Corsair RM850x Shift (ATX v3.1)

Serial Number A9H1D518401FMC

Lab ID CR85002879

Certification ID 252879

Test Result Report ID: 25PS2879A

Certificate Issue Date: Jul 10, 2025

Scheme: ETA-EMI PSU

115V



230V

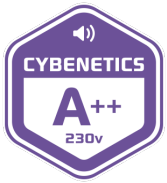


Scheme: LAMBDA PSU

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	Corsair
Model	RM850x Shift (ATX v3.1)
OEM/ODM	Great Wall
Serial Number	A9H1D518401FMC
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240

Rated Current (Arms)	5-10
Rated Frequency (Hz)	47-63
Rated Power (W)	850
Operating Temperature (Continuous Full Load) (°C)	
Type	ATX12V
Cable Design	Fully Modular
Warranty	-
Cybenetics Measurements	
Dimensions (W x H x D)	
Weight	
Cooling	140mm Fluid Dynamic Bearing Fan (NR140HP)
Semi-Passive Operation	✓ (selectable)
Cybenetics Testing Information	
Lab ID	CR85002879
Date of receipt	Jun 13, 2025
Testing Date	Jul 7, 2025
Report Issued Date	Jul 10, 2025
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 24 pin (610mm)	1	1	16-20AWG	No
4+4 pin ATX12V (650mm)	2	2	18AWG	No
6+2 pin PCIe (650mm)	2	2	18AWG	No
2x 6+2 pin PCIe (650mm)	2	2	18AWG	No
12+2 pin PCIe (650mm) (600W)	1	1	16-24AWG	No

SATA (500mm+100mm+100mm)	3	9	18AWG	No
4-pin Molex (450mm+100mm+100mm+100mm)	1	4	18AWG	No

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	70.8	3	0
	Watts	120		850	15	0
Total Max. Power (W)		850				

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 SCK205R0 (5 Ohm @ 25°C) & Relay
Bridge Rectifier(s)	2x GBU1510 (1000V, 15A @ 40°C)
APFC MOSFETs	2x STMicroelectronics STW33N60DM2 (650V, 15.5A @ 100°C, Rds(on): 130mOhm)
APFC Boost Diode	1x ROHM SCS308AH (650V, 8A @ 135°C)
Bulk Cap(s)	1x Nichicon (420V, 390uF, 3000h @ 105°C, GN(M)) 1x Nichicon (420V, 330uF, 3000h @ 105°C, GG(M))
Main Switchers	2x STMicroelectronics STW33N60DM2 (650V, 15.5A @ 100°C, Rds(on): 130mOhm)

PFC/LLC Combo Controller	MPS HR1280
Topology	Primary side: Semi-Digital, APFC, Half-Bridge & LLC Resonant Converter Secondary side: [12V] Synchronous Rectification & [Minor Rails] DC-DC converters
Secondary Side	
+12V MOSFETs	4x Toshiba TPH1R204PL (40V, 150A @ 25°C, Rds(on): 1.24mOhm)
5V & 3.3V	DC-DC Converters: 4x DMT3004LPS (30V, 17A @ 70°C, Rds(on): 3.8mOhm) PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic: 10x Nichicon (10,000h @ 105°C, HW(M)) 1x Nichicon (6,000 @ 105°C, HV(M)) 1x Rubycon (4-10,000 @ 105°C, YXF) 1x Rubycon (6-10,000 @ 105°C, ZLH) Polymer: 29x FPCAP
Supervisor IC	IN1S3151-SAG
SR Controller	MPS MP6924B
MCU	STMicroelectronics STM32C011F6P3
Fan Model	Corsair NR140HP (140mm, 12V, 0.33A, Fluid Dynamic Bearing Fan)
5VSB Circuit	
Rectifier (Low Side)	1x Diodes Incorporated DMT10H009LPS (100V, 8A @ 70°C, Rds(on): 8mOhm)
Standby PWM Controller	Power Integrations TNY288GG

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)	90.009%
Average Noise Output (>1450 Load Combinations)	10.65dBA
Average PF (>1450 Load Combinations)	0.992
Efficiency With 10W (≤500W) or 2% (>500W) Load	72.660%
Standby Power Consumption	0.0405W
Non-Accredited	
12V Ripple (Full Load)	20.97mV
5V Ripple (Full Load)	10.99mV
3.3V Ripple (Full Load)	10.17mV
5VSB Ripple (Full Load)	17.38mV
12V Load Regulation	0.57%
5V Load Regulation	0.38%
3.3V Load Regulation	0.42%
5VSB Load Regulation	1.49%
Inrush Current	33.800A

230V

Accredited	
Average Efficiency (>1450 load combinations)	91.794%
Average Noise Output (>1450 Load Combinations)	10.97dBA
Average PF (>1450 Load Combinations)	0.966
Efficiency With 10W (≤500W) or 2% (>500W) Load	75.766%
Standby Power Consumption	0.0818W
Non-Accredited	
12V Ripple (Full Load)	22.45mV
5V Ripple (Full Load)	11.10mV
3.3V Ripple (Full Load)	10.39mV

5VSB Ripple (Full Load)		16.88mV
12V Load Regulation		0.57%
5V Load Regulation		0.36%
3.3V Load Regulation		0.39%
5VSB Load Regulation		1.47%
Inrush Current		66.520A
12V Transient Response (200%)		11.47V
5V Transient Response (200%)		4.908V
3.3V Transient Response (200%)		3.214V
5VSB Transient Response (200%)		4.914V
Hold-Up Time & PWR_OK Signal		24.50ms
AC Loss to PWR_OK Hold Up Time		19.70ms
PWR_OK Inactive to DC Loss Delay		4.80ms
PSU Timings: T1 (20% / 100%)	80.0ms	70.0ms
PSU Timings: T3 (20% / 100%)	124.0ms	124.0ms
12V OCP (28.2°C / 42.2°C)	91.80A (129.66%), 12.010V	89.60A (126.55%), 12.006V
5V OCP (28.2°C / 42.2°C)	30.2A (151.00%), 4.98V	30A (150.00%), 4.981V
3.3V OCP (28.2°C / 42.2°C)	29A (145.00%), 3.299V	29A (145.00%), 3.302V
5VSB OCP (28.2°C / 42.2°C)	5.2A (173.33%), 4.985V	5.2A (173.33%), 4.984V
OPP (30.04°C / 43.28°C)	126.24%	123.88%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	24.5
AC Loss to PWR_OK Hold Up Time (ms)	19.7
PWR_OK Inactive to DC Loss Delay (ms)	4.8

Stromverbrauch im Ruhezustand

Tables

115V

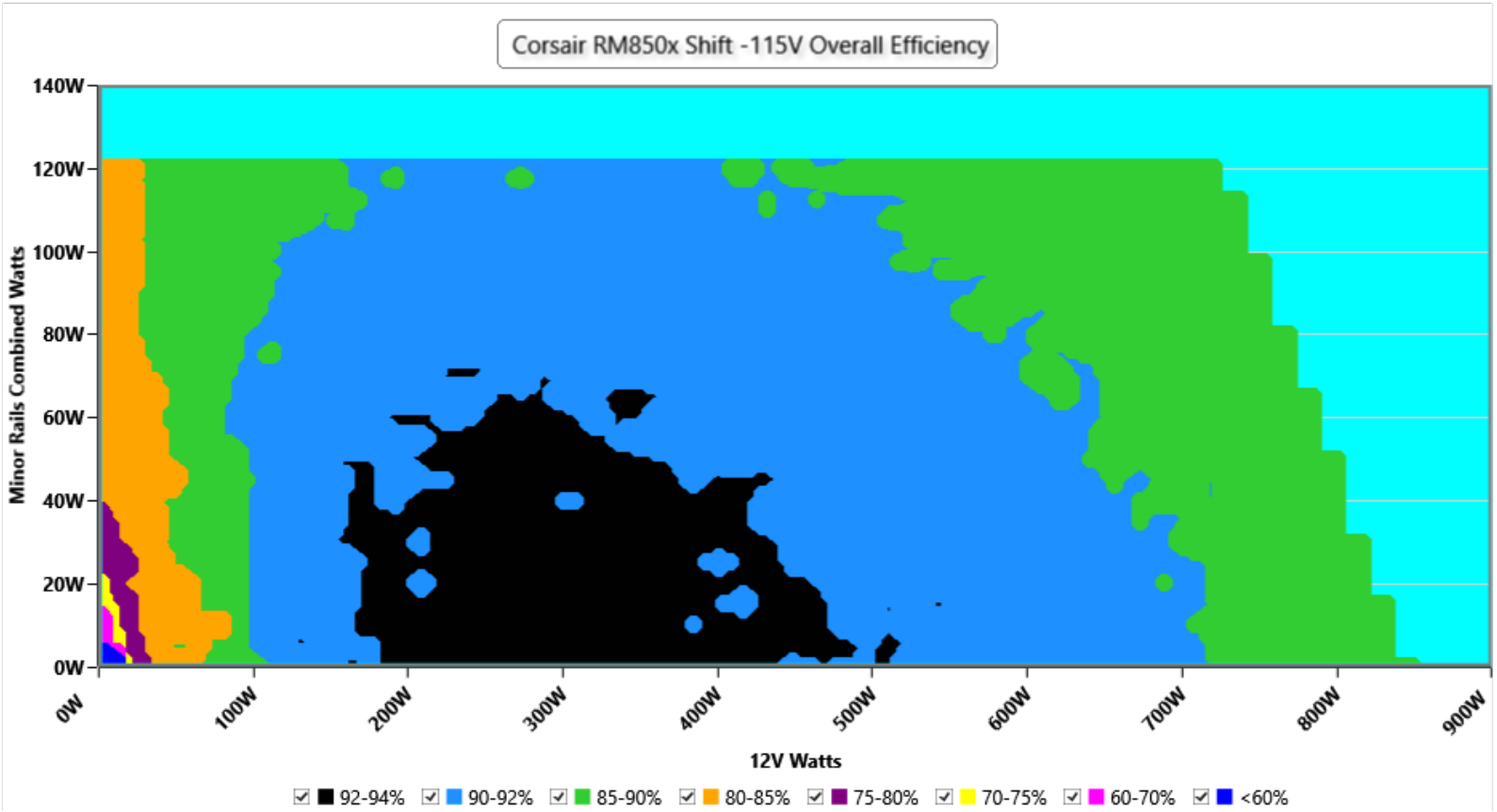
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.07 V	115.03 V	113.85 V	115.13 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.02 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.417	1.416	1.340	1.419	1.490	PASS
Mains Voltage THD:	0.15 %	0.11 %	N/A	0.21 %	2.00 %	PASS
Real Power:	0.041 W	0.021 W	N/A	0.063 W	N/A	N/A
Apparent Power:	7.858 W	7.588 W	N/A	8.146 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:	231.07 V	230.95 V	227.70 V	231.14 V	232.30 V	PASS
Mains Frequency:	50.00 Hz	49.99 Hz	49.50 Hz	50.01 Hz	50.50 Hz	PASS
Mains Voltage CF:	1.417	1.416	1.340	1.419	1.490	PASS
Mains Voltage THD:	0.17 %	0.14 %	N/A	0.27 %	2.00 %	PASS
Real Power:	0.082 W	0.043 W	N/A	0.146 W	N/A	N/A
Apparent Power:	25.584 W	25.107 W	N/A	26.056 W	N/A	N/A
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

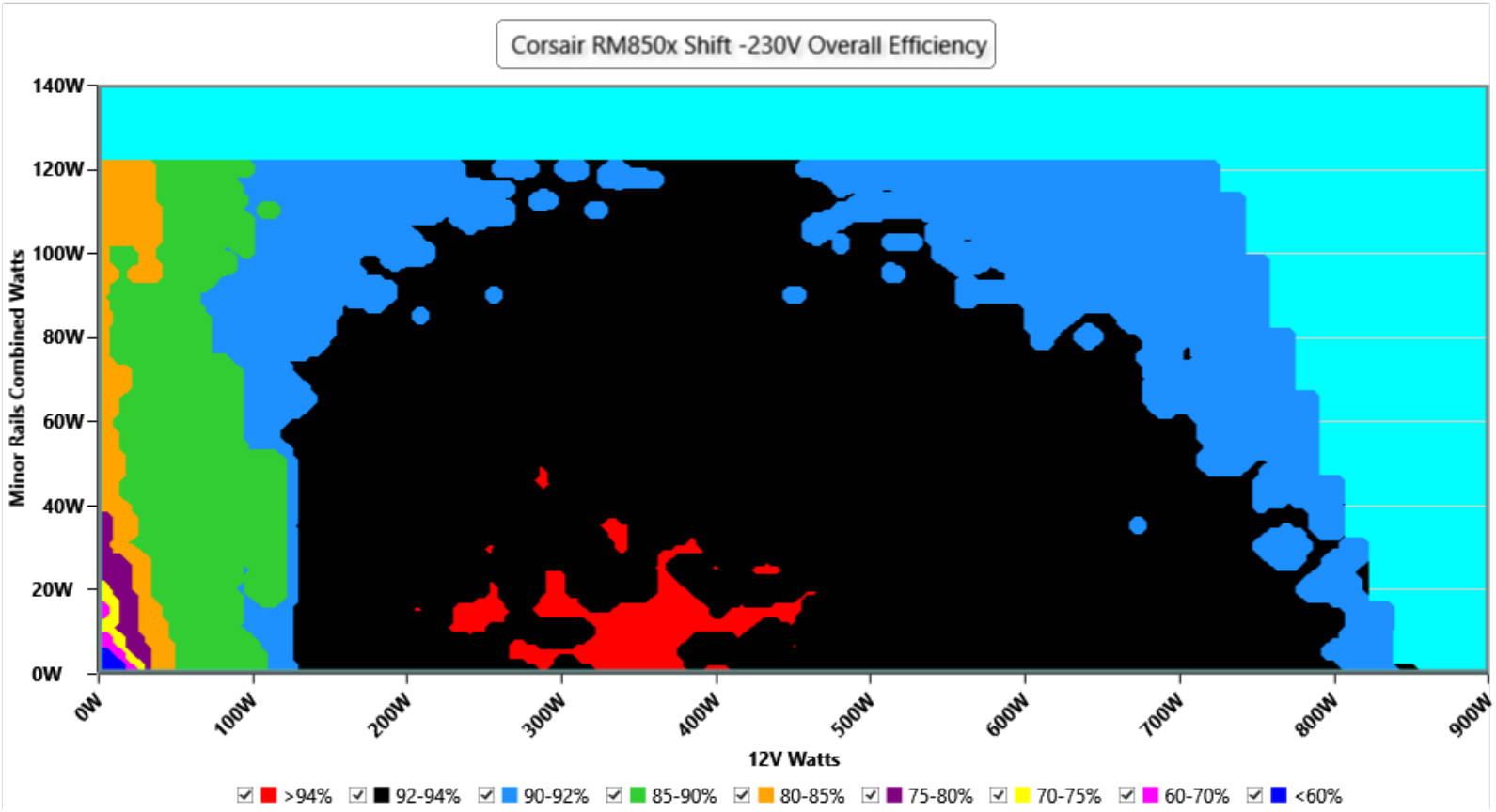
115V



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

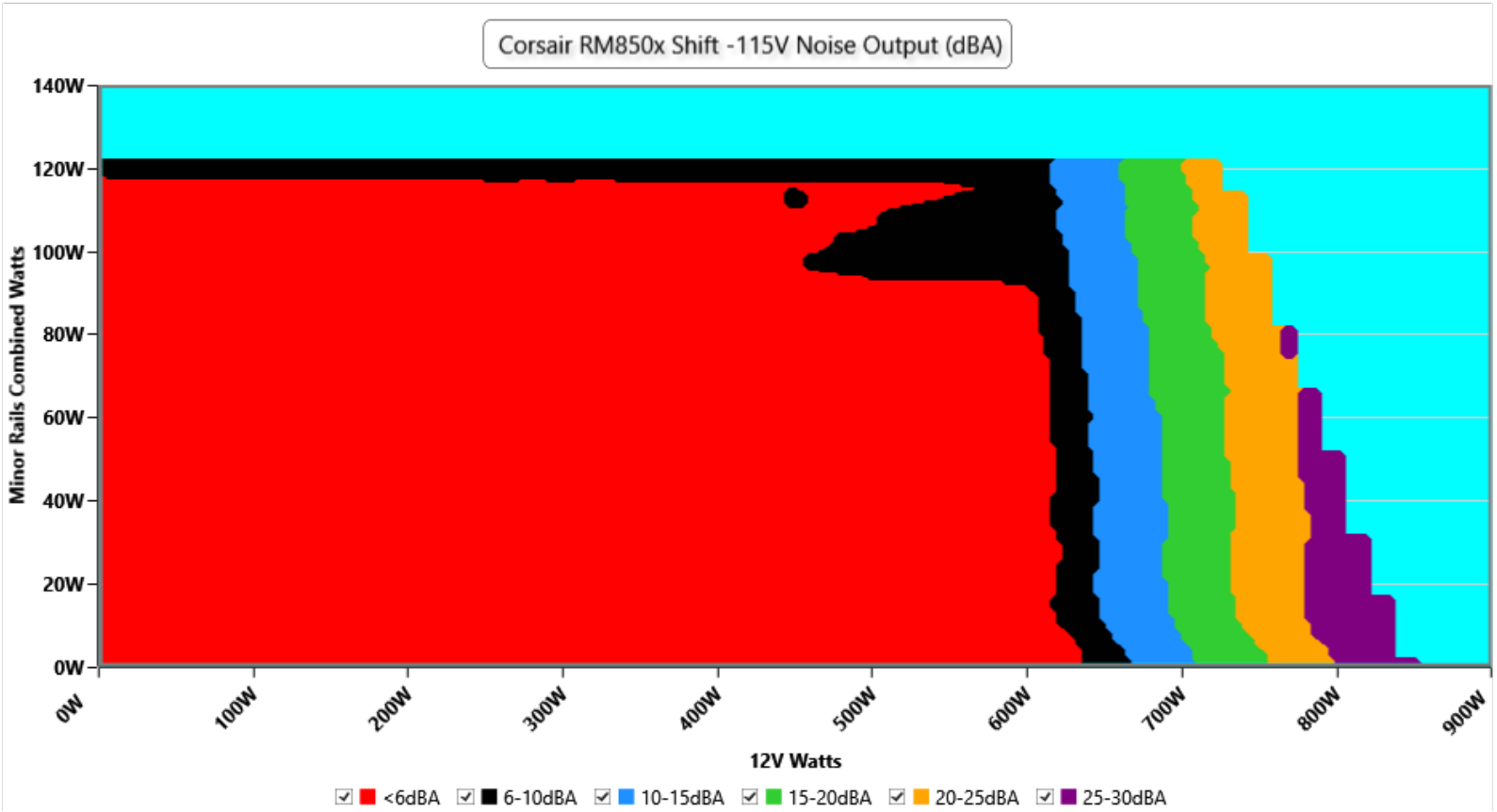


INFO

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Noise Graph

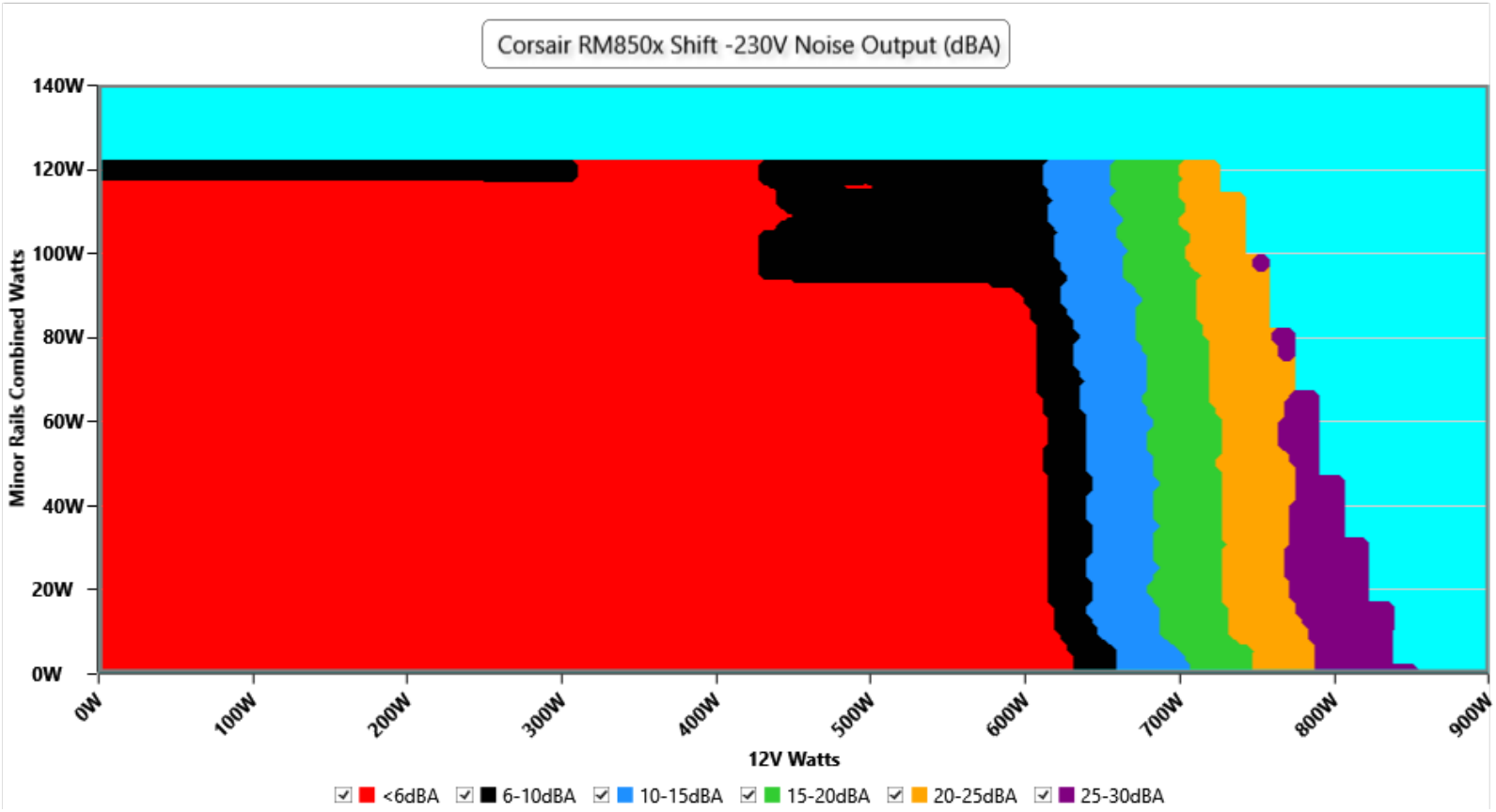
115V



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 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) · 34.9 °C	0 RPM · <6.0 dB(A) · 49.5 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 34.7 °C	0 RPM · <6.0 dB(A) · 48.8 °C	fan off in both
50%	0 RPM · <6.0 dB(A) · 36.7 °C	0 RPM · <6.0 dB(A) · 52.8 °C	fan off in both
100%	801 RPM · 24.4 dB(A) · 30.5 °C	1064 RPM · 32.8 dB(A) · 45.5 °C	**+8.4 dB(A)**

230V

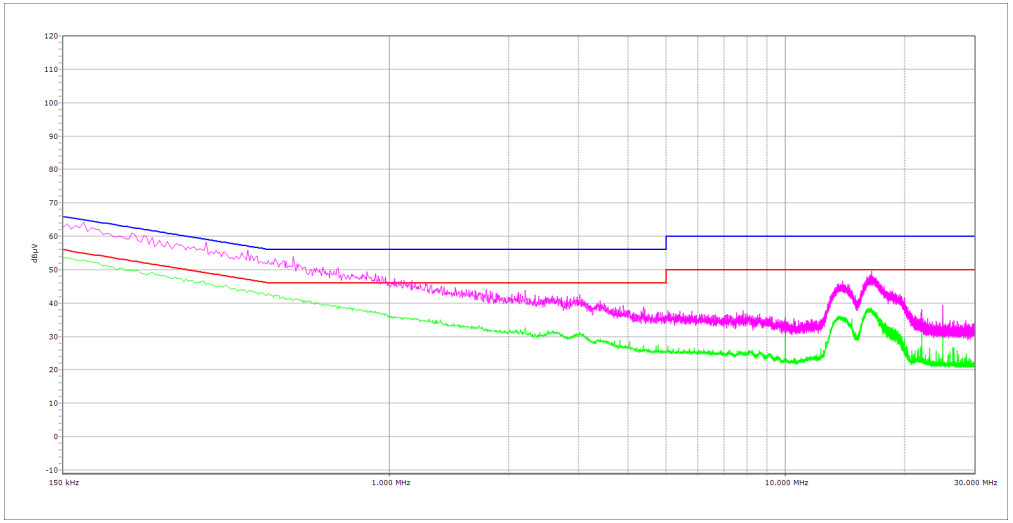
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	0 RPM · <6.0 dB(A) · 34.2 °C	0 RPM · <6.0 dB(A) · 47.9 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 35.4 °C	0 RPM · <6.0 dB(A) · 48.9 °C	fan off in both
50%	0 RPM · <6.0 dB(A) · 36.9 °C	0 RPM · <6.0 dB(A) · 51.1 °C	fan off in both
100%	810 RPM · 24.8 dB(A) · 30.3 °C	1037 RPM · 32.2 dB(A) · 45.3 °C	**+7.4 dB(A)**

INFO

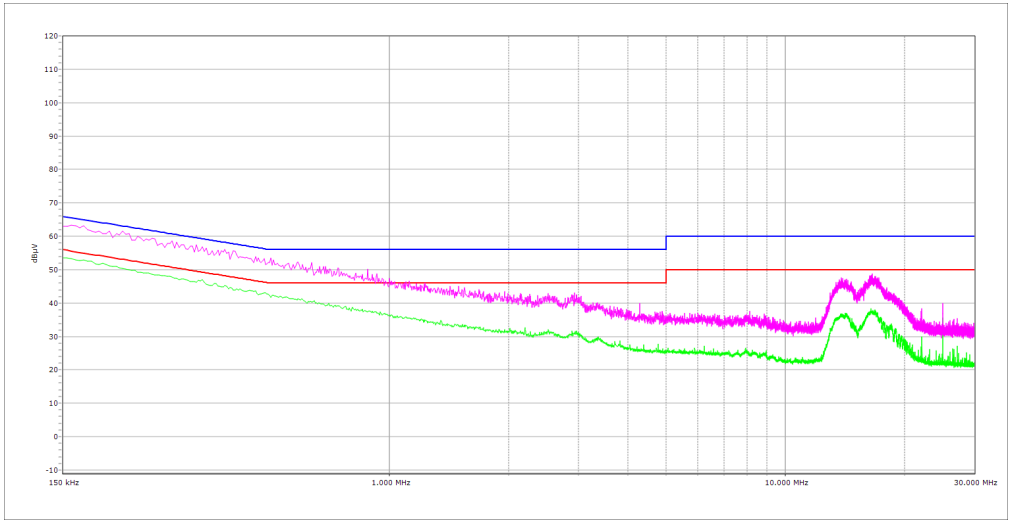
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative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



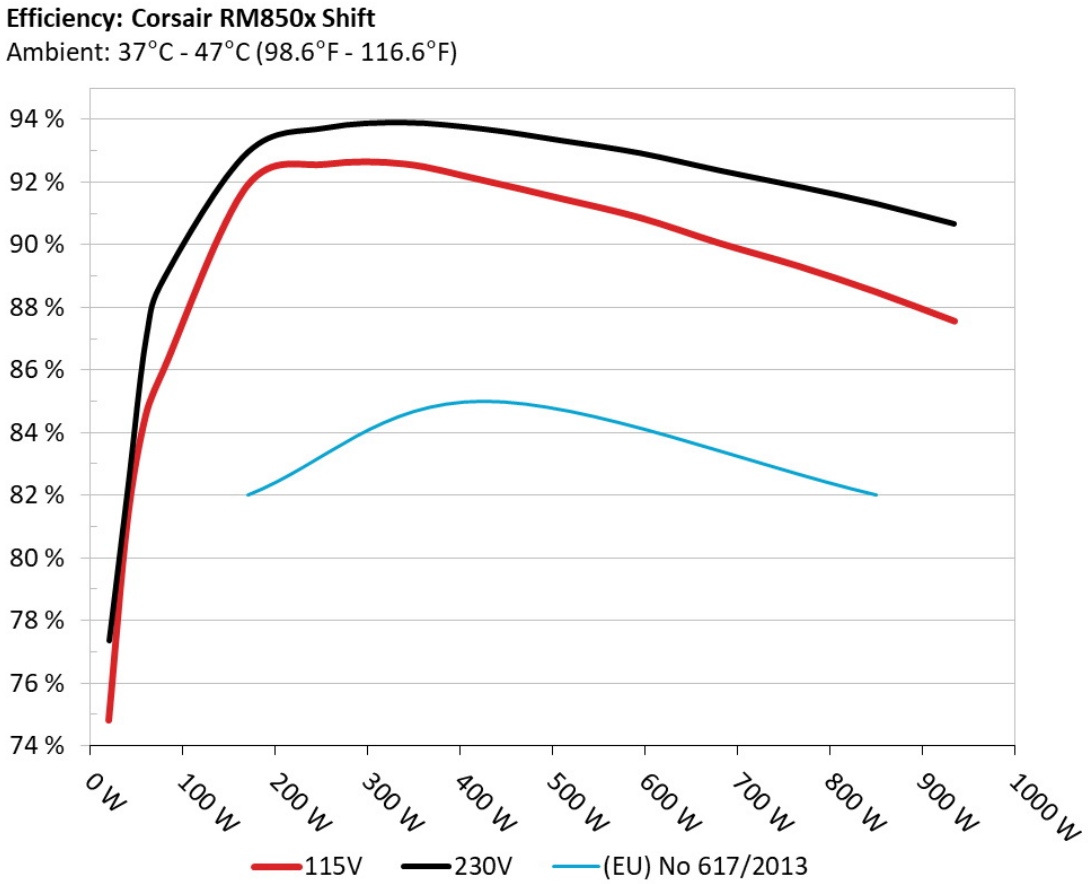
NEUTRAL



PHASE

Indicative Performance

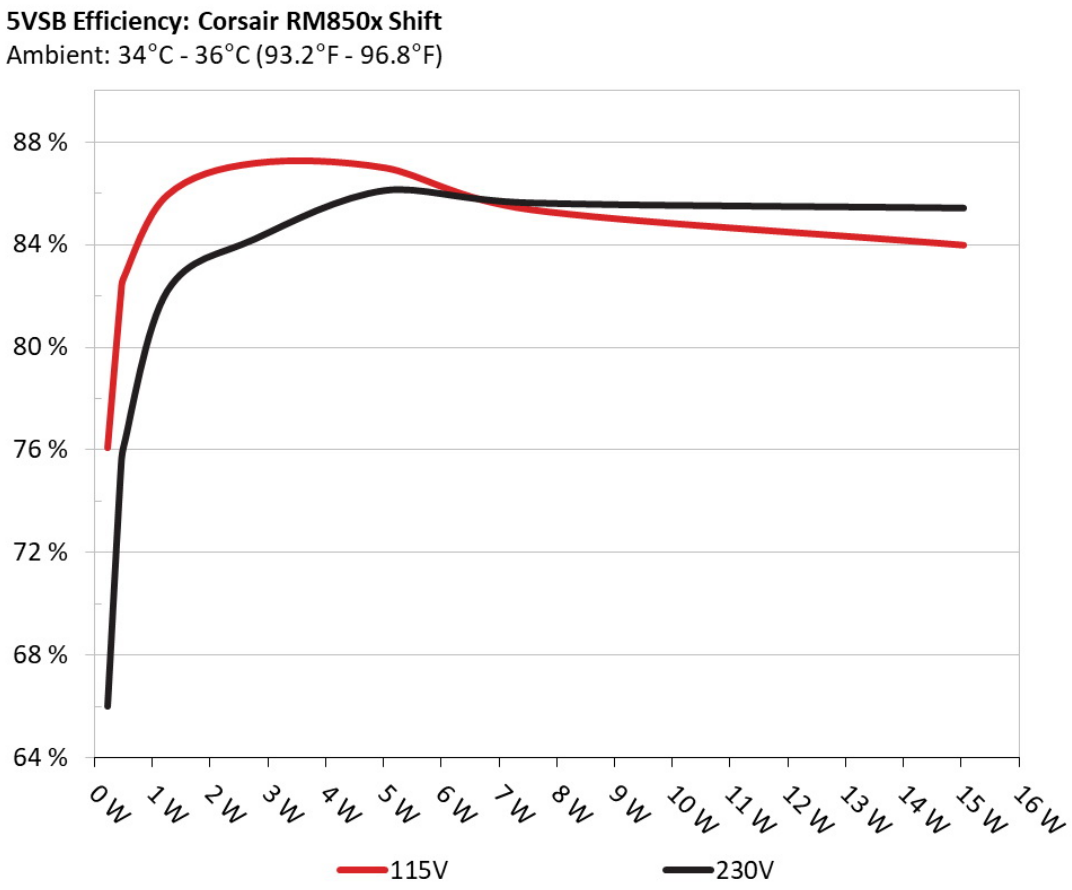
Efficiency under high ambient temperature



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**	0.227W	76.083%	0.04
	5.047V	0.299W		114.96V
2	**0.09A**	0.454W	81.975%	0.074
	5.046V	0.554W		114.9V
3	**0.55A**	2.774W	87.149%	0.29
	5.041V	3.183W		114.96V
4	**1A**	5.038W	86.965%	0.374
	5.036V	5.793W		114.96V
5	**1.5A**	7.549W	85.345%	0.415
	5.031V	8.845W		114.96V
6	**3.001A**	15.046W	83.964%	0.474
	5.015V	17.919W		114.95V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.227W	66.021%	0.014
	5.048V	0.345W		230.06V
2	**0.09A**	0.454W	75.164%	0.025
	5.046V	0.605W		230.04V
3	**0.55A**	2.773W	84.235%	0.125
	5.041V	3.292W		230.03V
4	**1A**	5.037W	86.133%	0.198
	5.036V	5.85W		230.04V
5	**1.5A**	7.546W	85.647%	0.26
	5.029V	8.81W		230.05V
6	**3.001A**	15.047W	85.442%	0.352
	5.015V	17.608W		230.05V

Protection Features

OCP (Normal @ 28.2°C)	12V: 91.8A (129.66%), 12.01V 5V: 30.2A (151%), 4.98V 3.3V: 29A (145%), 3.299V 5VSB: 5.2A (173.33%), 4.985V
OCP (Hot @ 42.2°C)	12V: 89.6A (126.55%), 12.006V 5V: 30A (150%), 4.981V 3.3V: 29A (145%), 3.302V 5VSB: 5.2A (173.33%), 4.984V
OPP (Normal @ 30°C)	1073.06W (126.24%)
OPP (Hot @ 43.3°C)	1052.98W (123.88%)
OTP	✓ (85°C @ Heat Sink)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓
PWR_OK	Proper Operation
UVP (Full Load @ 90V)	✓
UVP (No Damage @ 80V)	✓
Conducted Emissions EN55032 & 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%	**5.260A**	**1.998A**	**1.989A**	**0.993A**	85.008	86.216%	0	<6.0	49.49°C	0.971
	12.053V	5.005V	3.319V	5.035V	98.567				40.29°C	114.93V
20%	**11.545A**	**2.999A**	**2.984A**	**1.193A**	169.979	91.897%	0	<6.0	48.81°C	0.985
	12.046V	5.004V	3.318V	5.029V	184.979				40.89°C	114.92V
30%	**18.185A**	**3.499A**	**3.483A**	**1.394A**	254.993	92.572%	0	<6.0	52.19°C	0.99
	12.039V	5.002V	3.317V	5.023V	275.426				41.24°C	114.91V
40%	**24.838A**	**4A**	**3.982A**	**1.595A**	340.088	92.58%	0	<6.0	52.41°C	0.994
	12.033V	5.001V	3.316V	5.016V	367.303				41.97°C	114.88V
50%	**31.149A**	**5.002A**	**4.979A**	**1.797A**	425.113	92.055%	0	<6.0	52.81°C	0.996
	12.026V	4.999V	3.314V	5.01V	461.787				42.25°C	114.86V
60%	**37.426A**	**6.005A**	**5.977A**	**1.999A**	509.639	91.473%	762	22.7	42.68°C	0.998
	12.019V	4.997V	3.313V	5.003V	557.128				79.85°C	114.84V
70%	**43.777A**	**7.009A**	**6.978A**	**2.202A**	594.987	90.863%	450	<6.0	43.47°C	0.998
	12.012V	4.995V	3.311V	4.997V	654.823				77.71°C	114.82V
80%	**50.137A**	**8.012A**	**7.977A**	**2.305A**	679.833	90.057%	589	13.4	43.63°C	0.998
	12.006V	4.993V	3.31V	4.991V	754.84				76.86°C	114.8V
90%	**56.905A**	**8.517A**	**8.464A**	**2.408A**	765.297	89.324%	828	25.5	44.39°C	0.999
	11.999V	4.991V	3.308V	4.985V	856.776				74.81°C	114.77V
100%	**63.412A**	**9.021A**	**8.983A**	**3.017A**	850.158	88.493%	1064	32.8	45.5°C	0.999
	11.992V	4.989V	3.307V	4.973V	960.678				71.2°C	114.73V
110%	**69.799A**	**10.028A**	**10.077A**	**3.02A**	934.796	87.561%	1334	39	46.34°C	0.999
	11.985V	4.987V	3.305V	4.968V	1067.598				69.46°C	114.7V
CL1	**0.118A**	**14.47A**	**14.402A**	**0A**	121.327	81.583%	515	8	41.85°C	0.981
	12.041V	4.99V	3.312V	5.039V	148.313				54.85°C	114.63V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL2	**0.117A**	**20.045A**	**0A**	**0A**	101.412	80.064%	1196	36.2	40.45°C	0.977
	12.049V	4.989V	3.321V	5.043V	126.677				47.33°C	114.89V
CL3	**0.116A**	**0A**	**19.954A**	**0A**	67.409	75.777%	792	24	40.33°C	0.968
	12.050V	5.004V	3.308V	5.041V	88.99				47.01°C	114.9V
CL4	**70.846A**	**0A**	**0A**	**0A**	849.992	89.146%	986	30.8	45.93°C	0.999
	11.998V	5.001V	3.313V	5.009V	953.587				64.82°C	114.7V

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%	**5.260A**	**1.999A**	**1.989A**	**0.994A**	85.012	88.989%	0	<6.0	47.92°C	0.911
	12.053V	5.005V	3.319V	5.034V	95.533				40.14°C	230.06V
20%	**11.546A**	**2.999A**	**2.985A**	**1.194A**	169.99	92.966%	0	<6.0	48.93°C	0.949
	12.046V	5.004V	3.317V	5.028V	182.86				40.68°C	230.05V
30%	**18.185A**	**3.499A**	**3.483A**	**1.394A**	255.006	93.742%	0	<6.0	48.68°C	0.962
	12.040V	5.002V	3.316V	5.022V	272.047				41.1°C	230.04V
40%	**24.841A**	**4.001A**	**3.982A**	**1.596A**	340.108	93.909%	0	<6.0	49.67°C	0.969
	12.033V	5.001V	3.315V	5.015V	362.161				41.74°C	230.03V
50%	**31.159A**	**5.003A**	**4.979A**	**1.797A**	425.202	93.705%	0	<6.0	51.12°C	0.973
	12.025V	4.999V	3.314V	5.009V	453.741				42.37°C	230.02V
60%	**37.438A**	**6.005A**	**5.978A**	**2A**	509.755	93.335%	352	<6.0	42.66°C	0.976
	12.018V	4.998V	3.313V	5.002V	546.126				60.62°C	230.01V
70%	**43.788A**	**7.01A**	**6.978A**	**2.203A**	595.081	92.933%	460	<6.0	43.41°C	0.979
	12.011V	4.995V	3.311V	4.995V	640.35				59.55°C	230V
80%	**50.147A**	**8.013A**	**7.977A**	**2.305A**	679.906	92.385%	596	13.7	43.88°C	0.982
	12.005V	4.993V	3.31V	4.99V	735.942				59.07°C	229.99V
90%	**56.910A**	**8.516A**	**8.464A**	**2.408A**	765.329	91.875%	785	23.7	44.2°C	0.985
	11.998V	4.991V	3.308V	4.984V	832.992				57.56°C	229.98V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	**63.412A**	**9.019A**	**8.982A**	**3.017A**	850.138	91.322%	1037	32.2	45.28°C	0.987
	11.992V	4.99V	3.307V	4.972V	930.922				57.12°C	229.97V
110%	**69.794A**	**10.026A**	**10.076A**	**3.02A**	934.734	90.677%	1322	38.9	46.67°C	0.988
	11.984V	4.987V	3.305V	4.967V	1030.896				57.05°C	229.96V
CL1	**0.117A**	**14.468A**	**14.401A**	**0A**	121.317	83.331%	514	8	41.28°C	0.939
	12.042V	4.991V	3.312V	5.039V	145.605				52.88°C	230.04V
CL2	**0.116A**	**20.041A**	**0A**	**0A**	101.406	82.877%	1194	36.2	40.65°C	0.93
	12.051V	4.99V	3.321V	5.042V	122.365				45.65°C	230.04V
CL3	**0.116A**	**0A**	**19.956A**	**0A**	67.402	78.486%	791	23.9	40.38°C	0.901
	12.051V	5.005V	3.307V	5.04V	85.897				44.61°C	230.05V
CL4	**70.817A**	**0A**	**0A**	**0A**	849.844	92.042%	985	30.8	45.46°C	0.986
	12.001V	5.002V	3.313V	5.009V	923.347				52.37°C	229.96V

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	**1.232A**	**0.499A**	**0.497A**	**0.198A**	20.009	74.821%	0	<6.0	43.26°C	0.87
	12.060V	5.008V	3.321V	5.047V	26.751				36.58°C	114.95V
40W	**2.712A**	**0.699A**	**0.696A**	**0.297A**	40.006	81.157%	0	<6.0	44.38°C	0.94
	12.058V	5.008V	3.321V	5.045V	49.309				37.13°C	114.95V
60W	**4.191A**	**0.899A**	**0.894A**	**0.397A**	60.005	84.558%	0	<6.0	46.03°C	0.958
	12.057V	5.008V	3.321V	5.043V	70.955				38.31°C	114.94V
80W	**5.669A**	**1.099A**	**1.093A**	**0.496A**	79.971	86.058%	0	<6.0	47.38°C	0.968
	12.054V	5.007V	3.32V	5.041V	92.937				39.17°C	114.94V

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	**1.232A**	**0.499A**	**0.497A**	**0.198A**	20.014	77.362%	0	<6.0	42.56°C	0.537
	12.060V	5.008V	3.32V	5.045V	26.085				36.7°C	230.06V
40W	**2.712A**	**0.699A**	**0.696A**	**0.298A**	40.011	82.188%	0	<6.0	42.89°C	0.797
	12.058V	5.008V	3.32V	5.043V	48.712				37.22°C	230.06V
60W	**4.192A**	**0.899A**	**0.895A**	**0.397A**	60.009	87.037%	0	<6.0	44.92°C	0.869
	12.056V	5.007V	3.319V	5.042V	68.961				38.57°C	230.06V
80W	**5.670A**	**1.099A**	**1.094A**	**0.496A**	79.985	88.975%	0	<6.0	45.61°C	0.907
	12.054V	5.007V	3.319V	5.04V	89.9				39.19°C	230.06V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	11.35mV	8.87mV	4.73mV	8.36mV	Pass
20% Load	10.28mV	8.77mV	4.73mV	7.84mV	Pass
30% Load	10.23mV	8.77mV	4.93mV	8.91mV	Pass
40% Load	10.43mV	8.87mV	7.12mV	8.81mV	Pass
50% Load	10.79mV	9.18mV	7.12mV	8.56mV	Pass
60% Load	12.67mV	9.59mV	6.20mV	9.32mV	Pass
70% Load	12.57mV	10.30mV	6.00mV	10.29mV	Pass
80% Load	13.13mV	10.20mV	10.27mV	9.83mV	Pass
90% Load	13.48mV	10.86mV	9.05mV	9.99mV	Pass
100% Load	20.97mV	10.99mV	10.17mV	17.38mV	Pass
110% Load	23.87mV	12.03mV	10.13mV	17.33mV	Pass
Crossload1	18.48mV	12.03mV	9.91mV	8.56mV	Pass
Crossload2	11.75mV	11.33mV	5.49mV	8.87mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	13.94mV	11.94mV	10.02mV	8.71mV	Pass
Crossload4	21.90mV	9.65mV	6.59mV	8.78mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	15.52mV	8.83mV	4.83mV	8.15mV	Pass
20% Load	10.33mV	9.49mV	5.69mV	9.42mV	Pass
30% Load	10.28mV	8.83mV	7.83mV	8.71mV	Pass
40% Load	10.48mV	8.67mV	6.05mV	9.38mV	Pass
50% Load	10.89mV	9.34mV	6.10mV	8.71mV	Pass
60% Load	11.14mV	8.82mV	5.49mV	8.35mV	Pass
70% Load	12.41mV	9.95mV	6.05mV	10.14mV	Pass
80% Load	13.84mV	10.05mV	10.83mV	9.88mV	Pass
90% Load	14.25mV	11.07mV	9.05mV	10.39mV	Pass
100% Load	22.45mV	11.10mV	10.39mV	16.88mV	Pass
110% Load	25.47mV	11.56mV	9.58mV	17.15mV	Pass
Crossload1	18.56mV	12.34mV	10.01mV	9.52mV	Pass
Crossload2	14.91mV	11.58mV	4.73mV	9.07mV	Pass
Crossload3	14.40mV	11.78mV	10.02mV	8.91mV	Pass
Crossload4	22.31mV	9.86mV	6.17mV	9.12mV	Pass

The results above are not used in the certification process

Corsair RM850x Shift (ATX v3.1)



Top side



Power specifications label

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