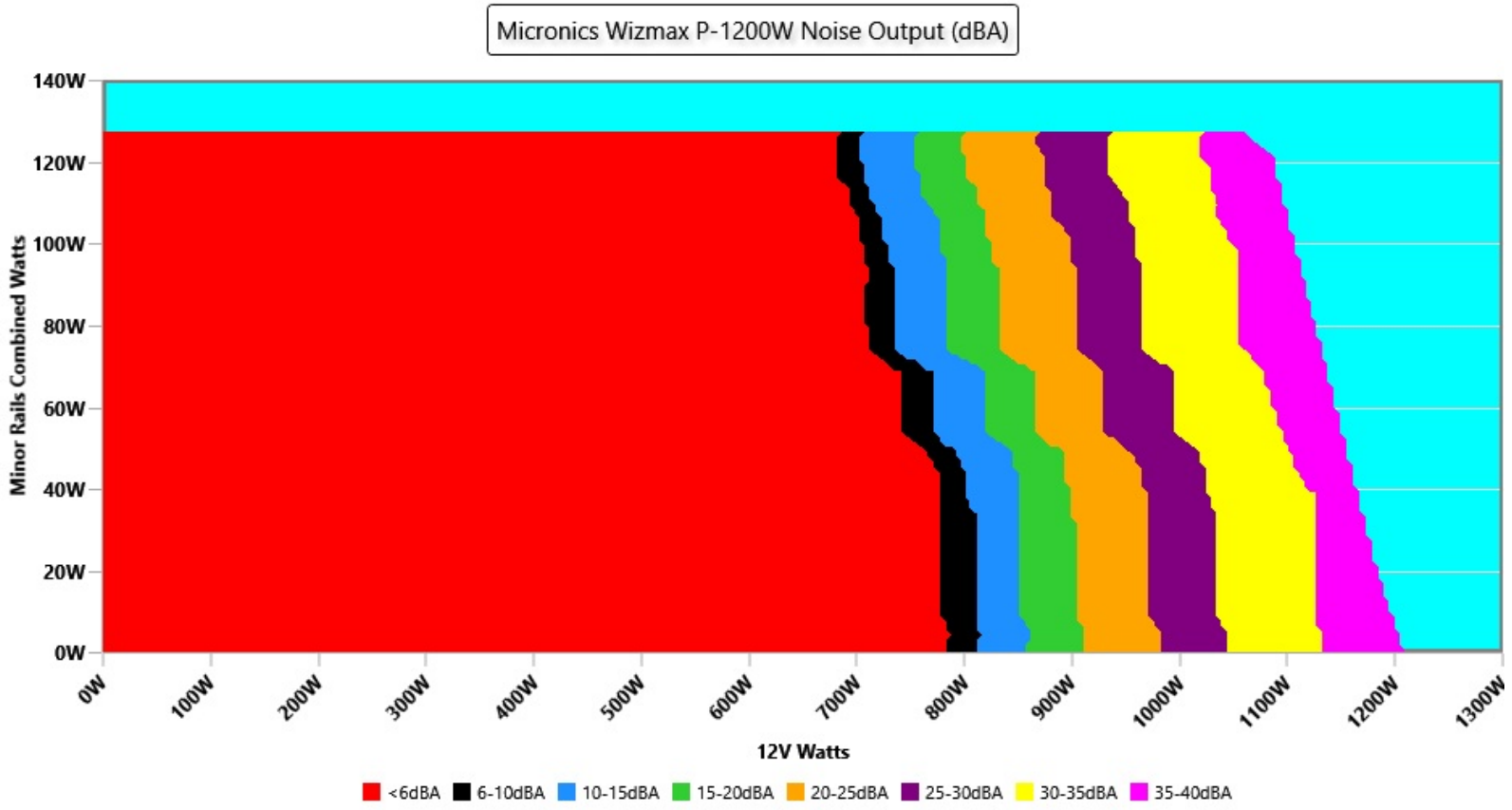
115V



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

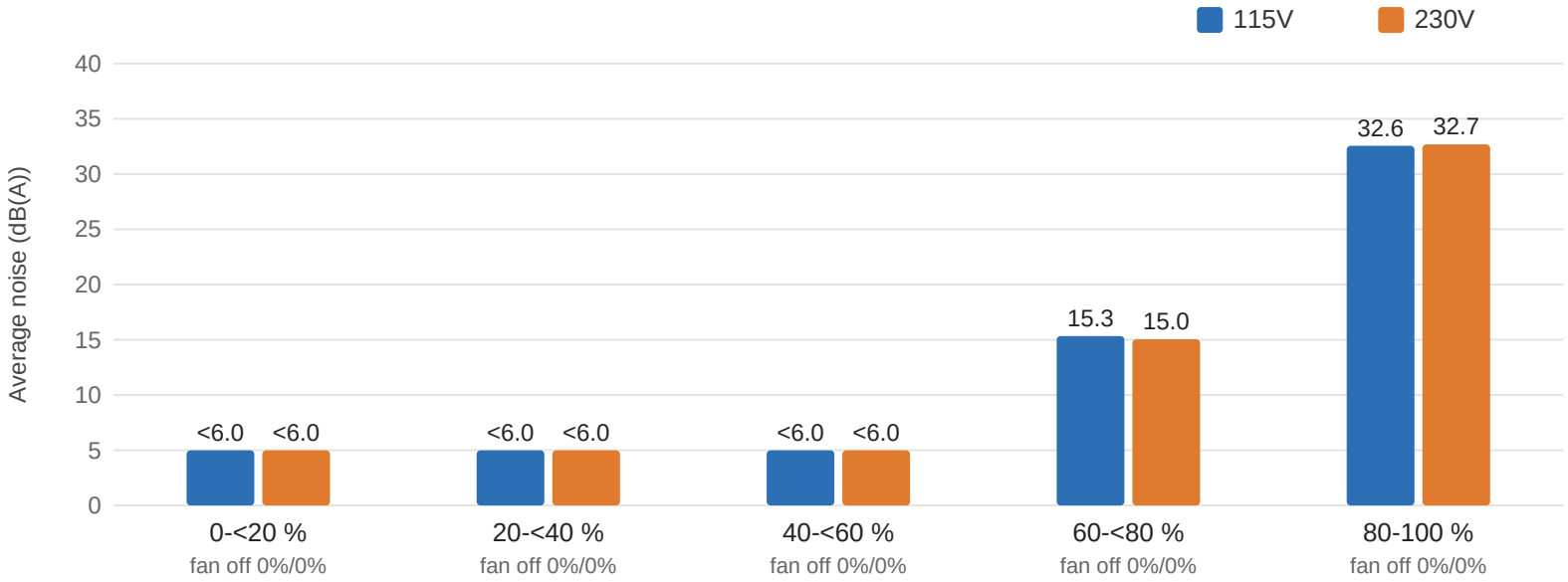
The PSU`s noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

Noise by load range

High-Load Index (70-100 % load)

Noise **30.9 dB(A)** at 115V and **31.0 dB(A)** at 230V · loudest point 37.7 dB(A)

Efficiency 89.29% / 92.23% · power factor 0.995 / 0.982 (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)	0% / 0%
20-<40 %	<6.0 (<6.0)	<6.0 (<6.0)	0% / 0%
40-<60 %	<6.0 (<6.0)	<6.0 (<6.0)	0% / 0%
60-<80 %	15.3 (22.9)	15.0 (22.9)	0% / 0%
80-100 %	32.6 (37.7)	32.7 (37.7)	0% / 0%
70-100 % (High-Load)	30.9 (37.7)	31.0 (37.7)	0% / 0%
All (published average)	26.0 (37.7)	26.1 (37.7)	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 1474 (115V) and 1474 (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 1200 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%	313 RPM · <6.0 dB(A) · 30.1 °C	321 RPM · <6.0 dB(A) · 40.2 °C	<6.0 in both
20%	313 RPM · <6.0 dB(A) · 30.1 °C	322 RPM · <6.0 dB(A) · 40.8 °C	<6.0 in both
50%	313 RPM · <6.0 dB(A) · 30.5 °C	324 RPM · <6.0 dB(A) · 42.2 °C	<6.0 in both
100%	313 RPM · <6.0 dB(A) · 31.0 °C	1382 RPM · 38.3 dB(A) · 45.8 °C	<6.0 → 38.3 dB(A)

230V

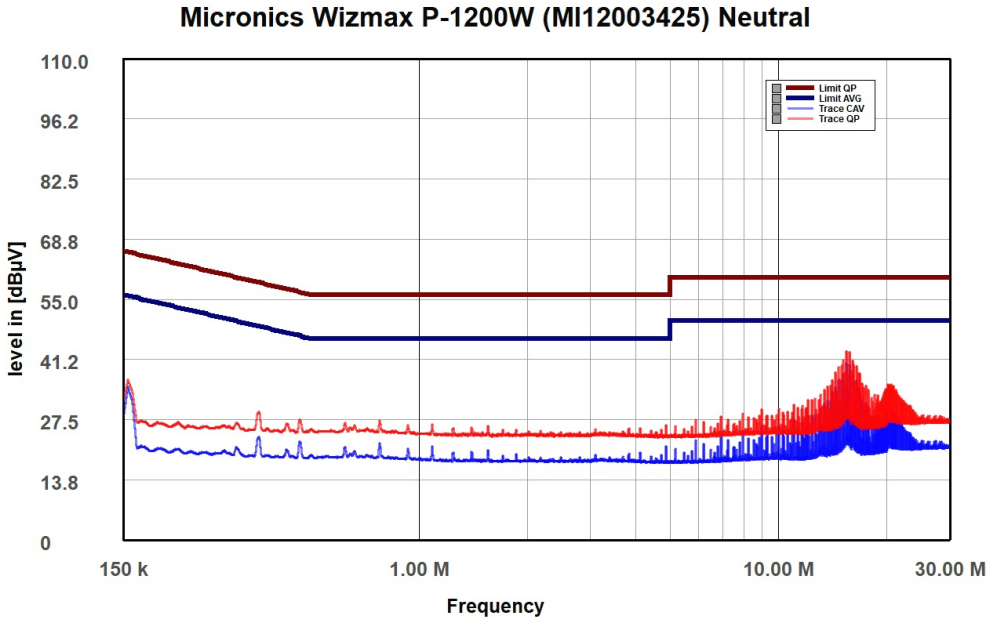
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	313 RPM · <6.0 dB(A) · 30.7 °C	322 RPM · <6.0 dB(A) · 40.3 °C	<6.0 in both
20%	318 RPM · <6.0 dB(A) · 30.7 °C	322 RPM · <6.0 dB(A) · 40.9 °C	<6.0 in both
50%	319 RPM · <6.0 dB(A) · 30.5 °C	341 RPM · <6.0 dB(A) · 42.3 °C	<6.0 in both
100%	1274 RPM · 36.3 dB(A) · 32.0 °C	1434 RPM · 39.2 dB(A) · 45.1 °C	**+2.9 dB(A)**

INFO

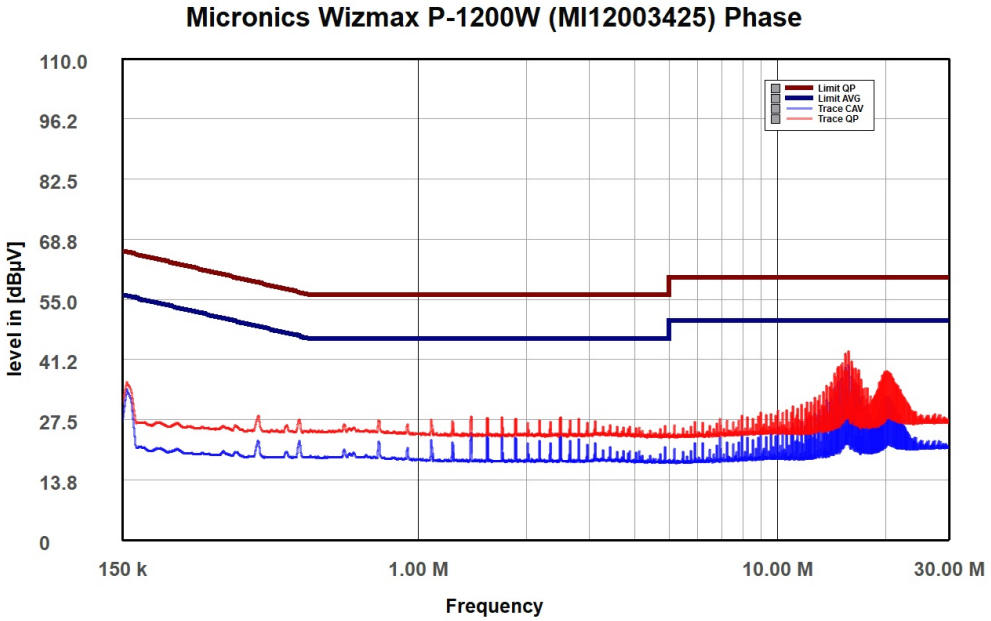
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative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



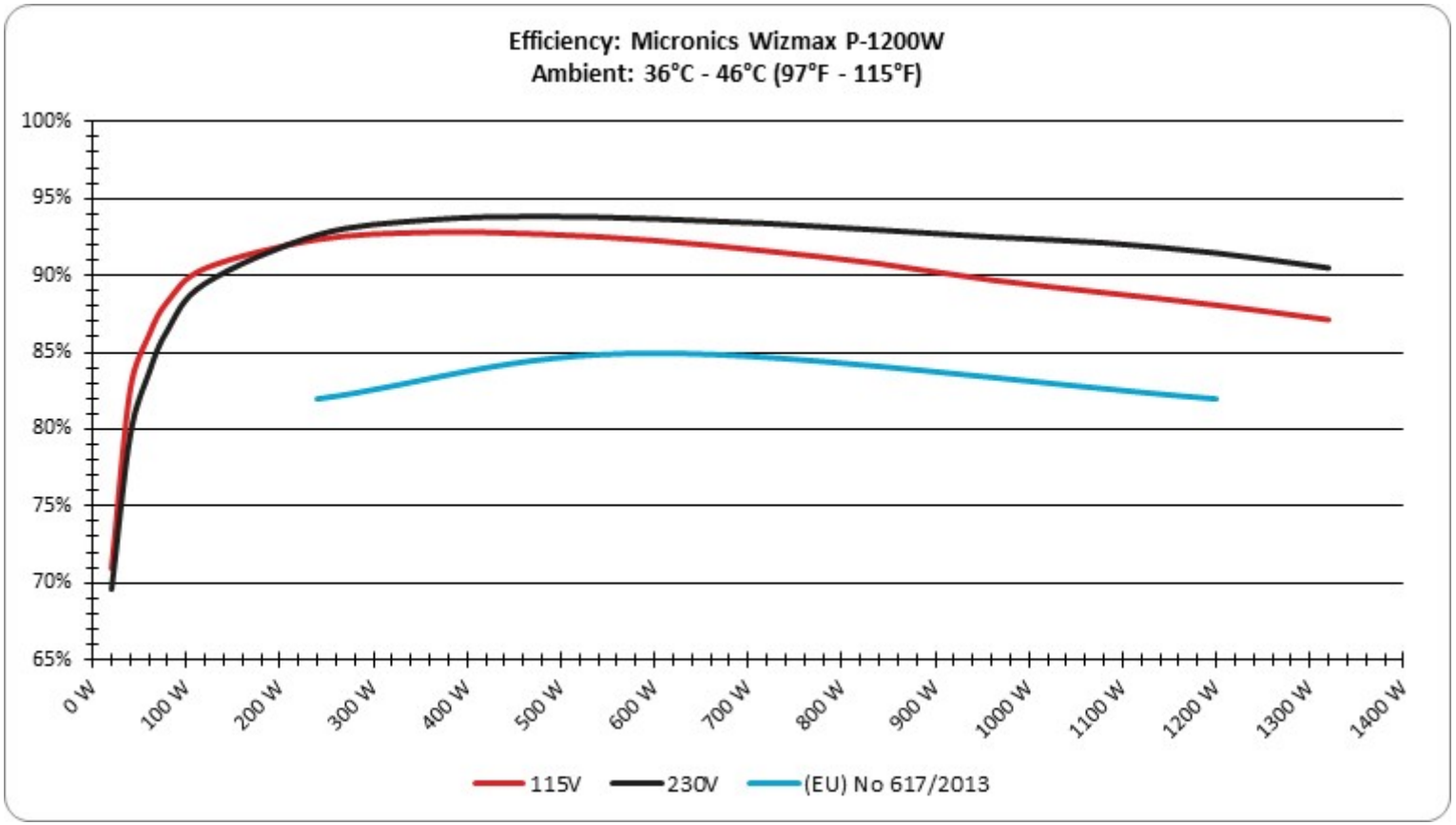
NEUTRAL



PHASE

Indicative Performance

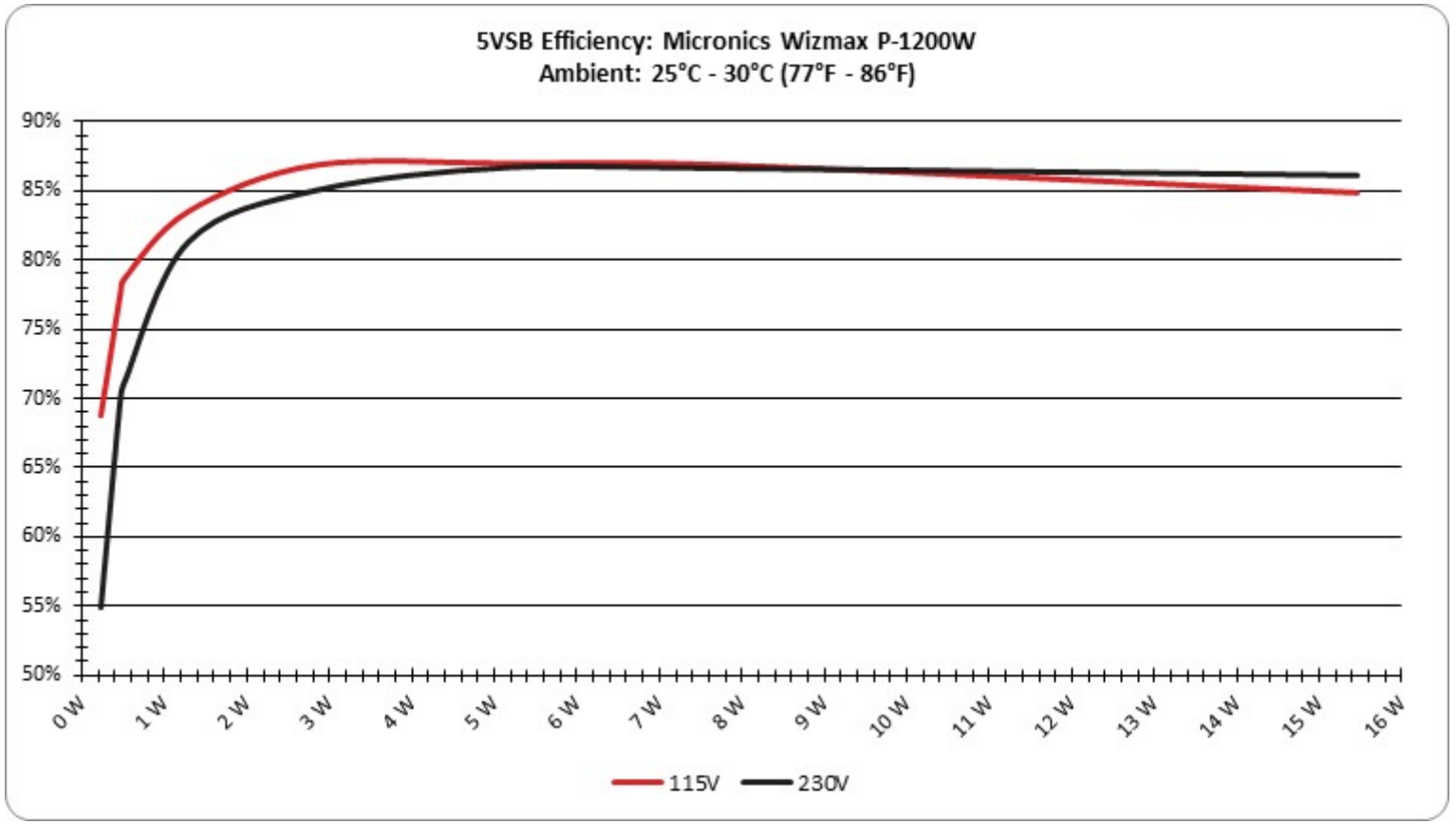
Efficiency under high ambient temperature



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**	0.234W	68.743%	0.034
	5.196V	0.34W		114.96V
2	**0.09A**	0.468W	77.476%	0.06
	5.195V	0.604W		114.97V
3	**0.55A**	2.855W	86.852%	0.257
	5.189V	3.287W		114.96V
4	**1A**	5.184W	86.959%	0.357
	5.182V	5.961W		114.96V
5	**1.5A**	7.765W	86.854%	0.41
	5.175V	8.94W		114.96V
6	**3A**	15.461W	84.843%	0.488
	5.153V	18.223W		114.96V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.234W	54.96%	0.013
	5.197V	0.426W		230.08V
2	**0.09A**	0.468W	69.862%	0.021
	5.196V	0.67W		230.07V
3	**0.55A**	2.855W	85.027%	0.097
	5.189V	3.357W		230.07V
4	**1A**	5.184W	86.665%	0.161
	5.182V	5.981W		230.08V
5	**1.5A**	7.765W	86.598%	0.219
	5.175V	8.966W		230.07V
6	**3A**	15.462W	86.086%	0.324
	5.153V	17.961W		230.07V

Protection Features

OCP (Normal @ 29.5°C)	12V: 128A (128%), 12.031V — shut down 5V: 34.3A (137.2%), 5.058V — shut down 3.3V: 33.9A (135.6%), 3.312V — shut down 5VSB: 5.8A (193.33%), 5.105V — shut down
OCP (Hot @ 43.7°C)	12V: 124.4A (124.4%), 12.04V — shut down 5V: 31.4A (125.6%), 5.062V — shut down 3.3V: 33.5A (134%), 3.315V — shut down 5VSB: 5.5A (183.33%), 5.099V — shut down
OVP (per rail)	12V: 14.017V (✓) 5V: 6.174V (✓) 3.3V: 3.9V (✓)
OPP (Normal @ 28.5°C)	1509.39W (125.78%) — shut down
OPP (Hot @ 43.1°C)	1478.99W (123.25%) — shut down
OTP	✓ (126°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%	**8.119A**	**1.959A**	**1.974A**	**0.967A**	120.024	90.449%	321	<6.0	40.15°C	0.971
	12.122V	5.107V	3.344V	5.172V	132.698				42.59°C	114.9V
20%	**17.257A**	**2.94A**	**2.962A**	**1.163A**	240	92.322%	322	<6.0	40.78°C	0.979
	12.117V	5.104V	3.343V	5.161V	259.96				45.87°C	114.86V
30%	**26.697A**	**3.431A**	**3.458A**	**1.359A**	359.405	92.789%	324	<6.0	41.47°C	0.984
	12.112V	5.102V	3.34V	5.15V	387.334				48.16°C	114.84V
40%	**36.222A**	**3.923A**	**3.954A**	**1.557A**	479.729	92.676%	324	<6.0	41.78°C	0.989
	12.106V	5.099V	3.339V	5.14V	517.641				47.29°C	114.82V
50%	**45.368A**	**4.907A**	**4.947A**	**1.756A**	599.485	92.263%	324	<6.0	42.22°C	0.992
	12.100V	5.096V	3.336V	5.128V	649.756				40.1°C	114.79V
60%	**54.583A**	**5.892A**	**5.939A**	**1.955A**	720.022	91.575%	343	<6.0	42.89°C	0.993
	12.095V	5.093V	3.334V	5.116V	786.266				54.11°C	114.76V
70%	**63.744A**	**6.879A**	**6.934A**	**2.155A**	839.736	90.75%	760	21.0	43.65°C	0.995
	12.090V	5.089V	3.332V	5.104V	925.327				61.66°C	114.73V
80%	**72.985A**	**7.865A**	**7.931A**	**2.258A**	959.723	89.692%	981	28.9	43.56°C	0.995
	12.083V	5.086V	3.328V	5.094V	1070.023				61.98°C	114.7V
90%	**82.563A**	**8.361A**	**8.418A**	**2.361A**	1079.534	88.87%	1182	33.9	44.41°C	0.995
	12.076V	5.083V	3.326V	5.083V	1214.733				63.43°C	114.66V
100%	**91.965A**	**8.857A**	**8.937A**	**2.962A**	1199.606	88.052%	1382	38.3	45.8°C	0.996
	12.069V	5.081V	3.323V	5.065V	1362.377				63.75°C	114.62V
110%	**101.299A**	**9.848A**	**10.026A**	**2.967A**	1320.204	87.1%	1689	43.7	46.25°C	0.996
	12.062V	5.077V	3.321V	5.056V	1515.737				67.26°C	114.6V
CL1	**0.115A**	**14.799A**	**14.813A**	**0A**	126.293	84.235%	325	<6.0	41.84°C	0.973
	12.124V	5.088V	3.348V	5.176V	149.928				63.4°C	114.93V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL2	**0.115A**	**24.627A**	**0A**	**0A**	126.384	81.513%	324	<6.0	41.99°C	0.973
	12.120V	5.076V	3.349V	5.18V	155.048				61.05°C	114.93V
CL3	**0.115A**	**0A**	**24.637A**	**0A**	83.886	76.448%	329	<6.0	41.32°C	0.969
	12.133V	5.107V	3.348V	5.179V	109.73				58.22°C	114.94V
CL4	**99.386A**	**0A**	**0A**	**0A**	1200.112	88.672%	1341	37.6	45.81°C	0.996
	12.075V	5.096V	3.324V	5.118V	1353.421				63.24°C	114.63V

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%	**8.116A**	**1.958A**	**1.973A**	**0.967A**	120.003	89.45%	322	<6.0	40.3°C	0.891
	12.125V	5.107V	3.345V	5.172V	134.156				45.83°C	230.07V
20%	**17.251A**	**2.939A**	**2.962A**	**1.163A**	239.959	92.593%	322	<6.0	40.89°C	0.944
	12.118V	5.104V	3.342V	5.16V	259.155				47.87°C	230.06V
30%	**26.687A**	**3.431A**	**3.458A**	**1.36A**	359.298	93.566%	324	<6.0	41.23°C	0.959
	12.112V	5.102V	3.34V	5.15V	384.004				51.05°C	230.05V
40%	**36.216A**	**3.923A**	**3.954A**	**1.557A**	479.675	93.792%	325	<6.0	41.87°C	0.968
	12.107V	5.099V	3.339V	5.139V	511.427				52.92°C	230.04V
50%	**45.366A**	**4.907A**	**4.946A**	**1.756A**	599.457	93.634%	341	<6.0	42.31°C	0.974
	12.100V	5.096V	3.336V	5.127V	640.215				56.61°C	230.02V
60%	**54.591A**	**5.893A**	**5.941A**	**1.955A**	719.99	93.337%	605	13.8	42.77°C	0.977
	12.093V	5.092V	3.333V	5.115V	771.39				60.63°C	230.01V
70%	**63.765A**	**6.88A**	**6.937A**	**2.156A**	839.716	92.911%	758	21.0	43.05°C	0.979
	12.085V	5.089V	3.33V	5.103V	903.789				60.93°C	229.99V
80%	**73.025A**	**7.866A**	**7.934A**	**2.259A**	959.709	92.468%	891	26.0	43.84°C	0.981
	12.076V	5.086V	3.327V	5.092V	1037.881				60.83°C	229.97V
90%	**82.581A**	**8.361A**	**8.42A**	**2.362A**	1079.437	92.085%	1051	30.8	44.9°C	0.983
	12.072V	5.083V	3.325V	5.082V	1172.219				61.37°C	229.95V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	**91.993A**	**8.858A**	**8.941A**	**2.963A**	1199.563	91.425%	1434	39.2	45.1°C	0.984
	12.065V	5.081V	3.321V	5.064V	1312.067				62.8°C	229.94V
110%	**101.338A**	**9.849A**	**10.032A**	**2.968A**	1320.218	90.452%	1689	43.7	46.26°C	0.985
	12.057V	5.077V	3.319V	5.054V	1459.582				64.79°C	229.91V
CL1	**0.116A**	**14.8A**	**14.832A**	**0A**	126.301	83.551%	329	<6.0	40.34°C	0.904
	12.122V	5.088V	3.344V	5.175V	151.167				59.29°C	230.08V
CL2	**0.115A**	**24.627A**	**0A**	**0A**	126.393	80.927%	324	<6.0	41.29°C	0.906
	12.121V	5.076V	3.349V	5.179V	156.18				57.97°C	230.08V
CL3	**0.115A**	**0A**	**24.658A**	**0A**	83.889	75.572%	329	<6.0	40.62°C	0.872
	12.132V	5.107V	3.346V	5.177V	111.004				56.17°C	230.08V
CL4	**99.433A**	**0A**	**0A**	**0A**	1200.275	91.881%	1389	38.3	45.58°C	0.984
	12.071V	5.096V	3.325V	5.116V	1306.337				61.61°C	229.94V

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	**1.225A**	**0.489A**	**0.493A**	**0.193A**	19.999	70.896%	318	<6.0	36.15°C	0.865
	12.121V	5.112V	3.346V	5.19V	28.209				37.65°C	114.96V
40W	**2.696A**	**0.685A**	**0.69A**	**0.289A**	39.999	82.591%	321	<6.0	37.1°C	0.941
	12.123V	5.112V	3.346V	5.188V	48.43				38.47°C	114.95V
60W	**4.168A**	**0.881A**	**0.888A**	**0.386A**	60.001	86.099%	321	<6.0	38.39°C	0.945
	12.124V	5.111V	3.346V	5.185V	69.688				41.2°C	114.94V
80W	**5.636A**	**1.077A**	**1.085A**	**0.483A**	79.967	88.296%	320	<6.0	39.58°C	0.964
	12.125V	5.11V	3.346V	5.182V	90.568				41.93°C	114.92V

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	**1.226A**	**0.489A**	**0.493A**	**0.193A**	20.009	69.616%	322	<6.0	36.27°C	0.545
	12.122V	5.112V	3.346V	5.19V	28.741				40.51°C	230.07V
40W	**2.698A**	**0.685A**	**0.69A**	**0.289A**	40.005	79.634%	323	<6.0	37.89°C	0.708
	12.119V	5.111V	3.346V	5.187V	50.236				41.34°C	230.07V
60W	**4.170A**	**0.881A**	**0.888A**	**0.386A**	60.001	83.654%	323	<6.0	38.54°C	0.794
	12.119V	5.111V	3.346V	5.184V	71.725				43°C	230.07V
80W	**5.638A**	**1.077A**	**1.085A**	**0.483A**	79.958	86.436%	322	<6.0	39.11°C	0.844
	12.118V	5.11V	3.346V	5.182V	92.505				44.96°C	230.07V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	20.45mV	13.11mV	6.51mV	10.80mV	Pass
20% Load	23.00mV	12.85mV	6.71mV	11.00mV	Pass
30% Load	23.97mV	13.11mV	7.22mV	11.16mV	Pass
40% Load	24.12mV	13.32mV	7.17mV	11.36mV	Pass
50% Load	26.26mV	13.77mV	8.34mV	12.28mV	Pass
60% Load	32.67mV	14.08mV	9.36mV	12.28mV	Pass
70% Load	33.69mV	14.08mV	9.71mV	13.81mV	Pass
80% Load	29.41mV	14.44mV	11.75mV	13.91mV	Pass
90% Load	31.35mV	14.69mV	12.77mV	14.52mV	Pass
100% Load	34.14mV	16.06mV	12.92mV	14.73mV	Pass
110% Load	37.60mV	16.32mV	15.51mV	15.59mV	Pass
Crossload1	22.39mV	14.18mV	12.67mV	12.23mV	Pass
Crossload2	21.68mV	15.86mV	6.76mV	12.53mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	24.98mV	13.42mV	17.19mV	12.43mV	Pass
Crossload4	32.26mV	16.22mV	10.02mV	14.83mV	Pass

The results above are not used in the certification process

230V

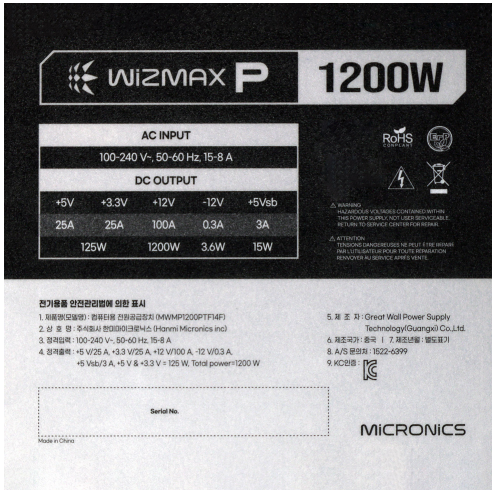
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	25.14mV	12.04mV	6.97mV	9.73mV	Pass
20% Load	28.90mV	11.58mV	6.76mV	10.95mV	Pass
30% Load	27.02mV	11.84mV	7.02mV	9.83mV	Pass
40% Load	25.64mV	24.18mV	11.95mV	10.35mV	Pass
50% Load	24.63mV	12.55mV	7.88mV	10.95mV	Pass
60% Load	25.14mV	12.96mV	8.39mV	12.28mV	Pass
70% Load	26.97mV	13.11mV	8.80mV	13.14mV	Pass
80% Load	27.88mV	13.72mV	12.16mV	12.53mV	Pass
90% Load	30.28mV	14.44mV	11.90mV	14.22mV	Pass
100% Load	34.04mV	15.51mV	14.50mV	14.98mV	Pass
110% Load	37.91mV	16.37mV	15.56mV	15.49mV	Pass
Crossload1	30.73mV	14.23mV	13.17mV	11.31mV	Pass
Crossload2	29.16mV	15.76mV	6.87mV	11.31mV	Pass
Crossload3	30.58mV	12.91mV	16.89mV	12.28mV	Pass
Crossload4	31.45mV	14.64mV	10.73mV	13.25mV	Pass

The results above are not used in the certification process

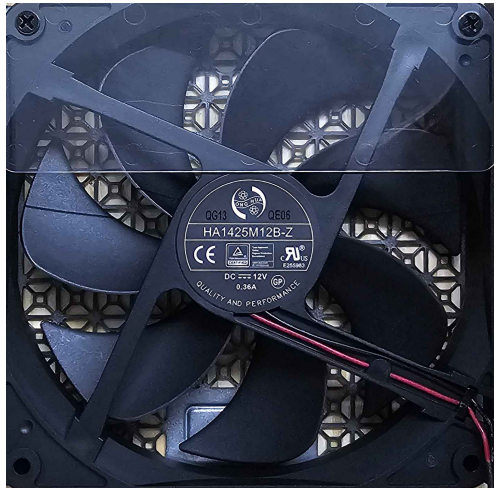
Micronics Wizmax P-1200W



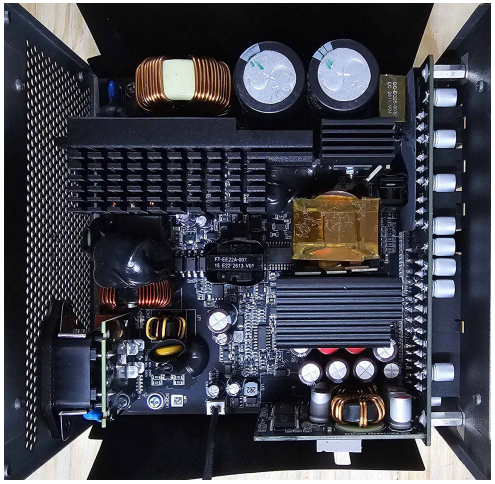
Top side



Power specifications label



Fan



PSU Internals

Cybenetics bietet freiwillige Zertifizierungsprogramme für Netzteile – ETA für Effizienz, LAMBDA für Lautstärke und SAFE für Sicherheit und korrekten Betrieb – sowie für Kühlprodukte mit DELTA für die Schalldämmung von Gehäusen und PHI für Luftstrom und statischen Druck von Lüftern

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