CORSAIR

Corsair RM850e (ATX v3.1)

Serial Number A9D9F4420002EL

Lab ID CR85002630

Certification ID 252630

Test Result Report ID: 24PS2630A

Certificate Issue Date: Nov 4, 2024

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	RM850e (ATX v3.1)
OEM/ODM	HEC
Serial Number	A9D9F4420002EL
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	120mm Rifle Bearing Fan (HA1225H12SF-Z)
Semi-Passive Operation	✓
Cybenetics Testing Information	
Lab ID	CR85002630
Date of receipt	Oct 22, 2024
Testing Date	Nov 4, 2024
Report Issued Date	Nov 4, 2024
DUT Notes	The results apply to both the black and white variants.
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 (600mm)	1	1	18-20AWG	No
4+4 pin EPS12V (740mm)	2	2	18AWG	No
6+2 pin PCIe (640mm)	1	1	16AWG	No
2 x 6+2 pin PCIe (640mm)	1	2	16-18AWG	No
12+2 pin PCIe (640mm) (600W)	1	1	16-24AWG	No
SATA (450mm+100mm+100mm+100mm)	1	4	18AWG	No

SATA (445mm+100mm) / 4-pin Molex (+95mm+100mm)	1	2 / 2	18AWG	No
AC Power Cord (1375mm) - C13 coupler	1	1	18AWG	-

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
	Watts	150		850	15	0
Total Max. Power (W)		850				

Parts Description

General Data	-
Manufacturer (OEM)	HEC
PCB Type	Single-Sided
Primary Side	-
Transient Filter	4x Y caps, 3x X caps, 2x CM chokes, 1x MOV, 1x Power IntegrationsCAP200DG (Discharge IC)
Inrush Protection	NTC Thermistor SCK-056 (5 Ohm) & Relay
Bridge Rectifier(s)	2x GBU15KL (800V, 15A @ 100°C)
APFC MOSFETs	2x Great Power GP36S60YERD
APFC Boost Diode	1x Wolfspeed C6D08065A (650V, 8A @ 155°C)

Bulk Cap(s)	1x Teapo (400V, 470uF, 2,000h @ 105°C, LS)
Main Switchers	2x Infineon IPA60R120P7 (650V, 16A @ 100°C, Rds(on): 0.120Ohm)
APFC Controller	Champion CM6500UNX & CM03AX
Resonant Controller	Champion CM6901T6X
Topology	Primary side: APFC, Half-Bridge & LLC Resonant converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	-
+12V MOSFETs	no info
5V & 3.3V	DC-DC Converters: 4x Potens Semiconductor PDC3906X (30V, 51A @ 100°C, Rds(on): 5.5mOhm) PWM Controller(s): 1x ANPECAPW7159C
Filtering Capacitors	Electrolytic: 6x Teapo (1-3,000h @ 105°C, SC), 2x Nippon Chemi-con (2-5,000h @ 105°C, KZE) 1x Rubycon (4-10,000h @ 105°C, YXF) Polymer: 6x Teapo, 16x
Supervisor IC	Weltrend WT7527RT (OCP, OVP, UVP, SCP, PG)
Fan Controller	Nuvoton M031FB0AE
Fan Model	Hong Hua HA1225H12F-Z (120mm, 12V, 0.58A, Rifle Bearing Fan)
5VSB Circuit	-
Rectifier	1x PS1060L SBR (60V, 10A)
Standby PWM Controller	Excelliance MOS EM8569D

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)	88.568%
Average Noise Output (>1450 Load Combinations)	22.81dBA
Average PF (>1450 Load Combinations)	0.982
Efficiency With 10W (≤500W) or 2% (>500W) Load	66.870%
Standby Power Consumption	0.0490W
Non-Accredited	
12V Ripple (Full Load)	36.19mV
5V Ripple (Full Load)	13.82mV
3.3V Ripple (Full Load)	18.16mV
5VSB Ripple (Full Load)	30.55mV
12V Load Regulation	0.83%
5V Load Regulation	0.58%
3.3V Load Regulation	1.10%
5VSB Load Regulation	2.23%
Inrush Current	34.060A

230V

Accredited	
Average Efficiency (>1450 load combinations)	90.783%
Average Noise Output (>1450 Load Combinations)	22.84dBA
Average PF (>1450 Load Combinations)	0.956
Efficiency With 10W (≤500W) or 2% (>500W) Load	68.969%
Standby Power Consumption	0.1191W
Non-Accredited	
12V Ripple (Full Load)	36.77mV
5V Ripple (Full Load)	14.29mV
3.3V Ripple (Full Load)	18.51mV

5VSB Ripple (Full Load)		29.50mV
12V Load Regulation		0.83%
5V Load Regulation		0.58%
3.3V Load Regulation		1.10%
5VSB Load Regulation		2.23%
Inrush Current		67.740A
12V Transient Response (200%)		11.40V
5V Transient Response (200%)		4.885V
3.3V Transient Response (200%)		3.203V
5VSB Transient Response (200%)		4.885V
Hold-Up Time & PWR_OK Signal		18.00ms
AC Loss to PWR_OK Hold Up Time		15.50ms
PWR_OK Inactive to DC Loss Delay		2.50ms
PSU Timings: T1 (20% / 100%)	52.0ms	53.0ms
PSU Timings: T3 (20% / 100%)	121.0ms	124.0ms
12V OCP (27.3°C / 44.5°C)	82.62A (116.69%), 12.102V	82.42A (116.42%), 12.111V
5V OCP (27.3°C / 44.5°C)	29.2A (146.00%), 4.983V	28.1A (140.50%), 4.982V
3.3V OCP (27.3°C / 44.5°C)	28A (140.00%), 3.262V	26A (130.00%), 3.27V
5VSB OCP (27.3°C / 44.5°C)	4.1A (136.67%), 4.885V	4A (133.33%), 4.891V
OPP (28.63°C / 41.34°C)	116.92%	116.57%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	18
AC Loss to PWR_OK Hold Up Time (ms)	15.5
PWR_OK Inactive to DC Loss Delay (ms)	2.5

Vampire Power

Tables

115V

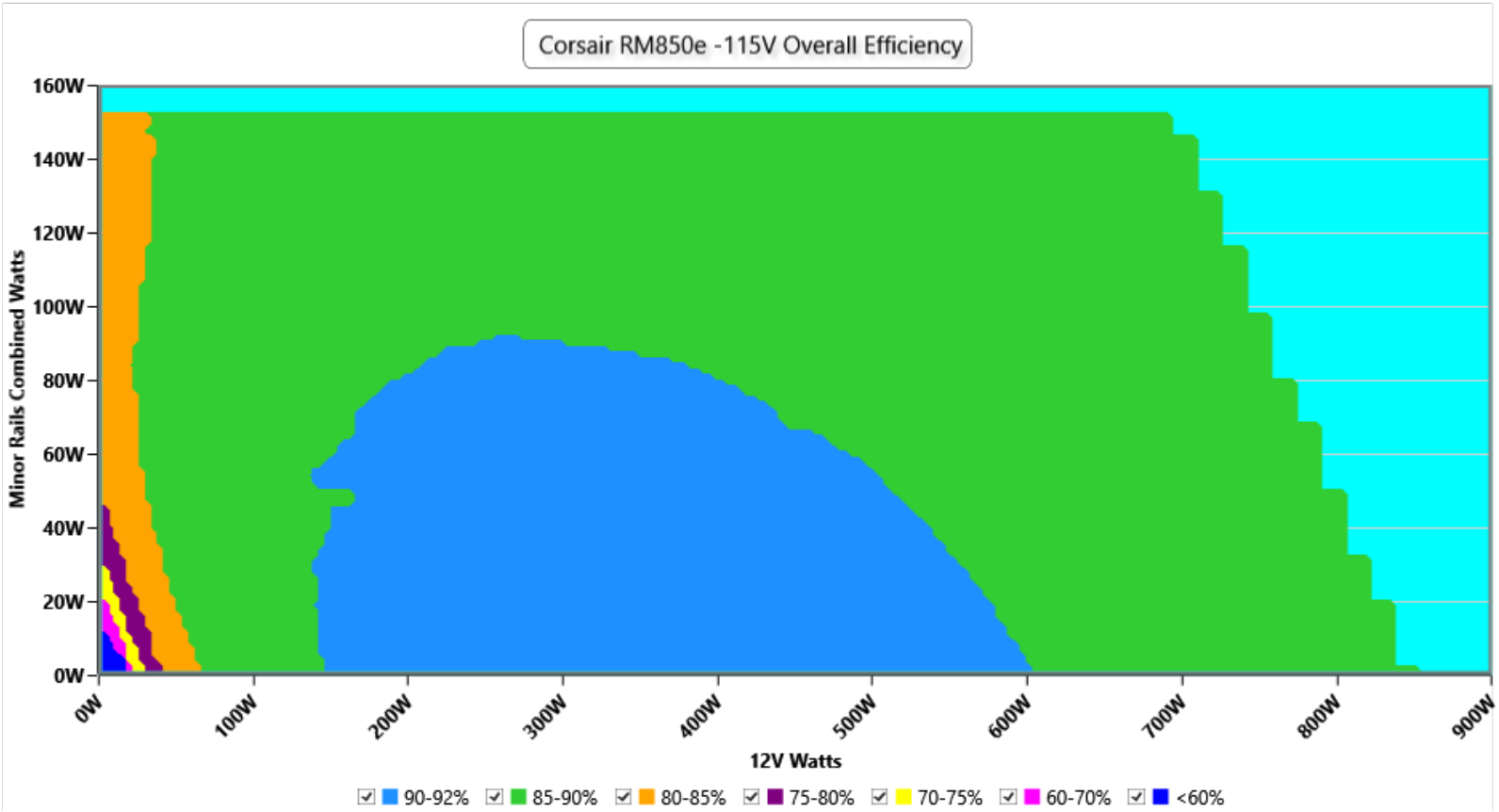
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.07 V	115.04 V	113.85 V	115.11 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.95 Hz	59.40 Hz	60.03 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.418	1.490	PASS
Mains Voltage THD:	0.13 %	0.09 %	N/A	0.18 %	2.00 %	PASS
Real Power:	0.049 W	-0.004 W	N/A	0.093 W	N/A	N/A
Apparent Power:	10.224 W	10.100 W	N/A	10.351 W	N/A	N/A
Power Factor:	0.007	N/A	N/A	N/A	N/A	N/A

230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	231.04 V	230.95 V	227.70 V	231.10 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	1.417	1.340	1.419	1.490	PASS
Mains Voltage THD:	0.17 %	0.15 %	N/A	0.26 %	2.00 %	PASS
Real Power:	0.119 W	0.074 W	N/A	0.183 W	N/A	N/A
Apparent Power:	34.822 W	34.508 W	N/A	35.150 W	N/A	N/A
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

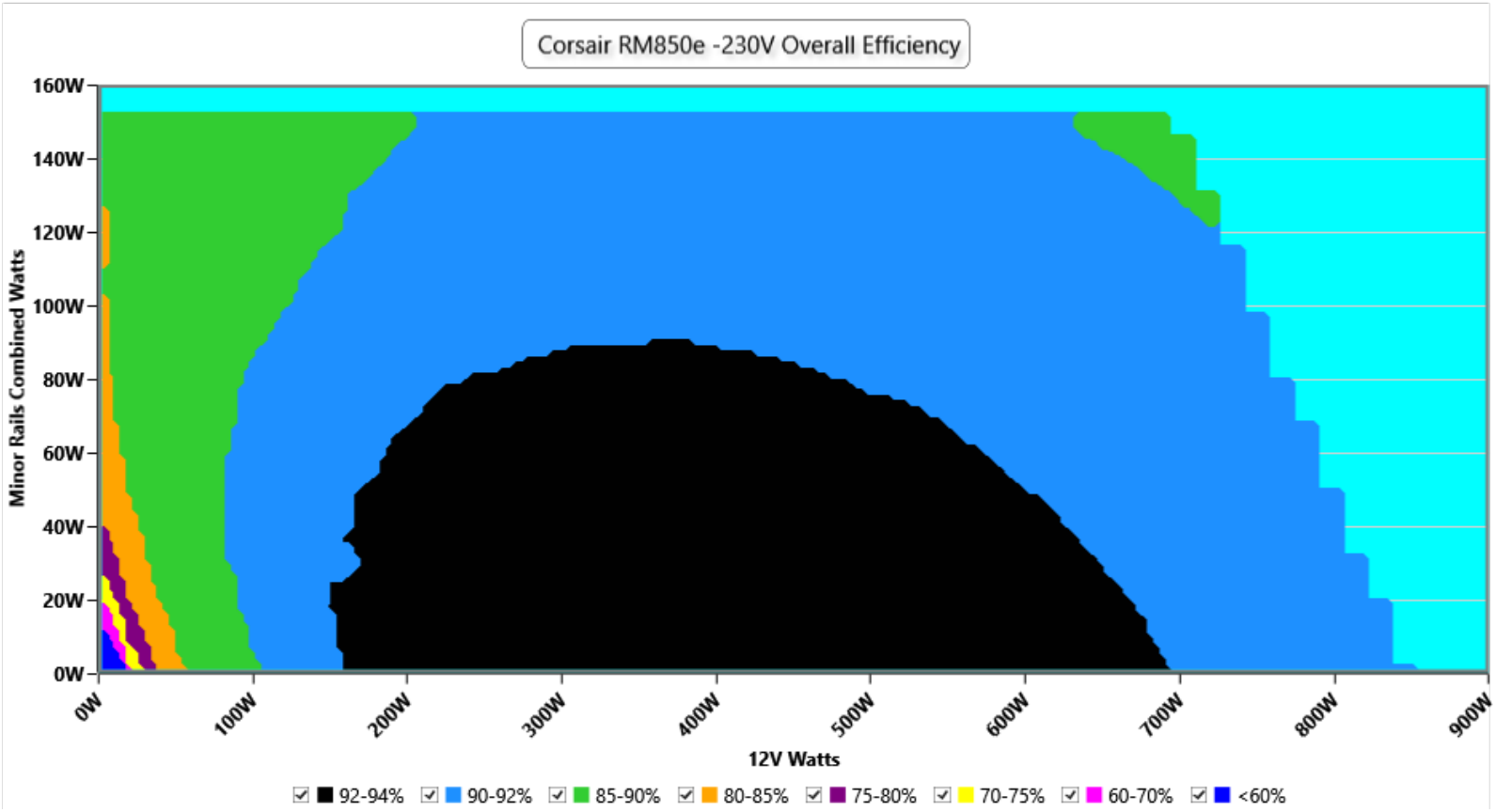
115V



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

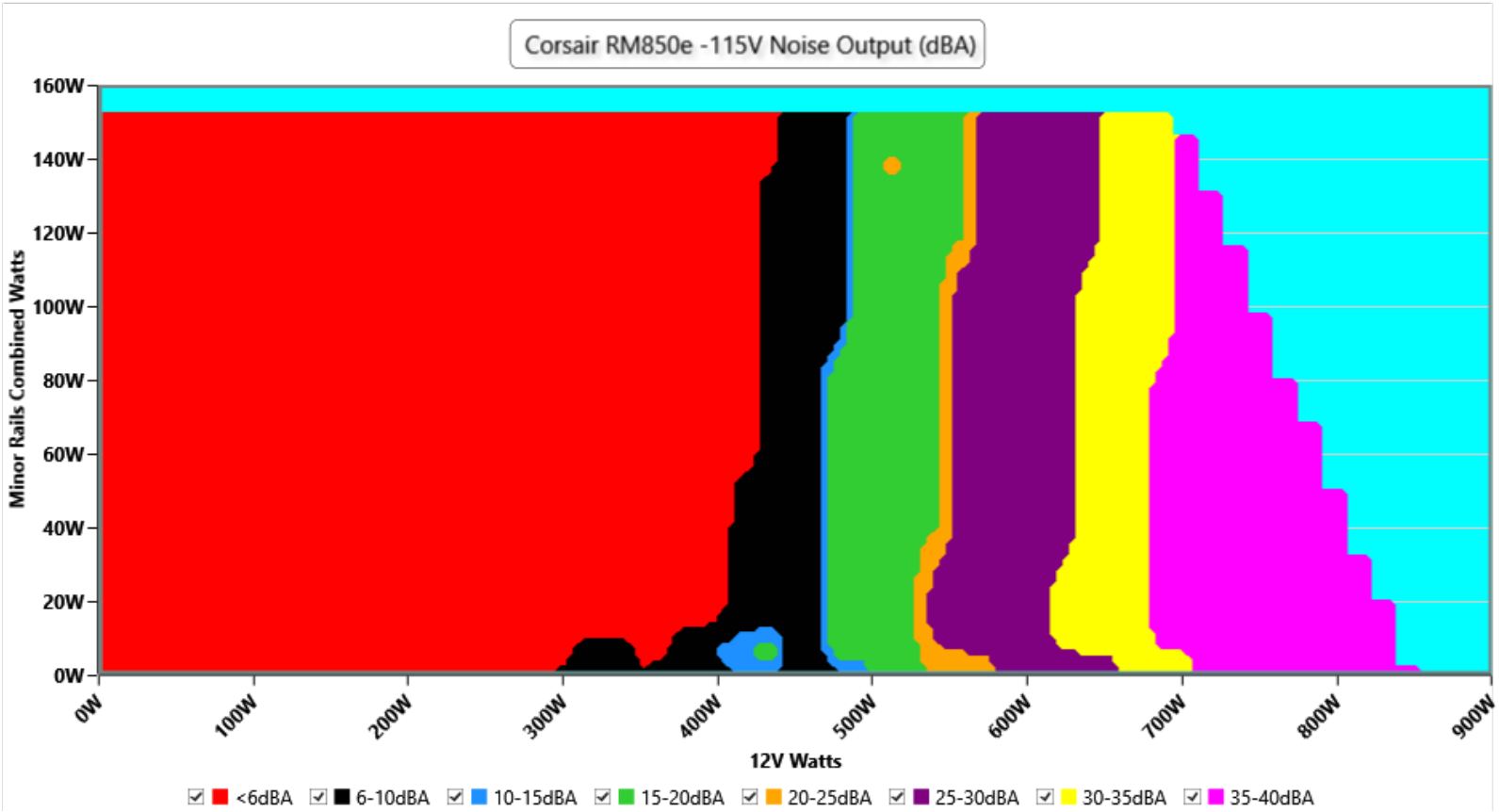


INFO

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

Noise Graph

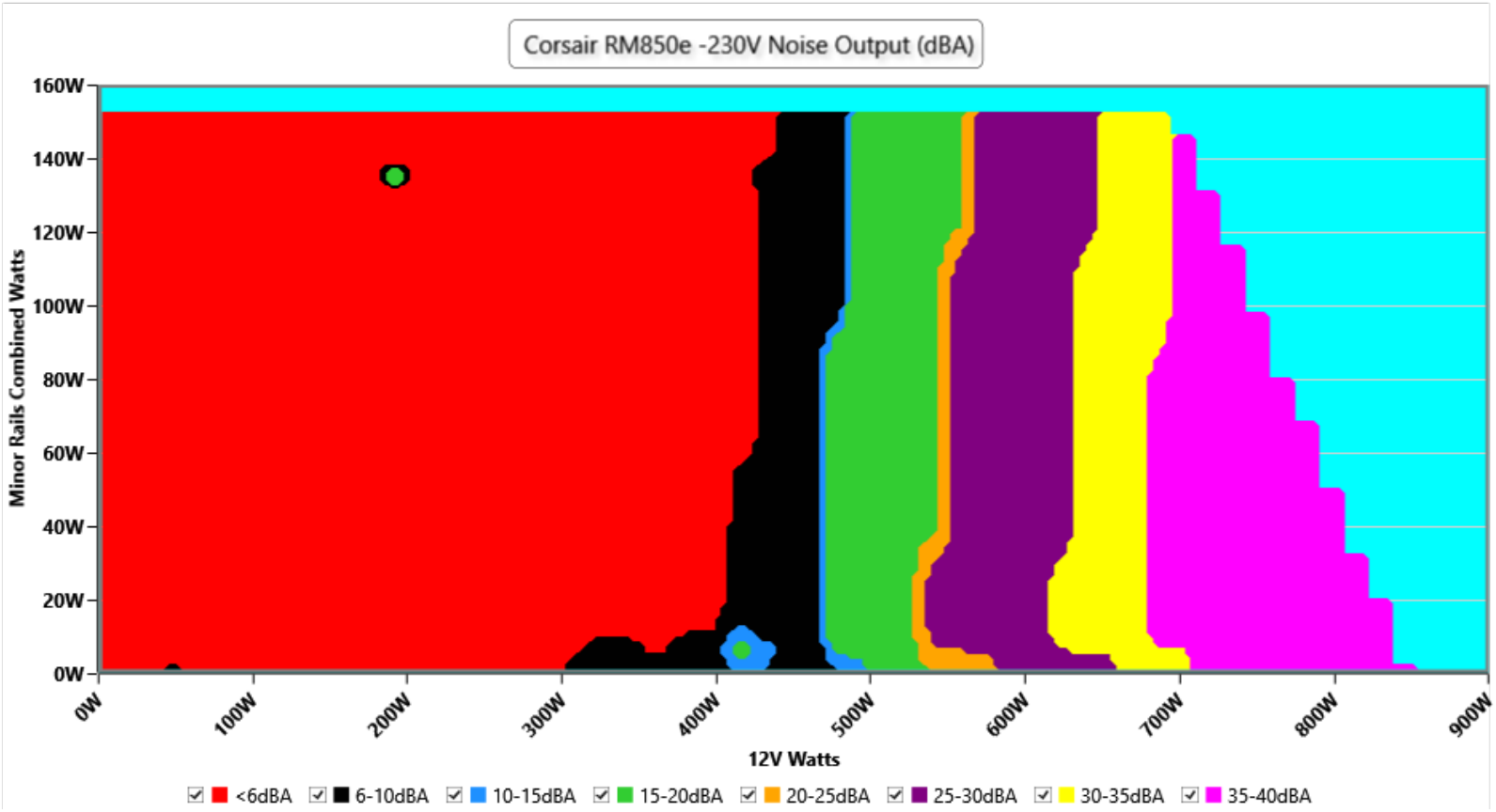
115V



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) · 36.2 °C	0 RPM · <6.0 dB(A) · 50.4 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 37.5 °C	0 RPM · <6.0 dB(A) · 50.7 °C	fan off in both
50%	403 RPM · <6.0 dB(A) · 30.8 °C	411 RPM · <6.0 dB(A) · 42.1 °C	fan off in both
100%	1471 RPM · 37.0 dB(A) · 30.5 °C	1724 RPM · 42.2 dB(A) · 45.2 °C	**+5.2 dB(A)**

230V

Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	0 RPM · <6.0 dB(A) · 33.6 °C	0 RPM · <6.0 dB(A) · 49.2 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 34.2 °C	0 RPM · <6.0 dB(A) · 49.5 °C	fan off in both
50%	401 RPM · <6.0 dB(A) · 30.1 °C	411 RPM · <6.0 dB(A) · 42.3 °C	fan off in both
100%	1470 RPM · 37.0 dB(A) · 30.9 °C	1714 RPM · 42.1 dB(A) · 46.0 °C	**+5.1 dB(A)**

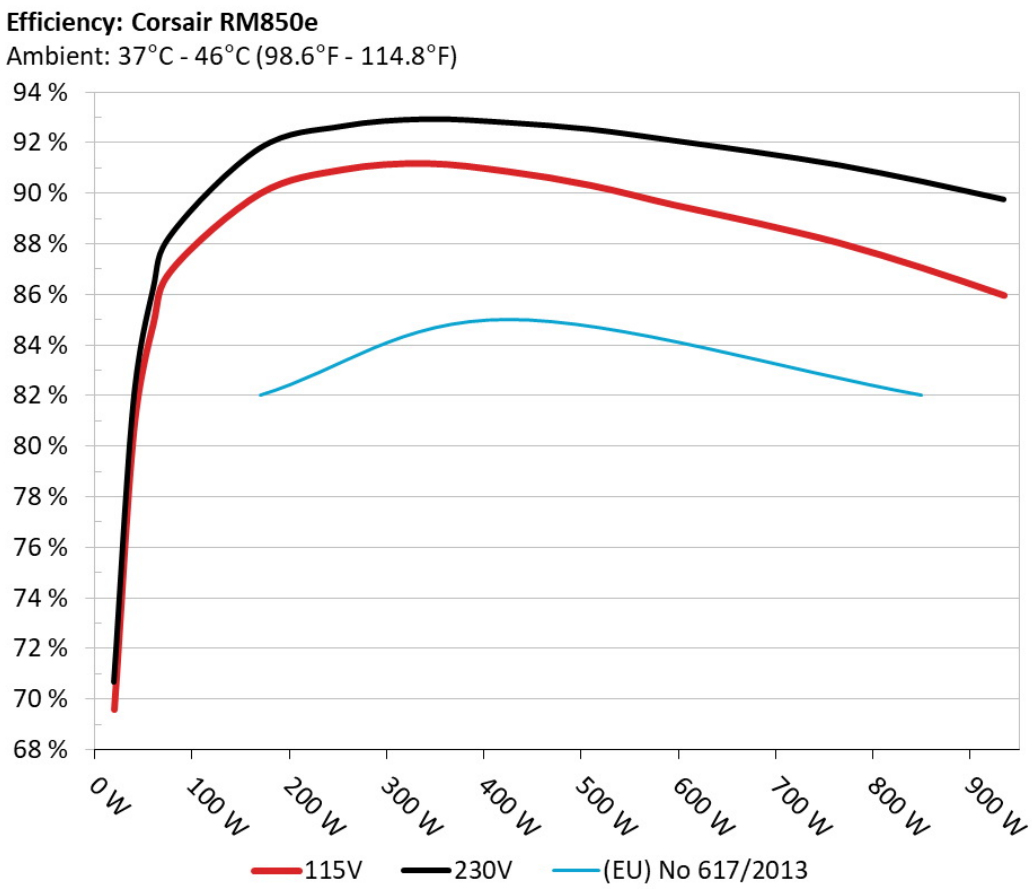
INFO

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.

Indicative Performance

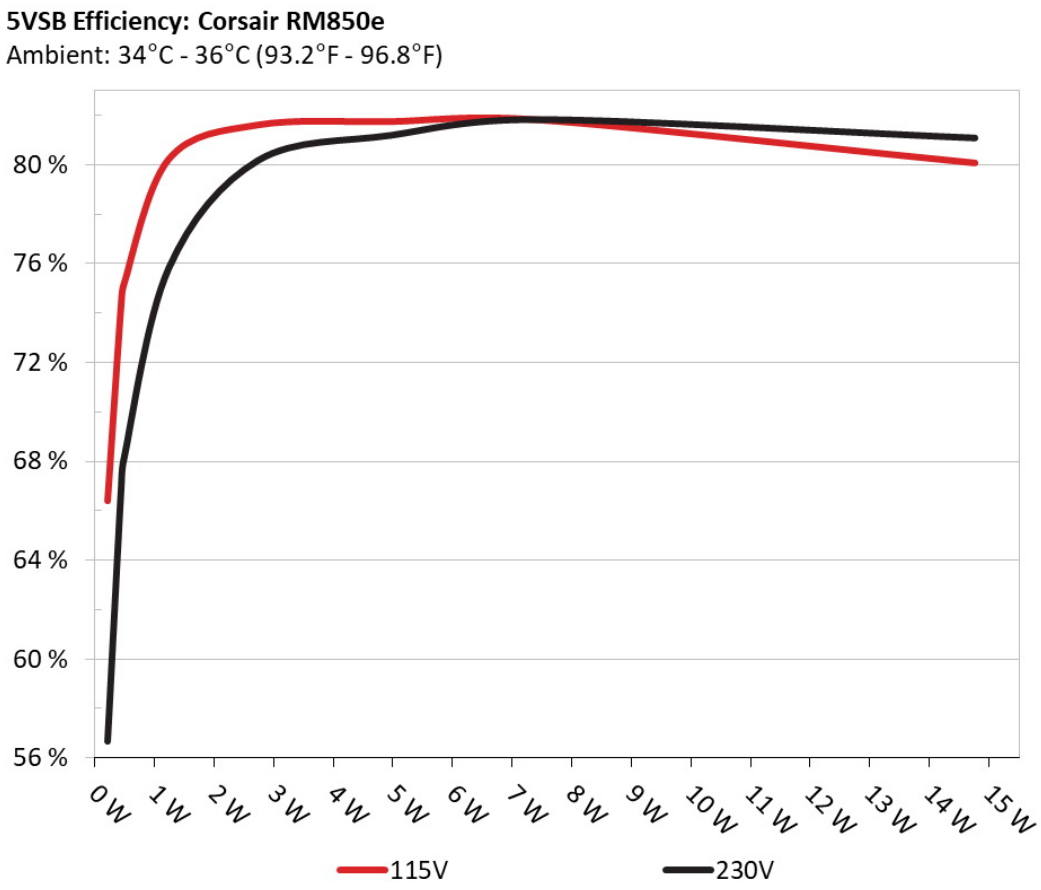
Efficiency under high ambient temperature



INFO

The PSU`s efficiency under high ambient temperatures with 115V and 230V input. For this graph the results of the 10-110% load regulation table are used

5VSB Efficiency



INFO

This graph depicts the efficiency levels of the 5VSB rail with 115V and 230V input

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

115V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.225W	66.4%	0.034
	5.002V	0.339W		115.17V
2	**0.09A**	0.45W	74.298%	0.06
	5.001V	0.606W		115.18V
3	**0.55A**	2.745W	81.598%	0.26
	4.99V	3.364W		115.17V
4	**1A**	4.98W	81.731%	0.357
	4.979V	6.093W		115.17V
5	**1.5A**	7.451W	81.798%	0.407
	4.966V	9.109W		115.17V
6	**3.001A**	14.757W	80.058%	0.478
	4.918V	18.433W		115.17V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.225W	56.661%	0.012
	5.004V	0.398W		230.43V
2	**0.09A**	0.45W	66.83%	0.02
	5.002V	0.674W		230.43V
3	**0.55A**	2.745W	80.155%	0.098
	4.99V	3.425W		230.41V
4	**1A**	4.979W	81.176%	0.164
	4.978V	6.134W		230.41V
5	**1.5A**	7.45W	81.813%	0.221
	4.965V	9.107W		230.42V
6	**3.001A**	14.768W	81.069%	0.325
	4.922V	18.218W		230.42V

Protection Features

OCP (Normal @ 27.3°C)	12V: 82.62A (116.69%), 12.102V 5V: 29.2A (146.00%), 4.983V 3.3V: 28A (140.00%), 3.262V 5VSB: 4.1A (136.67%), 4.885V
OCP (Hot @ 44.5°C)	12V: 82.42A (116.42%), 12.111V 5V: 28.1A (140.50%), 4.982V 3.3V: 26A (130.00%), 3.27V 5VSB: 4A (133.33%), 4.891V
OPP (Normal @ 28.6°C)	993.81W (116.92%)
OPP (Hot @ 41.3°C)	990.88W (116.57%)
OTP	✓ (125°C @ Heat Sink)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓
PWR_OK	Proper Operation
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%	**5.209A**	**2A**	**2.003A**	**1.006A**	85.01	86.799%	0	<6.0	50.41°C	0.931
	12.173V	5.002V	3.296V	4.974V	97.941				40.42°C	115.15V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
20%	**11.435A**	**3.001A**	**3.007A**	**1.209A**	169.98	89.975%	0	<6.0	50.74°C	0.957
	12.162V	4.999V	3.293V	4.966V	188.919				40.83°C	115.13V
30%	**18.043A**	**3.503A**	**3.511A**	**1.412A**	254.997	90.921%	0	<6.0	55.56°C	0.981
	12.135V	4.997V	3.29V	4.958V	280.465				41.38°C	115.09V
40%	**24.605A**	**4.005A**	**4.016A**	**1.616A**	340.094	91.166%	0	<6.0	58.38°C	0.985
	12.147V	4.995V	3.287V	4.951V	373.047				41.82°C	115.07V
50%	**30.873A**	**5.01A**	**5.026A**	**1.822A**	425.187	90.844%	411	<6.0	42.1°C	0.988
	12.136V	4.991V	3.283V	4.942V	468.041				50.97°C	115.04V
60%	**37.109A**	**6.017A**	**6.039A**	**2.001A**	509.598	90.299%	615	7.1	42.57°C	0.989
	12.124V	4.988V	3.279V	4.935V	564.352				50.6°C	115.01V
70%	**43.428A**	**7.024A**	**7.055A**	**2.234A**	595.06	89.527%	856	19.1	43.37°C	0.991
	12.111V	4.985V	3.275V	4.925V	664.674				50.72°C	114.99V
80%	**49.757A**	**8.033A**	**8.072A**	**2.338A**	679.899	88.816%	1067	27.4	43.94°C	0.992
	12.098V	4.981V	3.271V	4.92V	765.518				50.84°C	114.97V
90%	**56.492A**	**8.538A**	**8.57A**	**2.443A**	765.339	88.024%	1275	32.9	44.33°C	0.993
	12.087V	4.979V	3.268V	4.913V	869.465				51.62°C	114.94V
100%	**62.971A**	**9.045A**	**9.099A**	**3.067A**	850.156	87.045%	1724	42.2	45.24°C	0.993
	12.076V	4.976V	3.264V	4.891V	976.691				52.73°C	114.9V
110%	**69.338A**	**10.055A**	**10.214A**	**3.069A**	934.72	85.953%	2111	46.8	46.28°C	0.992
	12.064V	4.973V	3.26V	4.888V	1087.489				53.78°C	114.87V
CL1	**0.116A**	**18.119A**	**18.19A**	**0A**	151.317	82.89%	1588	39.4	40.41°C	0.958
	12.149V	4.984V	3.277V	4.995V	182.556				46.45°C	115.13V
CL2	**0.115A**	**20.046A**	**0A**	**0A**	101.405	82.881%	847	18.6	40.93°C	0.942
	12.163V	4.989V	3.3V	5.003V	122.35				45.63°C	115.15V
CL3	**0.115A**	**0A**	**20.13A**	**0A**	67.399	77.353%	552	<6.0	40.69°C	0.927
	12.162V	5.002V	3.278V	5V	87.131				46.1°C	115.15V
CL4	**70.314A**	**0A**	**0A**	**0A**	849.774	87.976%	1493	37.3	45.24°C	0.993
	12.086V	4.987V	3.277V	4.982V	965.928				50.34°C	114.89V

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
10%	**5.208A**	**2A**	**2.002A**	**1.005A**	85.01	88.321%	0	<6.0	49.22°C	0.83
	12.175V	5.002V	3.297V	4.975V	96.252				40.08°C	230.41V
20%	**11.432A**	**3.001A**	**3.007A**	**1.208A**	169.983	91.783%	0	<6.0	49.54°C	0.906
	12.165V	4.999V	3.293V	4.967V	185.202				40.92°C	230.4V
30%	**18.009A**	**3.503A**	**3.511A**	**1.412A**	255	92.655%	0	<6.0	51.97°C	0.96
	12.158V	4.997V	3.29V	4.959V	275.215				41.12°C	230.39V
40%	**24.601A**	**4.005A**	**4.016A**	**1.616A**	340.1	92.933%	0	<6.0	53.44°C	0.967
	12.149V	4.995V	3.288V	4.951V	365.961				41.56°C	230.38V
50%	**30.874A**	**5.01A**	**5.026A**	**1.821A**	425.201	92.797%	411	<6.0	42.32°C	0.972
	12.136V	4.991V	3.283V	4.943V	458.209				49.42°C	230.37V
60%	**37.109A**	**6.017A**	**6.039A**	**2.001A**	509.609	92.53%	615	7.1	42.84°C	0.974
	12.124V	4.988V	3.279V	4.936V	550.749				49.52°C	230.36V
70%	**43.427A**	**7.025A**	**7.055A**	**2.234A**	595.079	92.087%	856	19.1	43.19°C	0.977
	12.111V	4.984V	3.275V	4.926V	646.215				48.88°C	230.35V
80%	**49.755A**	**8.033A**	**8.072A**	**2.338A**	679.905	91.628%	1068	27.4	43.84°C	0.979
	12.099V	4.981V	3.271V	4.921V	742.022				49.19°C	230.34V
90%	**56.491A**	**8.538A**	**8.57A**	**2.444A**	765.341	91.115%	1274	32.9	44.86°C	0.98
	12.087V	4.979V	3.267V	4.912V	839.972				49.95°C	230.32V
100%	**62.967A**	**9.045A**	**9.099A**	**3.067A**	850.145	90.473%	1714	42.1	45.96°C	0.981
	12.077V	4.976V	3.264V	4.892V	939.669				50.89°C	230.31V
110%	**69.343A**	**10.056A**	**10.215A**	**3.069A**	934.728	89.757%	2114	46.9	46.23°C	0.982
	12.063V	4.973V	3.26V	4.889V	1041.406				51.22°C	230.29V
CL1	**0.116A**	**18.12A**	**18.19A**	**0A**	151.319	84.496%	1589	39.4	41.51°C	0.906
	12.149V	4.984V	3.277V	4.996V	179.084				46.5°C	230.41V
CL2	**0.115A**	**20.048A**	**0A**	**0A**	101.407	84.306%	1106	28.5	41.52°C	0.864
	12.164V	4.988V	3.3V	5.004V	120.283				44.81°C	230.42V
CL3	**0.115A**	**0A**	**20.131A**	**0A**	67.403	78.635%	552	<6.0	40.23°C	0.813
	12.161V	5.001V	3.278V	5V	85.714				45.07°C	230.42V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL4	**70.320A**	**0A**	**0A**	**0A**	849.832	91.268%	1494	37.3	45.81°C	0.981
	12.086V	4.987V	3.277V	4.982V	931.139				48.94°C	230.32V

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	**1.220A**	**0.5A**	**0.5A**	**0.2A**	20.009	69.599%	0	<6.0	44.73°C	0.824
	12.176V	5.005V	3.3V	5V	28.75				36.86°C	115.16V
40W	**2.686A**	**0.7A**	**0.7A**	**0.3A**	40.008	80.597%	0	<6.0	46.36°C	0.89
	12.175V	5.004V	3.299V	4.998V	49.639				37.72°C	115.16V
60W	**4.151A**	**0.9A**	**0.901A**	**0.401A**	60.007	84.815%	0	<6.0	46.11°C	0.914
	12.175V	5.003V	3.298V	4.992V	70.752				38.31°C	115.16V
80W	**5.614A**	**1.1A**	**1.101A**	**0.501A**	79.972	87.01%	0	<6.0	47.56°C	0.927
	12.173V	5.003V	3.297V	4.988V	91.913				39.11°C	115.15V

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	**1.220A**	**0.5A**	**0.5A**	**0.2A**	20.011	70.664%	0	<6.0	44.32°C	0.507
	12.177V	5.005V	3.3V	5.001V	28.345				36.65°C	230.42V
40W	**2.686A**	**0.7A**	**0.7A**	**0.3A**	40.008	81.714%	0	<6.0	44.61°C	0.68
	12.176V	5.004V	3.299V	4.998V	48.961				37.32°C	230.42V
60W	**4.151A**	**0.9A**	**0.901A**	**0.401A**	60.007	86.152%	0	<6.0	47.27°C	0.77
	12.175V	5.003V	3.298V	4.993V	69.652				38.29°C	230.41V
80W	**5.614A**	**1.1A**	**1.102A**	**0.502A**	79.98	88.425%	0	<6.0	50.4°C	0.818
	12.175V	5.002V	3.296V	4.987V	90.449				39.08°C	230.43V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	10.99mV	6.94mV	4.73mV	14.83mV	Pass
20% Load	14.89mV	8.11mV	5.54mV	15.54mV	Pass
30% Load	16.79mV	7.60mV	5.85mV	17.93mV	Pass
40% Load	17.33mV	9.79mV	7.98mV	19.26mV	Pass
50% Load	19.08mV	13.72mV	12.51mV	19.97mV	Pass
60% Load	19.90mV	15.51mV	15.82mV	20.33mV	Pass
70% Load	21.02mV	16.07mV	17.29mV	21.96mV	Pass
80% Load	21.83mV	15.45mV	16.28mV	21.45mV	Pass
90% Load	23.00mV	13.06mV	16.43mV	21.70mV	Pass
100% Load	36.19mV	13.82mV	18.16mV	30.55mV	Pass
110% Load	38.67mV	14.10mV	18.81mV	29.91mV	Pass
Crossload1	21.68mV	9.30mV	14.28mV	16.55mV	Pass
Crossload2	10.99mV	6.94mV	4.37mV	11.56mV	Pass
Crossload3	9.62mV	6.38mV	14.14mV	10.75mV	Pass
Crossload4	35.07mV	10.49mV	10.52mV	22.03mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	10.94mV	6.78mV	5.64mV	14.37mV	Pass
20% Load	14.23mV	8.21mV	5.54mV	15.59mV	Pass
30% Load	16.28mV	7.35mV	5.49mV	17.73mV	Pass
40% Load	16.78mV	11.02mV	9.56mV	18.34mV	Pass
50% Load	18.63mV	13.06mV	12.87mV	18.85mV	Pass
60% Load	19.13mV	14.69mV	16.83mV	19.87mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
70% Load	19.84mV	17.60mV	17.19mV	20.02mV	Pass
80% Load	21.98mV	16.37mV	17.65mV	20.38mV	Pass
90% Load	23.05mV	14.03mV	16.94mV	20.18mV	Pass
100% Load	36.77mV	14.29mV	18.51mV	29.50mV	Pass
110% Load	39.08mV	12.85mV	18.67mV	30.55mV	Pass
Crossload1	22.01mV	9.25mV	14.49mV	15.59mV	Pass
Crossload2	10.84mV	6.68mV	4.22mV	11.92mV	Pass
Crossload3	9.31mV	6.58mV	13.88mV	10.90mV	Pass
Crossload4	35.50mV	10.59mV	10.91mV	20.38mV	Pass

The results above are not used in the certification process

Corsair RM850e (ATX v3.1)



Top side



Power specifications label

All data and graphs included in this test report can be used by any individual on the following conditions:
› It should be mentioned that the test results are provided by Cybenetics
› The link to the original test results document should be provided in any case

Cybenetics runs voluntary certification programs for power supplies - ETA for efficiency, LAMBDA for noise and SAFE for safety and correct operation - and for cooling products, with DELTA for chassis soundproofing and PHI for fan airflow and static pressure. THETA rates cooler performance on AMD AM5 and Intel LGA1851 outside ISO 17065 and accreditation scope

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