Thermaltake Dockpower FI 850W

Serial Number PSDCP0850FNFAGE2YFCY00002

Lab ID TT85003487

Certification ID 263487

Test Result Report ID: 26PS3487A

Certificate Issue Date: Nov 9, 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	Thermaltake
Model	Dockpower FI 850W
OEM/ODM	Shenzhen Xinweiye Technology
Serial Number	PSDCP0850FNFAGE2YFCY00002
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	10

Rated Frequency (Hz)	50-60
Rated Power (W)	850
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 86 x 160mm
Weight	1.60 kg (3.53 lb)
Cooling	135mm Rifle Bearing Fan (D14SH-12(L-S01))
Semi-Passive Operation	✓
Cybenetics Testing Information	
Lab ID	TT85003487
Date of receipt	Oct 30, 2026
Testing Date	Nov 6, 2026
Report Issued Date	Nov 9, 2026
Engineer Name	Ioannis Kalyviotis
Authorized By the Laboratory Technical Manager	Aristeidis Bitziopoulos
Signature	

Cables and Connectors(Non-accredited measurements)

Description	Cable Count	Connector Count (Total)	Gauge	Cable Type
ATX connector 24 pin (550mm)	1	1	18AWG	Tinned Copper
4+4 pin EPS12V (700mm)	2	2	18AWG	Tinned Copper
6+2 pin PCIe (600mm+150mm)	2	4	18AWG	Tinned Copper
12+4 pin PCIe (610mm) (600W)	1	1	16-24AWG	Tinned Copper
SATA (450mm+150mm+150mm)	2	6	18AWG	Tinned Copper
4-pin Molex (450mm+150mm+150mm+150mm)	1	4	18AWG	Tinned Copper
AC Power Cord (1400mm) - C13 coupler	1	1	3G 0.75mm²	

Protection Features(Manufacturer)

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	70.8	3	0.3
	Watts	100		849.6	15	3.6
Total Max. Power (W)		850				

Parts Description

General Data	
Manufacturer (OEM)	Shenzhen Xinweiye Technology
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	1x NTC Thermistor SCK-5D15 (5 Ohm @ 25°C) & Relay
Bridge Rectifier	2x GBU1510 (1000V, 15A @ 40°C)
APFC MOSFETs	2x NCE PowerSPTA65R130FDD (650V, 18.2A @ 100°C, Rds(on): 0.13Ohm)
APFC Boost Diode	Macrocore Semiconductor HX1D08065I (650V, 8A@ 150°C)
Bulk Cap(s)	1x LTEC (420V, 470uF 2000h @ 105°C, HP)
Main Switchers	2x NCE Power SPTA65R130FDD (650V, 18.2A @ 100°C, Rds(on): 0.13Ohm)
APFC Controller	Champion CM6500UNX
Resonant Controller	Champion CM6901X

Topology	Primary side: APFC, Half-Bridge & LLC Resonant Converter Secondary side: [12V] Synchronous Rectification & [Minor Rails] DC-DC converters
Secondary Side	
+12V MOSFETs	6x Maple Semi SLM160N04G (40V, 95A @ 100°C, Rds(on): 1.8mOhm)
5V & 3.3V	DC-DC Converters: 4x Rectron Semiconductor RMN3N5R0DF (30V, 19.7A @ 70°C, Rds(on): 5mOhm) PWM Controller(s): 2x ANPEC APW7164
Filtering Capacitors	Electrolytic: 7x JICON (2-5,000h @ 105°C, ZC) 2x JICON (5-8,000h @ 105°C, ZP) Polymer: 29x HEC
Supervisor IC	GRENERGY GR8313F
Fan Model	D14SH-12(L-S01) (135mm, 12V, 0.7A, Rifle Bearing Fan)
5VSB Circuit	
Rectifier	Pingwei PS1060L (60V, 10A)
Standby PWM Controller	Chipown PN8141

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)	89.752%
Average Noise Output (>1450 Load Combinations)	29.42dBA
Average PF (>1450 Load Combinations)	0.987
Efficiency With 10W (≤500W) or 2% (>500W) Load	69.203%
Standby Power Consumption	0.0550W
Non-Accredited	
12V Ripple (Full Load)	36.97mV
5V Ripple (Full Load)	23.91mV
3.3V Ripple (Full Load)	27.62mV
5VSB Ripple (Full Load)	19.51mV
12V Load Regulation	0.23%
5V Load Regulation	0.70%
3.3V Load Regulation	1.02%
5VSB Load Regulation	4.58%
Inrush Current	31.250A

230V

Accredited	
Average Efficiency (>1450 load combinations)	91.856%
Average Noise Output (>1450 Load Combinations)	28.55dBA
Average PF (>1450 Load Combinations)	0.939
Efficiency With 10W (≤500W) or 2% (>500W) Load	70.882%
Standby Power Consumption	0.0999W
Non-Accredited	
12V Ripple (Full Load)	38.41mV
5V Ripple (Full Load)	25.81mV
3.3V Ripple (Full Load)	29.58mV

5VSB Ripple (Full Load)		19.61mV
12V Load Regulation		0.20%
5V Load Regulation		0.74%
3.3V Load Regulation		0.99%
5VSB Load Regulation		4.58%
Inrush Current		74.830A
12V Transient Response (200%)		11.46V
5V Transient Response (200%)		4.902V
3.3V Transient Response (200%)		3.195V
5VSB Transient Response (200%)		4.926V
Hold-Up Time & PWR_OK Signal		17.90ms
AC Loss to PWR_OK Hold Up Time		11.90ms
PWR_OK Inactive to DC Loss Delay		6.00ms
PSU Timings: T1 (20% / 100%)	96.0ms	95.0ms
PSU Timings: T3 (20% / 100%)	116.0ms	116.0ms
12V OCP (29.6°C / 42.2°C)	85.900A (121.33%), 12.014V — shut down	85.500A (120.76%), 12.019V — shut down
5V OCP (29.6°C / 42.2°C)	28.700A (143.50%), 5.006V — shut down	28.500A (142.50%), 5.006V — shut down
3.3V OCP (29.6°C / 42.2°C)	31.500A (157.50%), 3.334V — shut down	30.500A (152.50%), 3.336V — shut down
5VSB OCP (29.6°C / 42.2°C)	5.100A (170.00%), 4.848V — shut down	5.000A (166.67%), 4.851V — shut down
OPP (29.00°C / 42.63°C)	120.30%	119.42%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	17.9
AC Loss to PWR_OK Hold Up Time (ms)	11.9
PWR_OK Inactive to DC Loss Delay (ms)	6

Stromverbrauch im Ruhezustand

Tables

115V

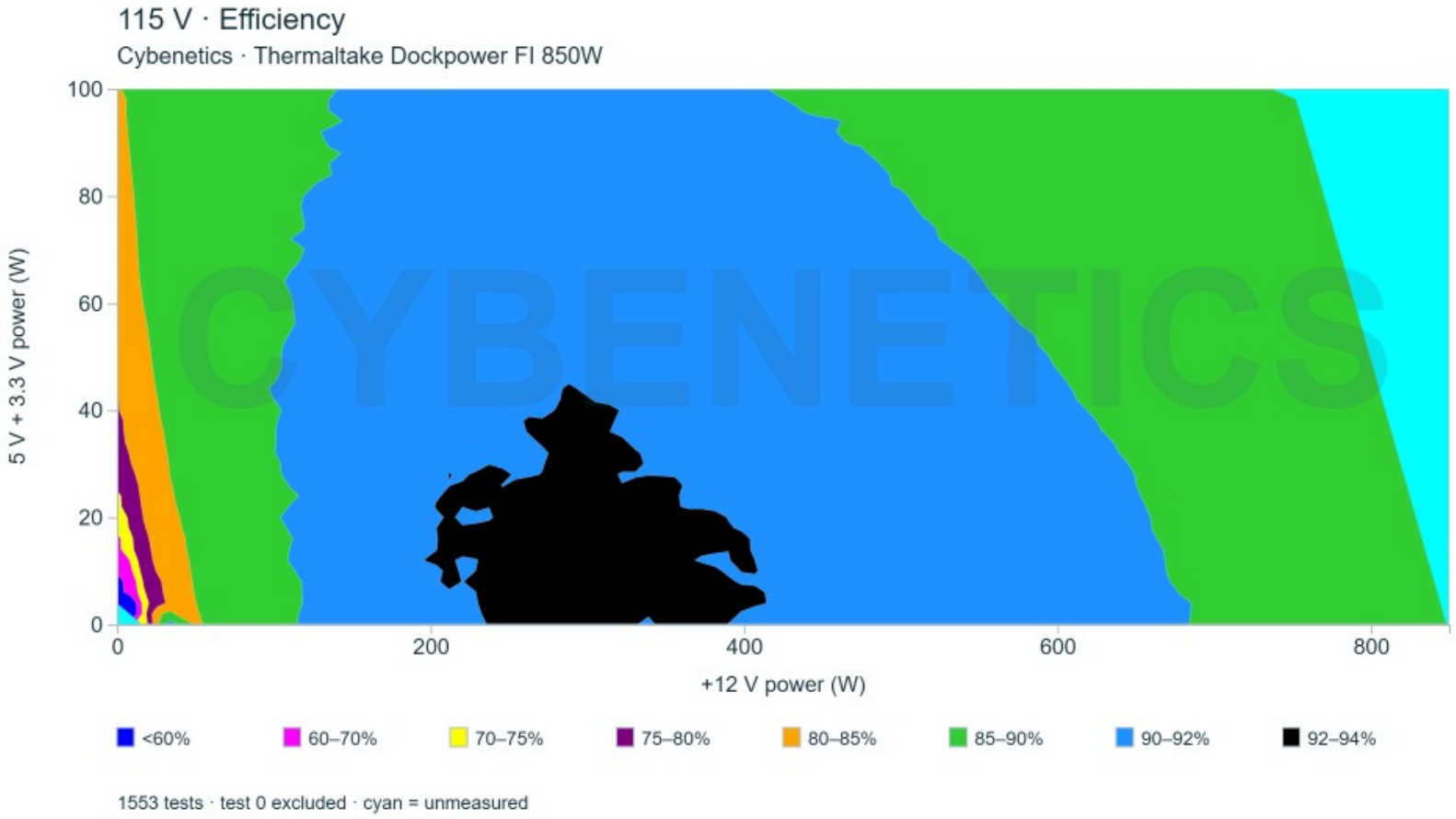
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.00 V	114.96 V	113.85 V	115.02 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.416	1.490	PASS
Mains Voltage THD:	0.13 %	0.10 %	N/A	0.16 %	2.00 %	PASS
Real Power:	0.055 W	0.002 W	N/A	0.081 W	N/A	N/A
Apparent Power:	10.351 W	10.247 W	N/A	10.394 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:	230.00 V	229.99 V	227.70 V	230.03 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:	0.15 %	0.13 %	N/A	0.16 %	2.00 %	PASS
Real Power:	0.100 W	0.071 W	N/A	0.144 W	N/A	N/A
Apparent Power:	34.115 W	34.092 W	N/A	34.137 W	N/A	N/A
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

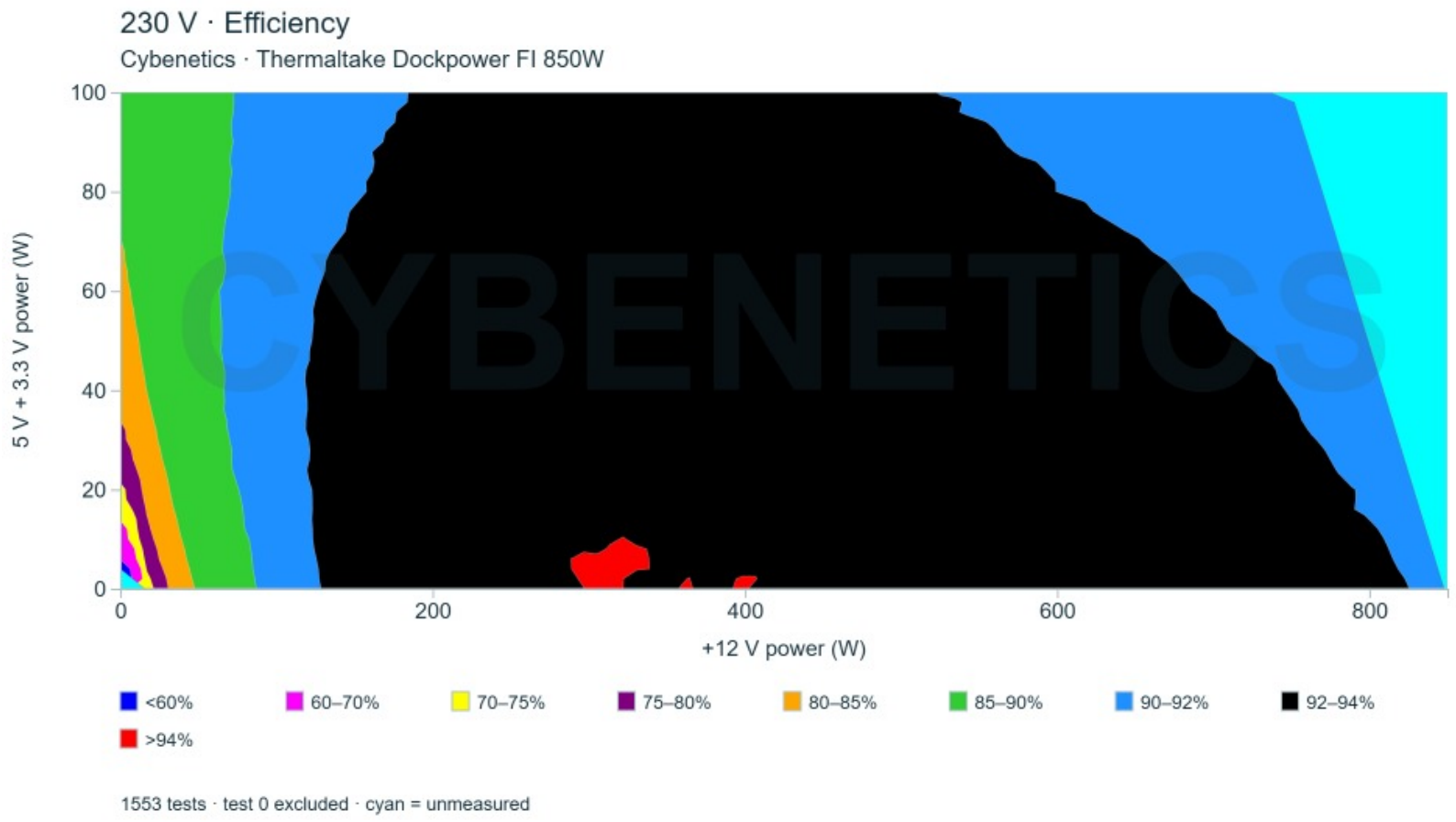
115V



INFO

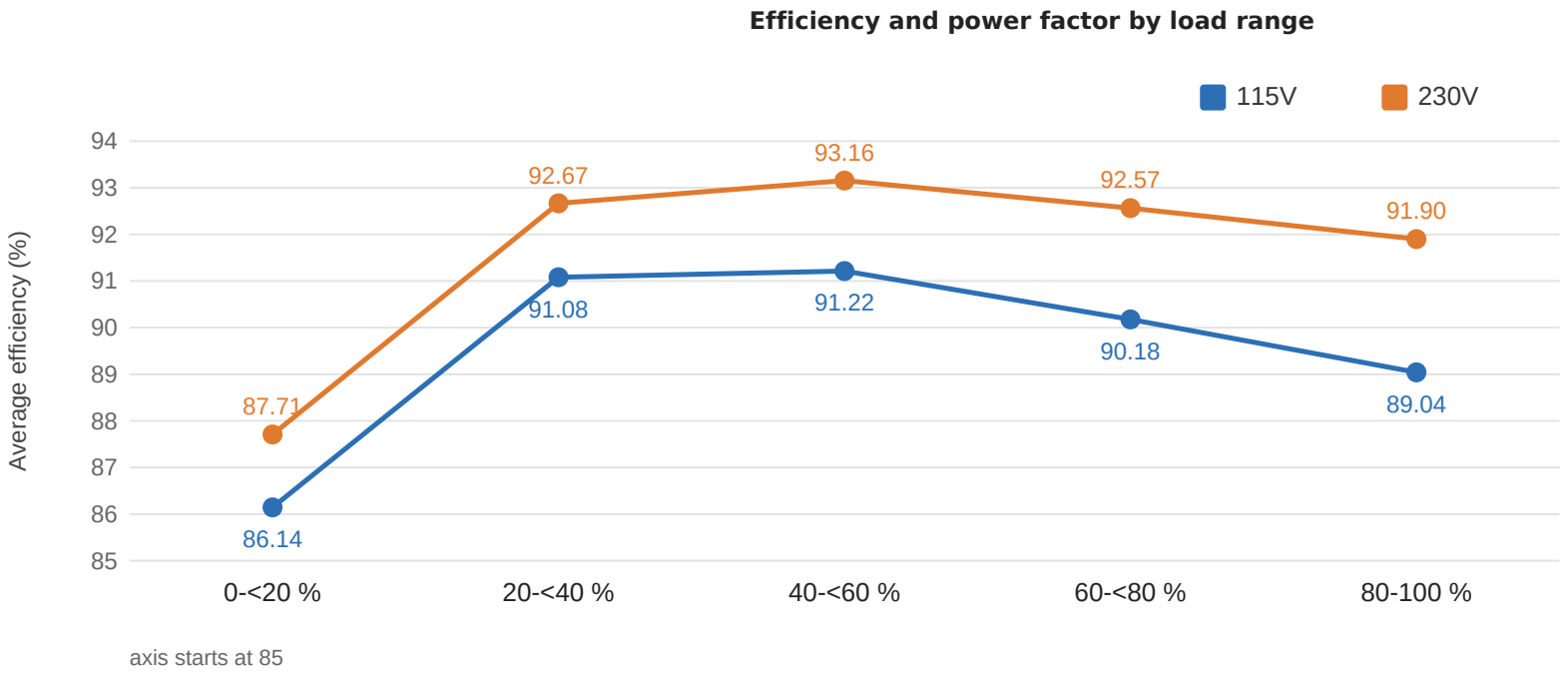
This graph depicts the PSU`s efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

230V

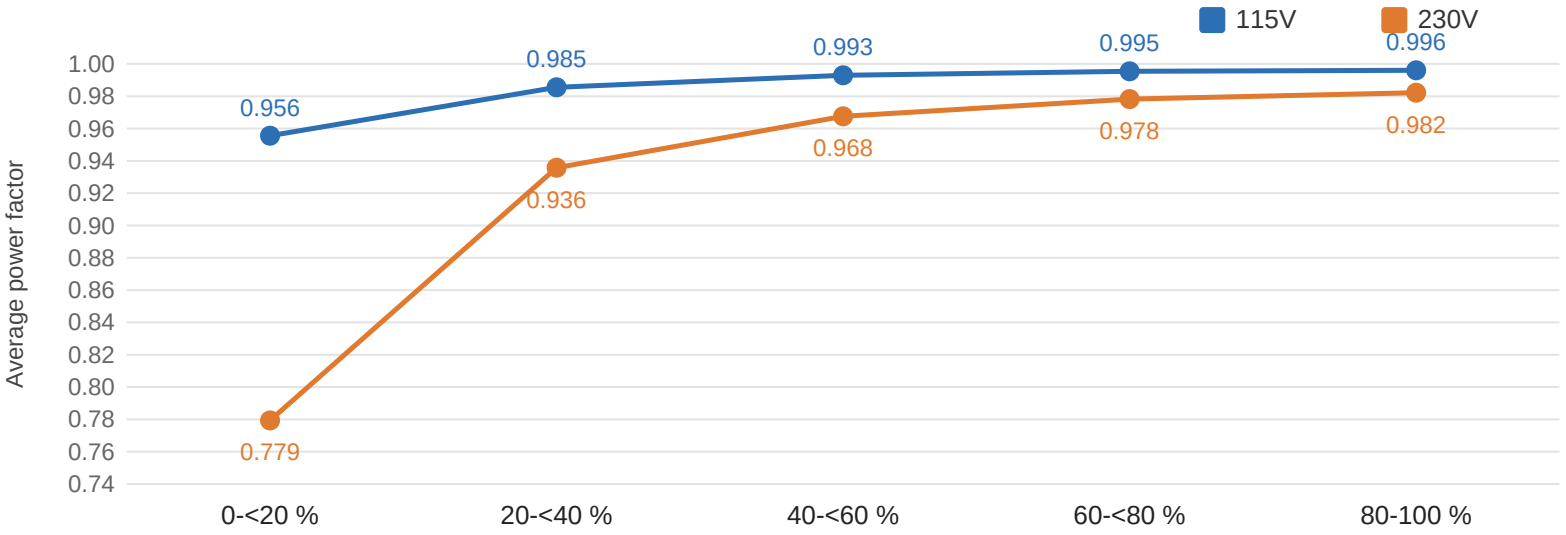


INFO

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 85



axis starts at 0.74

Load range	Points	Efficiency 115V	Efficiency 230V	PF 115V	PF 230V
0-<20 %	228 / 228	86.14%	87.71%	0.956	0.779
20-<40 %	331 / 331	91.08%	92.67%	0.985	0.936
40-<60 %	328 / 327	91.22%	93.16%	0.993	0.968
60-<80 %	332 / 333	90.18%	92.57%	0.995	0.978
80-100 %	334 / 334	89.04%	91.90%	0.996	0.982
70-100 % (High-Load)	499 / 498	89.33%	92.08%	0.996	0.981
All (published average)	1553 / 1553	89.75%	91.86%	0.987	0.939

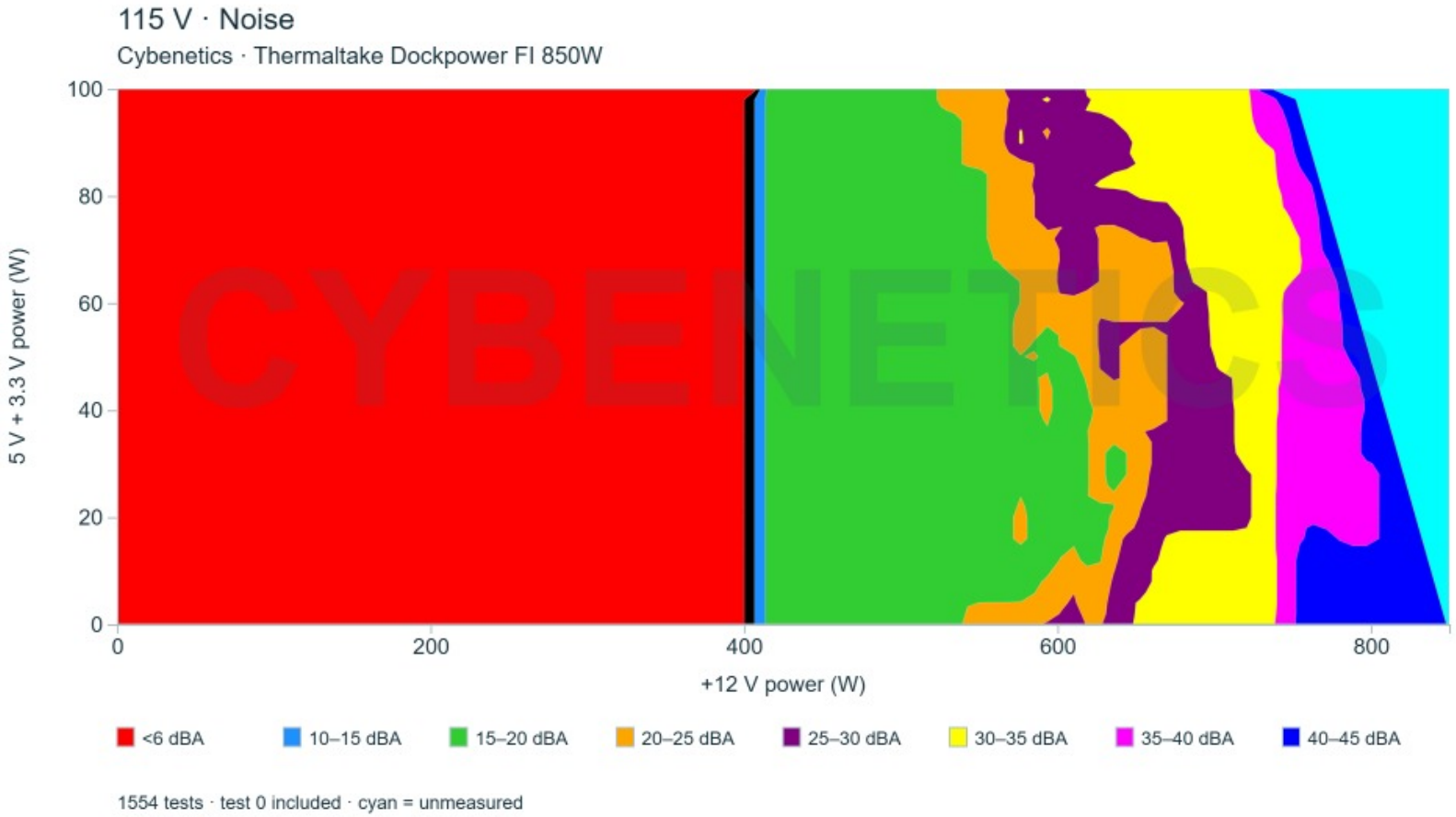
INFO

The average efficiency and power factor in five ranges of load. Calculated from the 1553 (115V) and 1553 (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 850 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

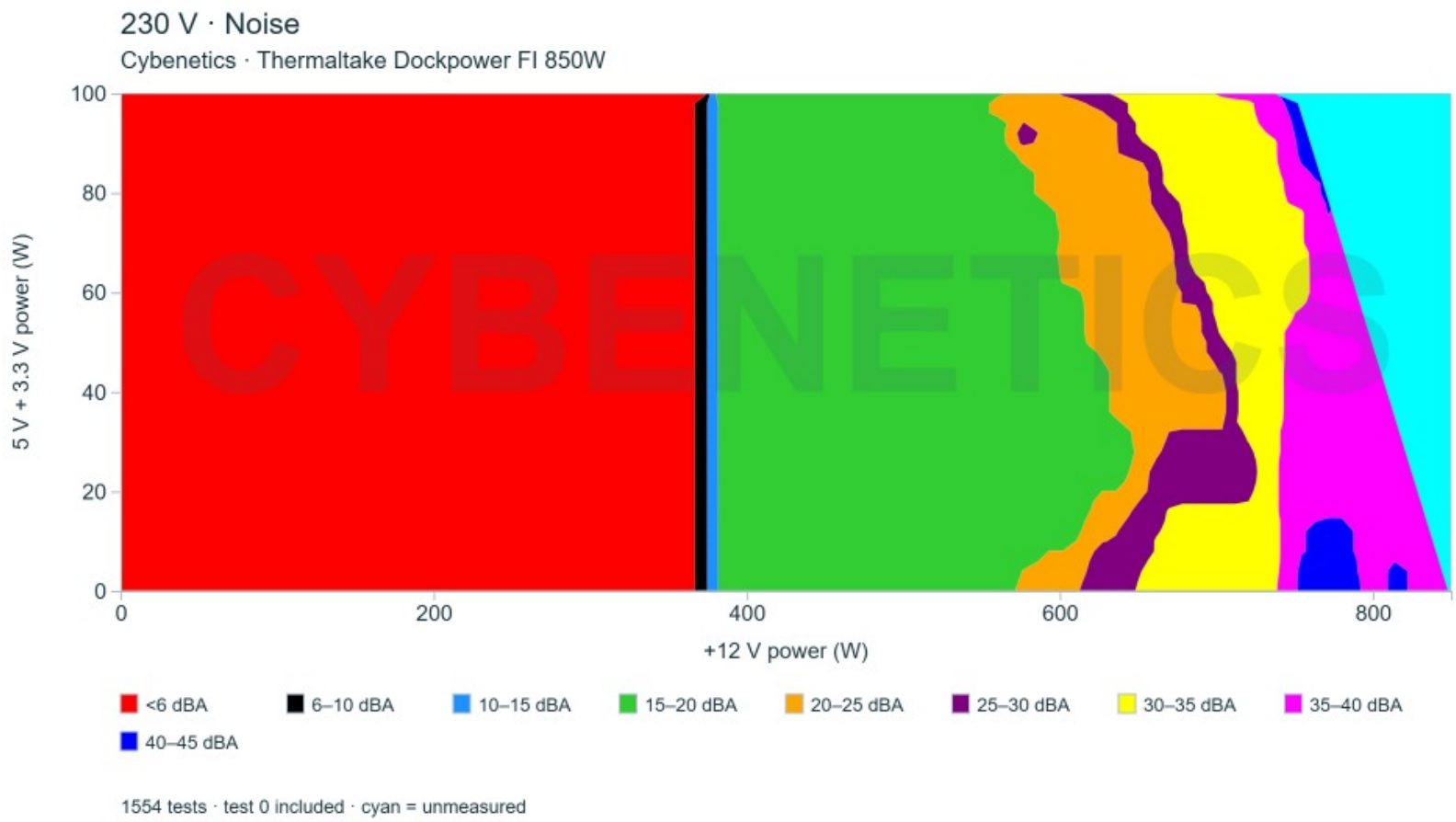
115V



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

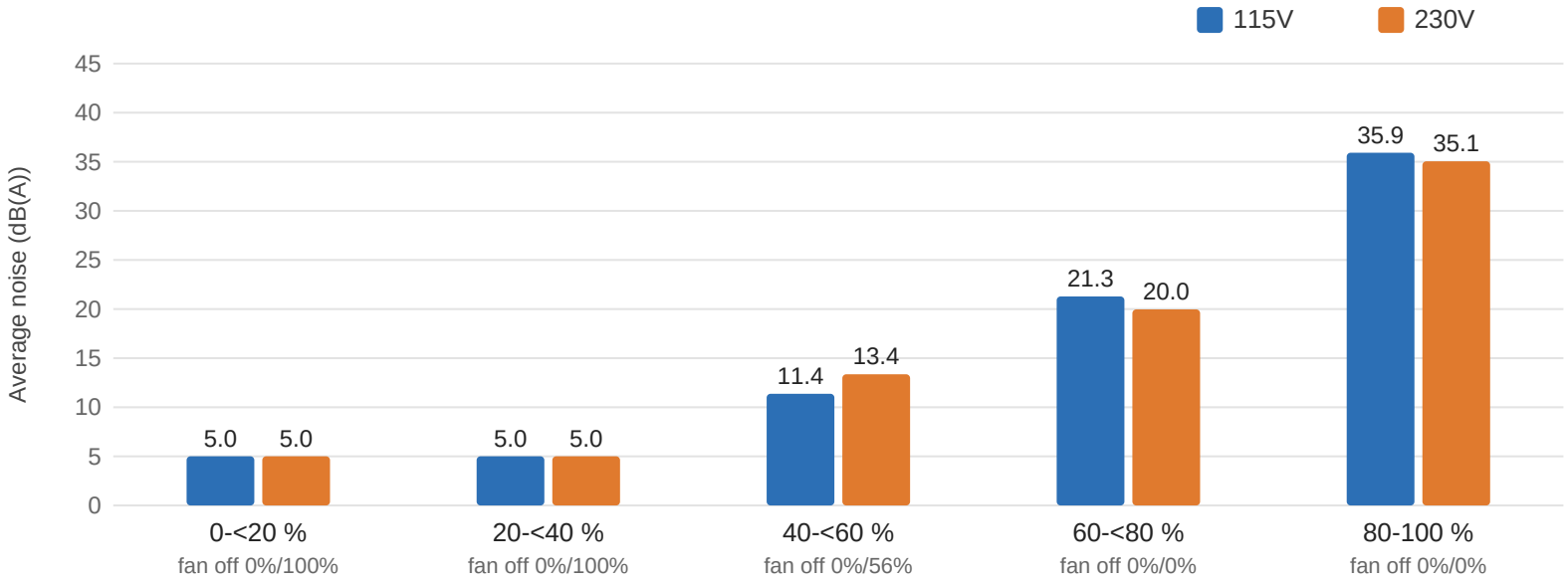
The PSU`s noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

Noise by load range

High-Load Index (70-100 % load)

Noise **34.3 dB(A)** at 115V and **33.4 dB(A)** at 230V · loudest point 41.3 dB(A)

Efficiency 89.33% / 92.08% · power factor 0.996 / 0.981 (115V / 230V)



Load range	Noise 115V avg (loudest)	Noise 230V avg (loudest)	Fan off 115V / 230V
0-<20 %	5.0 (5.0)	5.0 (5.0)	0% / 100%
20-<40 %	5.0 (5.0)	5.0 (5.0)	0% / 100%
40-<60 %	11.4 (16.6)	13.4 (16.6)	0% / 56%
60-<80 %	21.3 (33.8)	20.0 (33.8)	0% / 0%
80-100 %	35.9 (41.3)	35.1 (41.3)	0% / 0%
70-100 % (High-Load)	34.3 (41.3)	33.4 (41.3)	0% / 0%
All (published average)	29.4 (41.3)	28.5 (41.3)	0% / 48%

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 1553 (115V) and 1553 (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 850 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".

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) · 35.4 °C	0 RPM · <6.0 dB(A) · 44.3 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 36.6 °C	0 RPM · <6.0 dB(A) · 45.6 °C	fan off in both
50%	0 RPM · <6.0 dB(A) · 38.2 °C	0 RPM · <6.0 dB(A) · 64.0 °C	fan off in both
100%	1747 RPM · 43.9 dB(A) · 30.5 °C	1888 RPM · 45.7 dB(A) · 45.5 °C	**+1.8 dB(A)**

230V

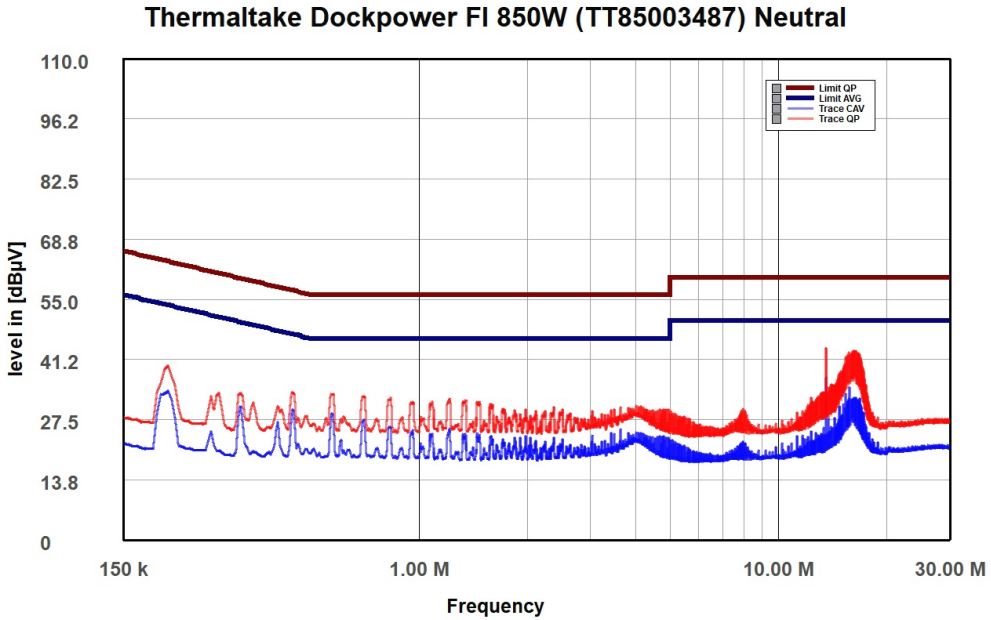
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	321 RPM · <6.0 dB(A) · 30.5 °C	281 RPM · <6.0 dB(A) · 40.3 °C	fan off in both
20%	322 RPM · <6.0 dB(A) · 30.7 °C	281 RPM · <6.0 dB(A) · 40.5 °C	fan off in both
50%	325 RPM · <6.0 dB(A) · 30.5 °C	614 RPM · 17.1 dB(A) · 42.5 °C	fan starts (<6.0 → 17.1)
100%	1584 RPM · 41.0 dB(A) · 30.8 °C	1897 RPM · 46.2 dB(A) · 45.3 °C	**+5.2 dB(A)**

INFO

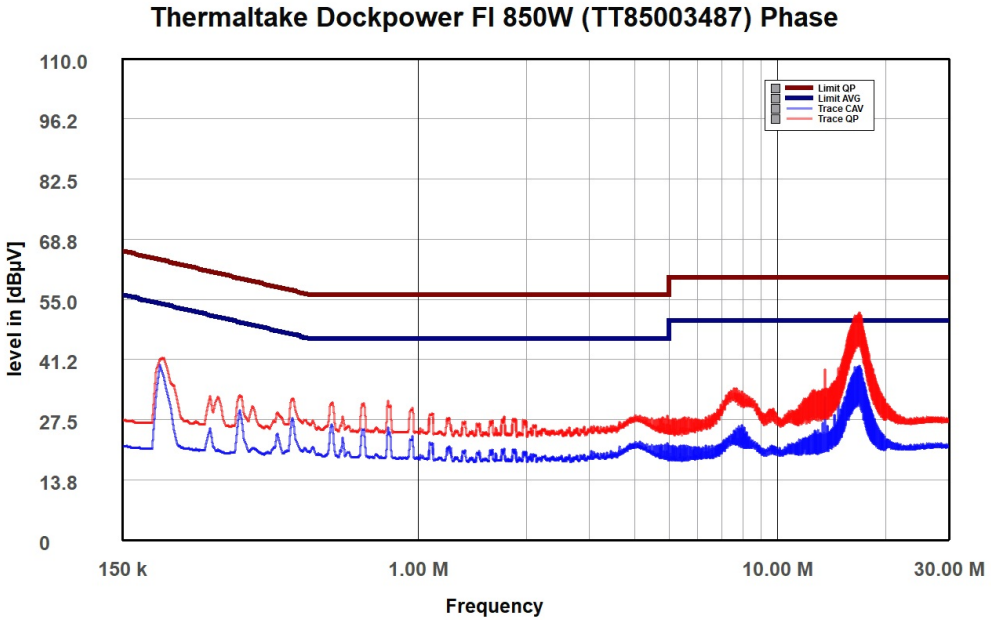
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative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



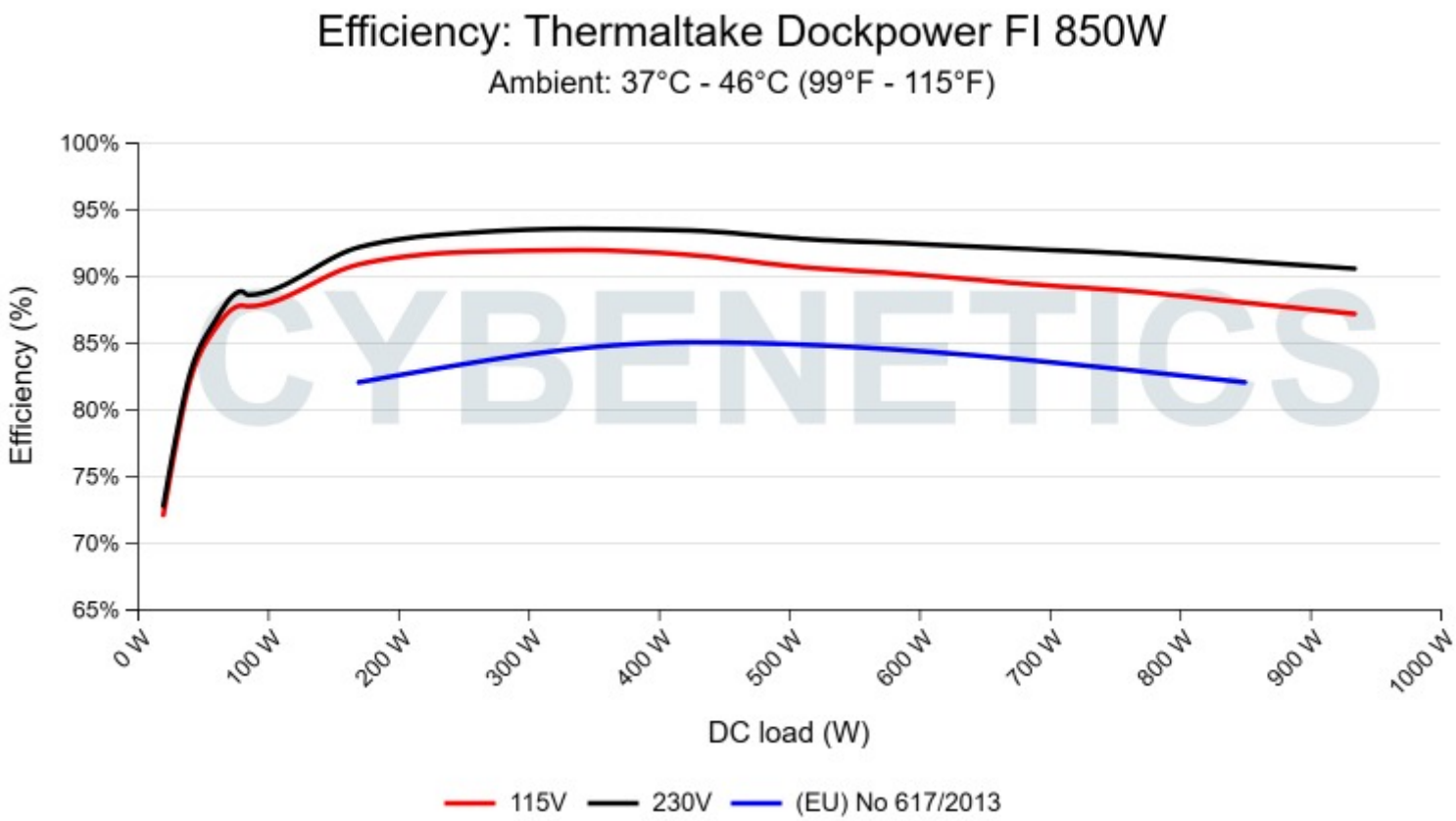
NEUTRAL



PHASE

Indicative Performance

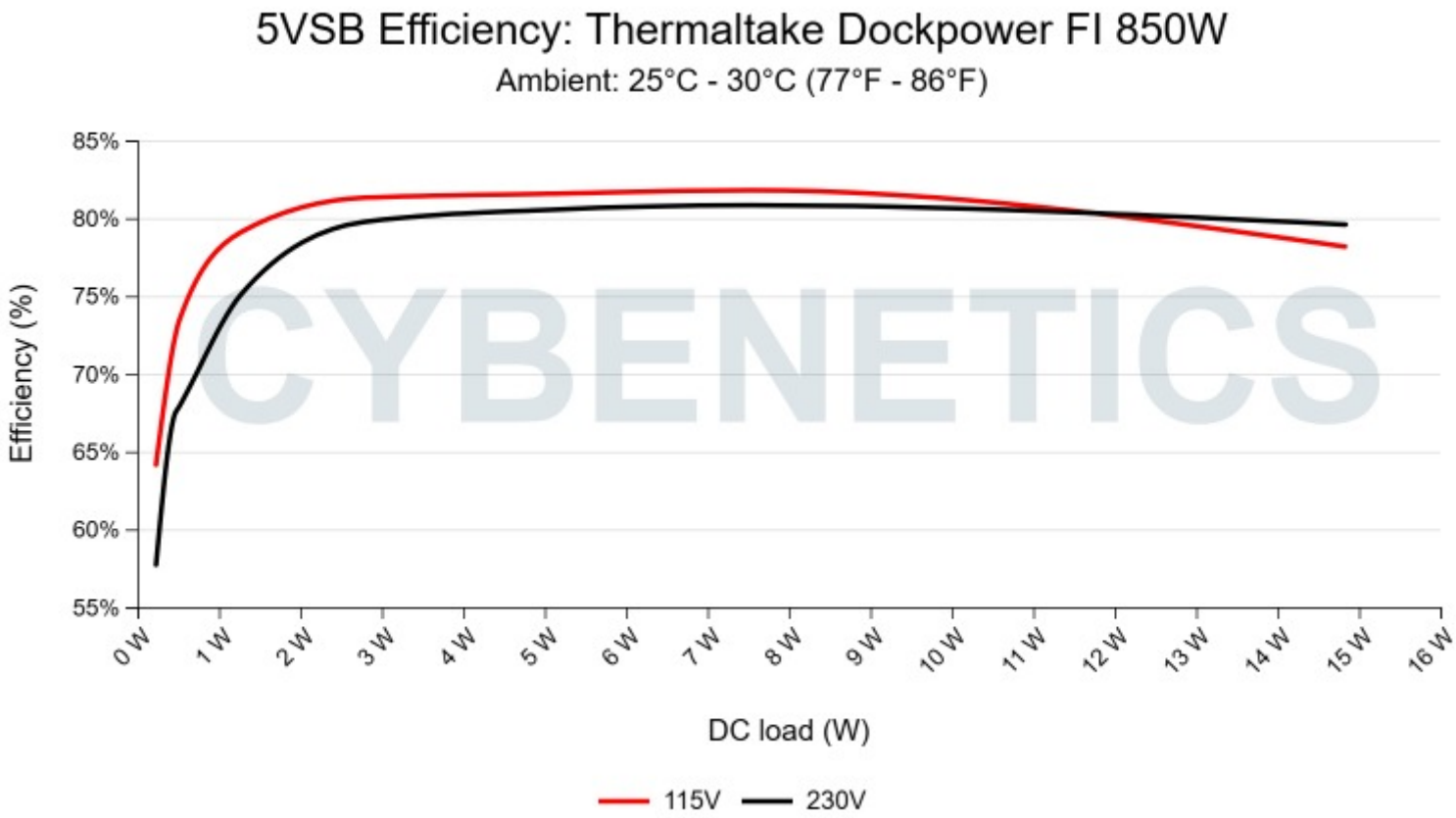
Efficiency under high ambient temperature



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**	0.229W	64.148%	0.034
	5.1V	0.358W		115.12V
2	**0.09A**	0.459W	72.257%	0.061
	5.098V	0.635W		115.13V
3	**0.55A**	2.79W	81.315%	0.26
	5.074V	3.431W		115.13V
4	**1A**	5.049W	81.565%	0.36
	5.051V	6.191W		115.13V
5	**1.5A**	7.536W	81.785%	0.412
	5.025V	9.214W		115.13V
6	**2.999A**	14.832W	78.167%	0.481
	4.945V	18.975W		115.13V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.23W	57.722%	0.012
	5.101V	0.398W		230.28V
2	**0.09A**	0.459W	67.381%	0.02
	5.098V	0.681W		230.3V
3	**0.55A**	2.79W	79.755%	0.099
	5.074V	3.498W		230.33V
4	**1A**	5.051W	80.531%	0.165
	5.051V	6.271W		230.33V
5	**1.5A**	7.537W	80.822%	0.223
	5.025V	9.326W		230.34V
6	**3A**	14.838W	79.587%	0.328
	4.947V	18.644W		230.34V

Protection Features

OCP (Normal @ 29.6°C)	12V: 85.900A (121.33%), 12.014V — shut down 5V: 28.700A (143.50%), 5.006V — shut down 3.3V: 31.500A (157.50%), 3.334V — shut down 5VSB: 5.100A (170.00%), 4.848V — shut down
OCP (Hot @ 42.2°C)	12V: 85.500A (120.76%), 12.019V — shut down 5V: 28.500A (142.50%), 5.006V — shut down 3.3V: 30.500A (152.50%), 3.336V — shut down 5VSB: 5.000A (166.67%), 4.851V — shut down
OVP (per rail)	12V: 14.747V (✓) 5V: 5.326V (✓) 3.3V: 3.832V (✓)
OPP (Normal @ 29.0°C)	1022.58W (120.30%) — shut down
OPP (Hot @ 42.6°C)	1015.06W (119.42%) — shut down
OTP	✓ (111°C @ 12V Heatsink)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓ -12V to Earth: ✓ Rail to rail: not tested
PWR_OK	Proper Operation
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%	**5.273A**	**1.975A**	**1.968A**	**0.99A**	85.002	87.695%	0	<6.0	44.27°C	0.964
	12.025V	5.063V	3.354V	5.049V	96.93				40.43°C	115.07V
20%	**11.562A**	**2.965A**	**2.954A**	**1.193A**	169.924	90.839%	0	<6.0	45.6°C	0.978
	12.025V	5.06V	3.351V	5.03V	187.061				40.69°C	115.05V
30%	**18.204A**	**3.46A**	**3.448A**	**1.397A**	254.919	91.781%	0	<6.0	51.94°C	0.986
	12.024V	5.058V	3.35V	5.011V	277.749				41.14°C	115.03V
40%	**24.853A**	**3.955A**	**3.941A**	**1.602A**	339.999	91.906%	0	<6.0	55.1°C	0.991
	12.022V	5.057V	3.349V	4.992V	369.943				41.67°C	115V
50%	**31.130A**	**4.947A**	**4.929A**	**1.81A**	424.746	91.537%	0	<6.0	64.04°C	0.993
	12.022V	5.054V	3.348V	4.972V	464.016				42.21°C	114.98V
60%	**37.406A**	**5.945A**	**5.927A**	**2A**	509.191	90.645%	705	20.1	42.6°C	0.995
	12.016V	5.047V	3.341V	4.954V	561.742				64.17°C	114.97V
70%	**43.742A**	**6.944A**	**6.926A**	**2.229A**	594.59	90.1%	786	22.3	43.11°C	0.996
	12.013V	5.041V	3.335V	4.935V	659.924				63.4°C	115.04V
80%	**50.084A**	**7.941A**	**7.927A**	**2.337A**	679.409	89.388%	1247	35.1	43.67°C	0.996
	12.010V	5.036V	3.33V	4.919V	760.065				62.68°C	115.01V
90%	**56.833A**	**8.445A**	**8.421A**	**2.445A**	764.785	88.823%	1593	41.3	44.53°C	0.996
	12.006V	5.032V	3.325V	4.906V	861.02				59.93°C	114.98V
100%	**63.343A**	**8.947A**	**8.942A**	**3.08A**	849.628	87.982%	1888	45.7	45.5°C	0.997
	11.997V	5.029V	3.321V	4.869V	965.686				59.74°C	114.95V
110%	**69.689A**	**9.953A**	**10.039A**	**3.087A**	934.218	87.131%	2012	47.3	46.34°C	0.997
	11.996V	5.023V	3.316V	4.858V	1072.198				60.94°C	115.02V
CL1	**0.115A**	**11.969A**	**11.921A**	**0A**	101.272	84.352%	562	16.2	40.65°C	0.978
	12.029V	5.029V	3.33V	5.076V	120.06				51.22°C	115.09V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL2	**0.114A**	**19.973A**	**0A**	**0A**	101.351	82.887%	559	16.2	40.78°C	0.977
	12.029V	5.005V	3.369V	5.082V	122.276				46.11°C	115.09V
CL3	**0.114A**	**0A**	**19.949A**	**0A**	67.37	78.357%	320	<6.0	40.01°C	0.956
	12.026V	5.071V	3.308V	5.08V	85.978				44.23°C	115.1V
CL4	**70.796A**	**0A**	**0A**	**0.001A**	849.506	88.816%	1589	41.3	45.57°C	0.996
	12.000V	5.056V	3.344V	5.018V	956.473				53.84°C	115.05V

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%	**5.272A**	**1.976A**	**1.967A**	**0.99A**	85.005	88.551%	281	<6.0	40.34°C	0.759
	12.027V	5.062V	3.355V	5.049V	95.996				42.3°C	230.29V
20%	**11.564A**	**2.966A**	**2.955A**	**1.193A**	169.948	92.118%	281	<6.0	40.52°C	0.897
	12.024V	5.058V	3.351V	5.03V	184.489				42.51°C	230.27V
30%	**18.210A**	**3.462A**	**3.45A**	**1.397A**	254.959	93.214%	320	<6.0	41.87°C	0.939
	12.021V	5.056V	3.348V	5.011V	273.52				44.48°C	230.25V
40%	**24.860A**	**3.958A**	**3.944A**	**1.602A**	340.036	93.505%	273	<6.0	41.84°C	0.957
	12.021V	5.054V	3.347V	4.993V	363.654				48.41°C	230.24V
50%	**31.140A**	**4.95A**	**4.934A**	**1.81A**	424.772	93.39%	614	17.1	42.45°C	0.967
	12.019V	5.051V	3.344V	4.973V	454.836				50.84°C	230.25V
60%	**37.398A**	**5.945A**	**5.928A**	**2A**	509.176	92.762%	613	17.1	42.68°C	0.976
	12.018V	5.046V	3.34V	4.955V	548.904				48.9°C	230.27V
70%	**43.731A**	**6.942A**	**6.923A**	**2.229A**	594.58	92.396%	851	25.0	43.13°C	0.978
	12.016V	5.042V	3.337V	4.934V	643.511				49.82°C	230.27V
80%	**50.083A**	**7.942A**	**7.926A**	**2.337A**	679.397	92.013%	1139	32.9	43.56°C	0.98
	12.010V	5.035V	3.33V	4.92V	738.371				48.42°C	230.26V
90%	**56.831A**	**8.445A**	**8.417A**	**2.445A**	764.818	91.625%	1482	39.1	44.08°C	0.982
	12.006V	5.031V	3.326V	4.907V	834.726				46.65°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%	**63.317A**	**8.947A**	**8.938A**	**3.08A**	849.642	91.073%	1897	46.2	45.3°C	0.984
	12.003V	5.028V	3.323V	4.869V	932.924				47.29°C	230.24V
110%	**69.667A**	**9.951A**	**10.033A**	**3.088A**	934.223	90.524%	2021	47.1	46.26°C	0.986
	12.000V	5.024V	3.318V	4.858V	1032.013				47.89°C	230.21V
CL1	**0.115A**	**11.966A**	**11.911A**	**0A**	101.273	85.647%	609	17.1	40.66°C	0.813
	12.029V	5.03V	3.333V	5.076V	118.245				45.37°C	230.35V
CL2	**0.114A**	**19.969A**	**0A**	**0A**	101.352	84.071%	569	16.9	40.6°C	0.817
	12.031V	5.006V	3.37V	5.082V	120.555				44.16°C	230.36V
CL3	**0.114A**	**0A**	**19.928A**	**0A**	67.369	79.401%	561	16.2	40.52°C	0.722
	12.027V	5.07V	3.312V	5.079V	84.847				43.43°C	230.37V
CL4	**70.766A**	**0A**	**0A**	**0.001A**	849.447	91.842%	1725	43.7	45.75°C	0.984
	12.004V	5.058V	3.347V	5.017V	924.903				46.88°C	230.24V

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	**1.236A**	**0.494A**	**0.492A**	**0.196A**	20	72.058%	0	<6.0	38.41°C	0.732
	12.020V	5.064V	3.353V	5.092V	27.756				36.85°C	115.09V
40W	**2.719A**	**0.691A**	**0.689A**	**0.295A**	40.001	81.958%	0	<6.0	37.03°C	0.882
	12.021V	5.063V	3.354V	5.085V	48.807				37.53°C	115.08V
60W	**4.204A**	**0.889A**	**0.885A**	**0.394A**	60.003	86.06%	0	<6.0	39.63°C	0.941
	12.020V	5.064V	3.354V	5.079V	69.722				38.62°C	115.07V
80W	**5.682A**	**1.086A**	**1.082A**	**0.493A**	79.951	87.762%	0	<6.0	42.76°C	0.959
	12.023V	5.064V	3.355V	5.072V	91.1				38.04°C	115.06V

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	**1.234A**	**0.494A**	**0.492A**	**0.196A**	19.992	72.741%	322	<6.0	36.58°C	0.411
	12.026V	5.065V	3.356V	5.092V	27.484				37.7°C	230.37V
40W	**2.717A**	**0.691A**	**0.688A**	**0.295A**	39.991	82.491%	321	<6.0	37.3°C	0.541
	12.027V	5.065V	3.356V	5.086V	48.479				39.23°C	230.38V
60W	**4.201A**	**0.888A**	**0.885A**	**0.394A**	59.99	86.655%	322	<6.0	38.75°C	0.652
	12.027V	5.064V	3.355V	5.079V	69.229				39.97°C	230.37V
80W	**5.679A**	**1.086A**	**1.081A**	**0.493A**	79.939	88.83%	304	<6.0	39.4°C	0.74
	12.026V	5.064V	3.356V	5.072V	89.991				40.95°C	230.32V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	24.85mV	17.36mV	19.19mV	12.08mV	Pass
20% Load	26.29mV	17.67mV	18.56mV	12.18mV	Pass
30% Load	27.01mV	17.72mV	18.87mV	13.11mV	Pass
40% Load	29.23mV	18.19mV	20.17mV	13.89mV	Pass
50% Load	30.88mV	19.57mV	21.15mV	14.66mV	Pass
60% Load	34.39mV	20.40mV	22.03mV	15.59mV	Pass
70% Load	33.92mV	21.12mV	24.10mV	15.95mV	Pass
80% Load	33.72mV	22.62mV	25.28mV	17.60mV	Pass
90% Load	35.58mV	24.88mV	26.43mV	18.38mV	Pass
100% Load	36.97mV	23.91mV	27.62mV	19.51mV	Pass
110% Load	37.53mV	25.50mV	28.80mV	20.39mV	Pass
Crossload1	27.38mV	20.45mV	22.91mV	14.82mV	Pass
Crossload2	28.05mV	21.53mV	27.98mV	15.33mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	25.37mV	21.07mV	20.22mV	14.15mV	Pass
Crossload4	36.66mV	23.29mV	24.25mV	20.49mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	23.82mV	18.24mV	19.39mV	12.49mV	Pass
20% Load	26.29mV	19.89mV	19.24mV	13.11mV	Pass
30% Load	27.89mV	20.66mV	20.11mV	13.32mV	Pass
40% Load	30.01mV	20.09mV	20.48mV	14.51mV	Pass
50% Load	32.07mV	20.40mV	22.03mV	15.33mV	Pass
60% Load	34.23mV	21.79mV	24.92mV	16.21mV	Pass
70% Load	33.30mV	22.46mV	25.24mV	16.78mV	Pass
80% Load	34.44mV	23.34mV	33.20mV	17.65mV	Pass
90% Load	35.42mV	23.44mV	28.49mV	18.63mV	Pass
100% Load	38.41mV	25.81mV	29.58mV	19.61mV	Pass
110% Load	38.31mV	25.24mV	31.23mV	20.75mV	Pass
Crossload1	26.96mV	21.89mV	26.11mV	15.33mV	Pass
Crossload2	27.38mV	22.46mV	28.08mV	15.85mV	Pass
Crossload3	24.80mV	22.46mV	22.96mV	15.12mV	Pass
Crossload4	37.64mV	22.98mV	24.51mV	20.91mV	Pass

The results above are not used in the certification process

Thermaltake Dockpower FI 850W



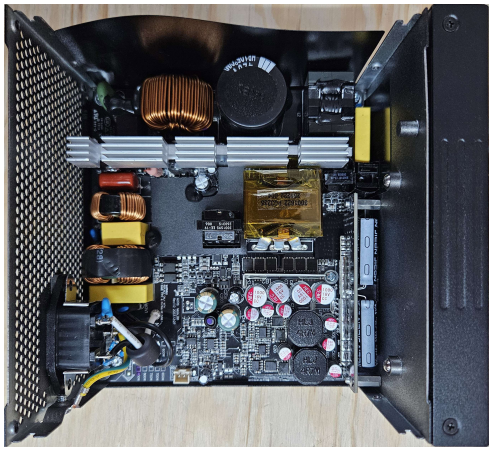
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Power specifications label



Fan



PSU Internals

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