Corsair RM1000e (ATX v3.0)

Serial Number C04702274

Lab ID CR10002087

Certification ID 252087

Test Result Report ID: 22PS2087A

Certificate Issue Date: Nov 7, 2022

Scheme: ETA-EMI PSU

115V



230V



115V



230V



Scheme: LAMBDA PSU



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	RM1000e (ATX v3.0)
OEM/ODM	HEC
Serial Number	C04702274
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	12-6

Rated Frequency (Hz)	47-63
Rated Power (W)	1000
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 (HA1225H12F-Z)
Semi-Passive Operation	✓
Cybenetics Testing Information	
Lab ID	CR10002087
Date of receipt	Oct 29, 2022
Testing Date	Nov 4, 2022
Report Issued Date	Nov 7, 2022
DUT Notes	CP-9020264
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 20+4 pin (600mm)	1	1	16-20AWG	No
4+4 pin EPS12V (650mm)	2	2	18AWG	No
6+2 pin PCIe (600mm+150mm)	2	4	16-18AWG	No
6+2 pin PCIe (600mm)	2	2	16AWG	No
12+4 pin PCIe (650mm) (600W)	1	1	16-24AWG	No
SATA (500mm+100mm+100mm)	1	3	18AWG	No

SATA (450mm+115mm+115mm+115mm)	1	4	18AWG	No
4 pin Molex (450mm+100mm+100mm+100mm)	1	4	18AWG	No
AC Power Cord (1400mm) - C13 coupler	1	1	14AWG	-

Power Specifications

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	83.3	3	0
	Watts	150		1000	15	0
Total Max. Power (W)		1000				

Parts Description

General Data	-
Manufacturer (OEM)	HEC
PCB Type	Double Sided
Primary Side	-
Transient Filter	4x Y caps, 3x X caps, 2x CM chokes, 1x MOV, 1x Power Integrations CAP200DG (Discharge IC)
Inrush Protection	NTC Thermistor SCK-056 (5 Ohm) & Relay
Bridge Rectifier(s)	2x GBU1506 (800V, 15A @ 100°C)
APFC MOSFETs	2x Great Power GP47S60 (600V, 47A, Rds(on): 0.081Ohm)
APFC Boost Diode	1x CREE C6D10065A (650V, 10A @ 155°C)
Bulk Cap(s)	1x Teapo (400V, 680uF, 2,000h @ 105°C, LS)
Main Switchers	2x GP36S60YERD
APFC Controller	Champion CM6500UN & CM03AX
Resonant Controller	Champion CM6901T6X
Topology	Primary side: APFC, Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	-
+12V MOSFETs	no info
5V & 3.3V	DC-DC Converters: 4x Potens Semiconductor PDD3906 (30V, 51A @ 100°C, Rds(on): 6mOhm) & 4x Excelliance MOS EMB07N03V (20V, 17A @ 100°C, Rds(on): 7mOhm) PWM Controller(s): 2x APEC APW7073

Filtering Capacitors	Electrolytic: 11x Teapo (1-3,000h @ 105°C, SC), 1x Nichicon (4-10,000h @ 105°C, HE) Polymer: 4x Elite, 6x Teapo, 13x no info
Supervisor IC	Weltrend WT7527RT (OCP, OVP, UVP, SCP, PG)
Fan Model	Hong Hua HA1225H12F-Z (120mm, 12V, 0.58A, Rifle Bearing Fan)
5VSB Circuit	-
Rectifier	1x PS1060L SBR (60V, 10A)
Standby PWM Controller	Power Integrations TNY290PG

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 v3.0 Compliance	✓

Performance Summary

115V

Accredited	
Average Efficiency (>1450 load combinations)	89.389%
Average Noise Output (>1450 Load Combinations)	26.80dBA
Average PF (>1450 Load Combinations)	0.982
Efficiency With 10W (≤500W) or 2% (>500W) Load	76.118%
Standby Power Consumption	0.0547W
Non-Accredited	
12V Ripple (Full Load)	24.57mV
5V Ripple (Full Load)	18.40mV
3.3V Ripple (Full Load)	19.00mV
5VSB Ripple (Full Load)	15.63mV

12V Load Regulation	1.01%
5V Load Regulation	0.77%
3.3V Load Regulation	0.54%
5VSB Load Regulation	1.87%
Inrush Current	31.980A

230V

Accredited		
Average Efficiency (>1450 load combinations)		91.312%
Average Noise Output (>1450 Load Combinations)		27.15dBA
Average PF (>1450 Load Combinations)		0.948
Efficiency With 10W (≤500W) or 2% (>500W) Load		76.245%
Standby Power Consumption		0.0930W
Non-Accredited		
12V Ripple (Full Load)		24.26mV
5V Ripple (Full Load)		17.72mV
3.3V Ripple (Full Load)		19.36mV
5VSB Ripple (Full Load)		15.09mV
12V Load Regulation		1.00%
5V Load Regulation		0.83%
3.3V Load Regulation		0.55%
5VSB Load Regulation		1.87%
Inrush Current		65.080A
12V Transient Response (200%)		11.20V
5V Transient Response (200%)		4.841V
3.3V Transient Response (200%)		3.219V
5VSB Transient Response (200%)		4.841V
Hold-Up Time & PWR_OK Signal		18.20ms
AC Loss to PWR_OK Hold Up Time		16.00ms
PWR_OK Inactive to DC Loss Delay		2.20ms
PSU Timings: T1 (20% / 100%)	45.0ms	45.0ms
PSU Timings: T3 (20% / 100%)	121.0ms	121.0ms

OPP (24.51°C / 39.44°C)	121.33%	121.33%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	18.2
AC Loss to PWR_OK Hold Up Time (ms)	16
PWR_OK Inactive to DC Loss Delay (ms)	2.2

Vampire Power

Tables

115V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.15 V	115.14 V	113.85 V	115.17 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:	1.415	1.415	1.340	1.416	1.490	PASS
Mains Voltage THD:	0.13 %	0.11 %	N/A	0.15 %	2.00 %	PASS
Real Power:	0.055 W	0.045 W	N/A	0.065 W	N/A	N/A
Apparent Power:	12.263 W	12.254 W	N/A	12.271 W	N/A	N/A
Power Factor:	0.005	N/A	N/A	N/A	N/A	N/A

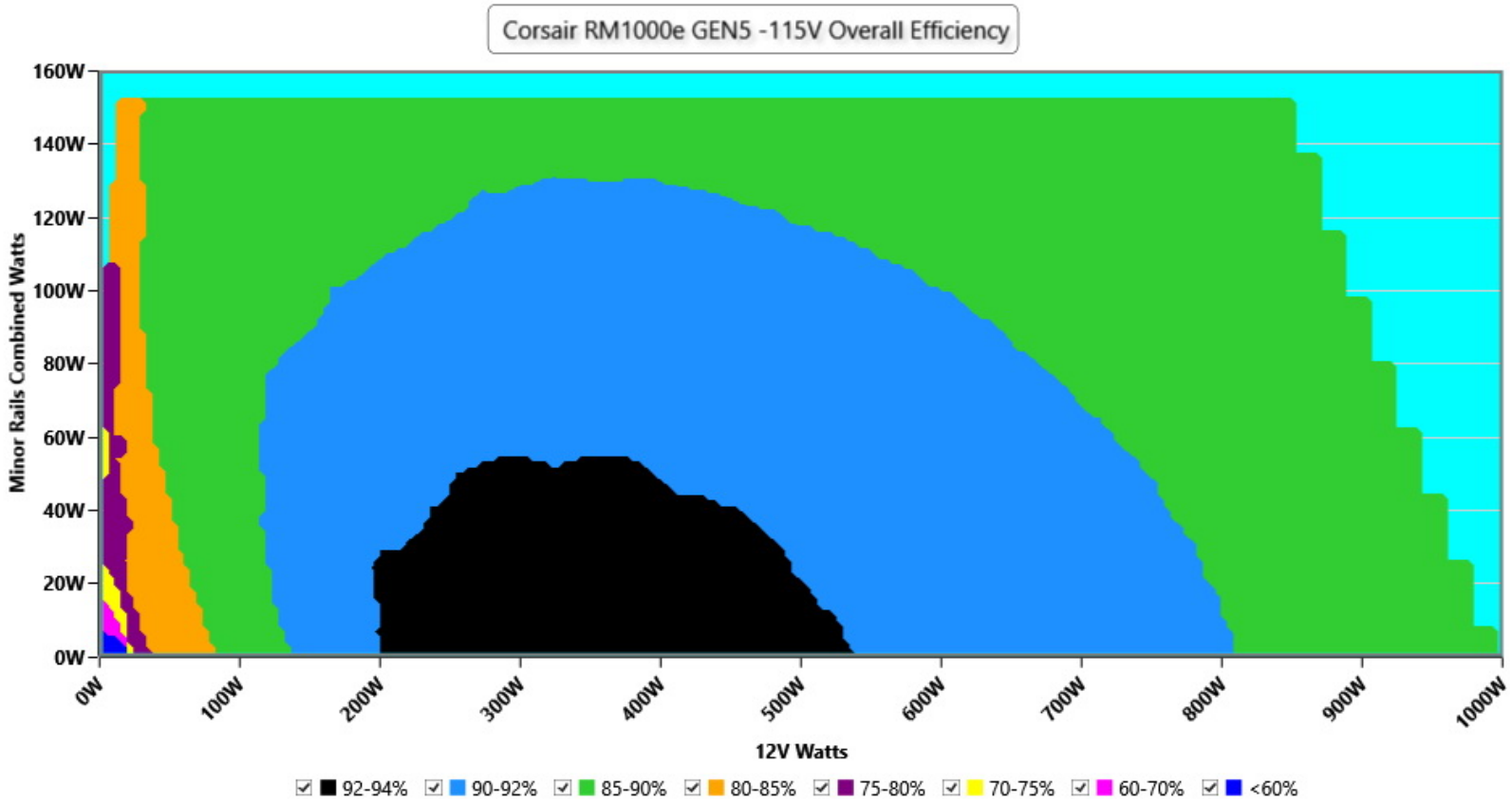
230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.38 V	230.36 V	227.70 V	230.40 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:	0.093 W	0.068 W	N/A	0.117 W	N/A	N/A
Apparent Power:	40.949 W	40.932 W	N/A	40.968 W	N/A	N/A
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

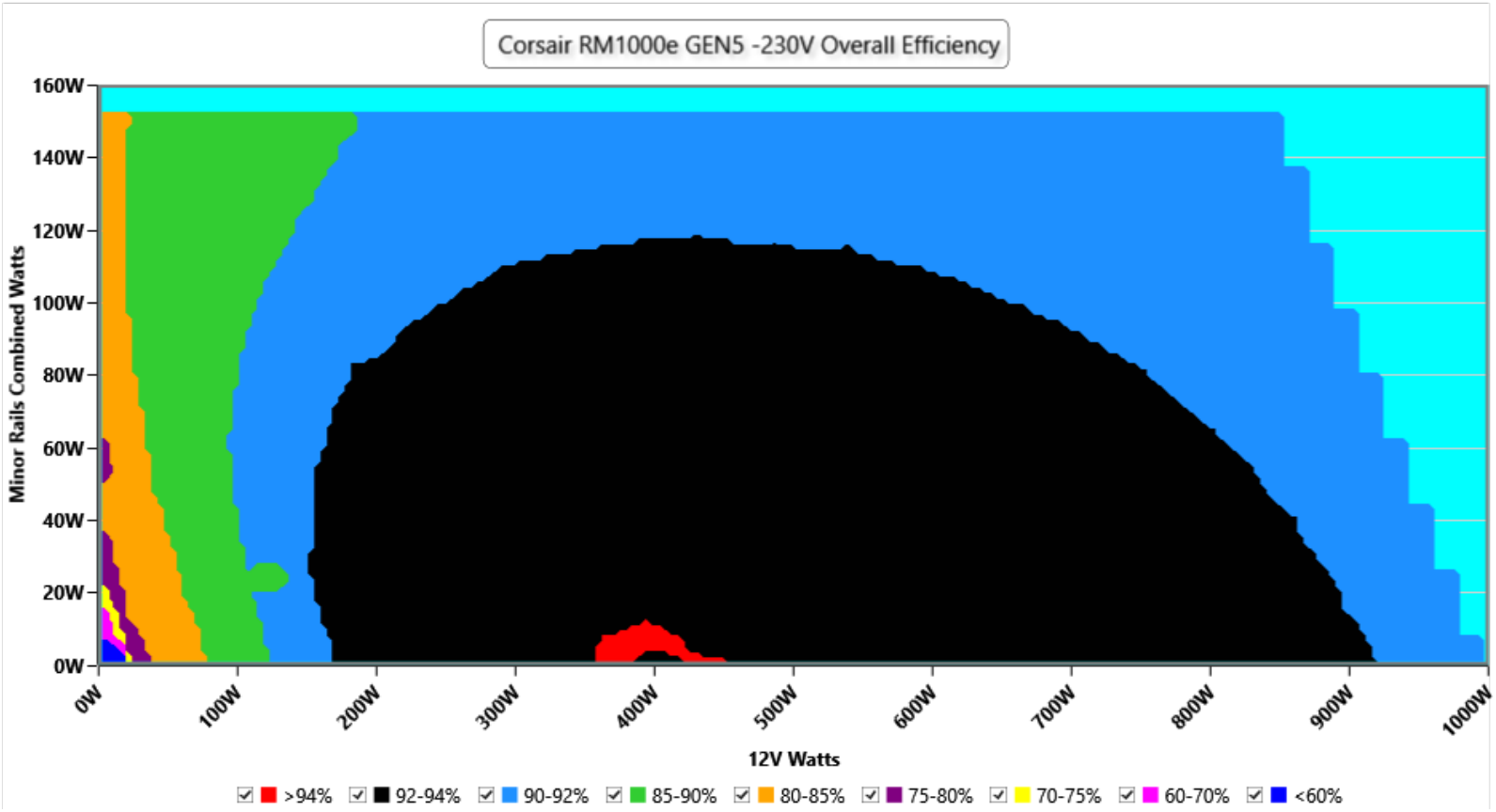
115V



INFO

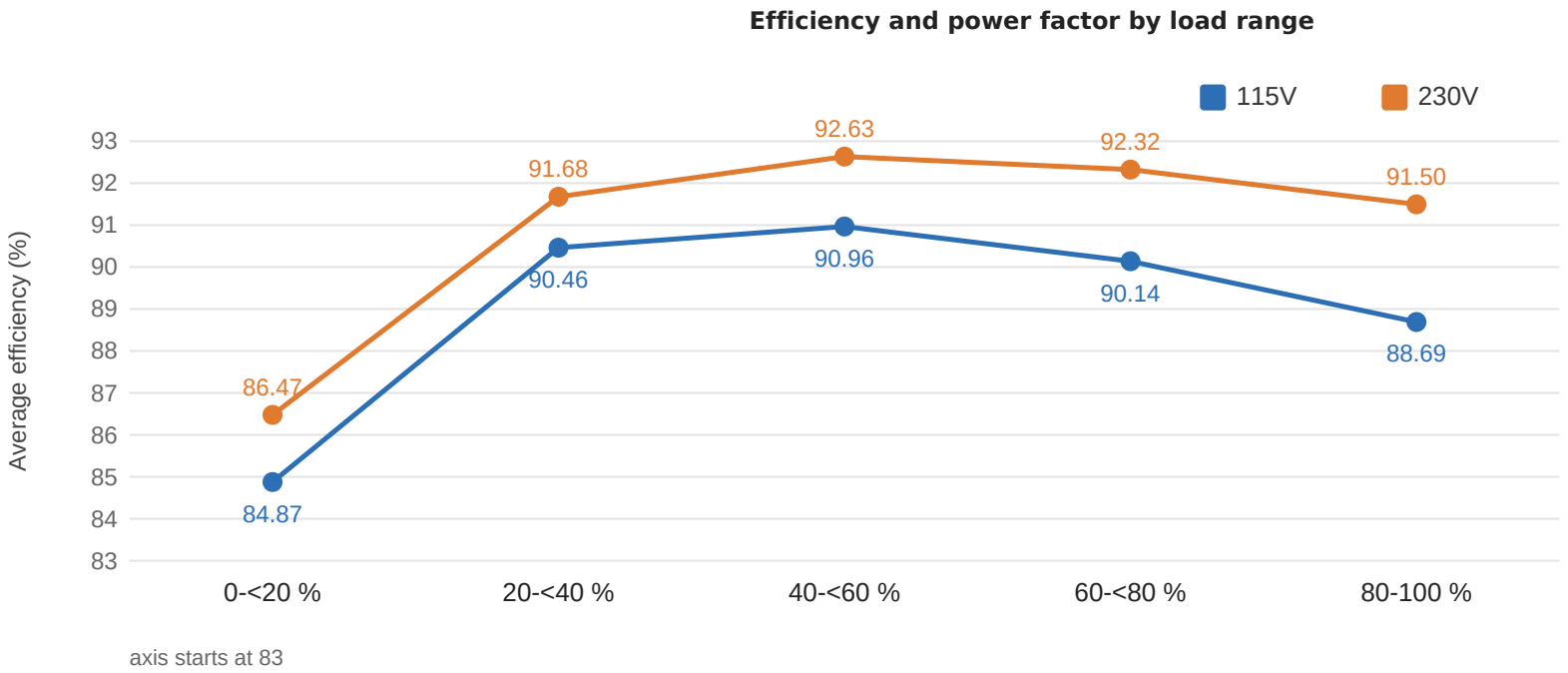
This graph depicts the PSU`s efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

230V

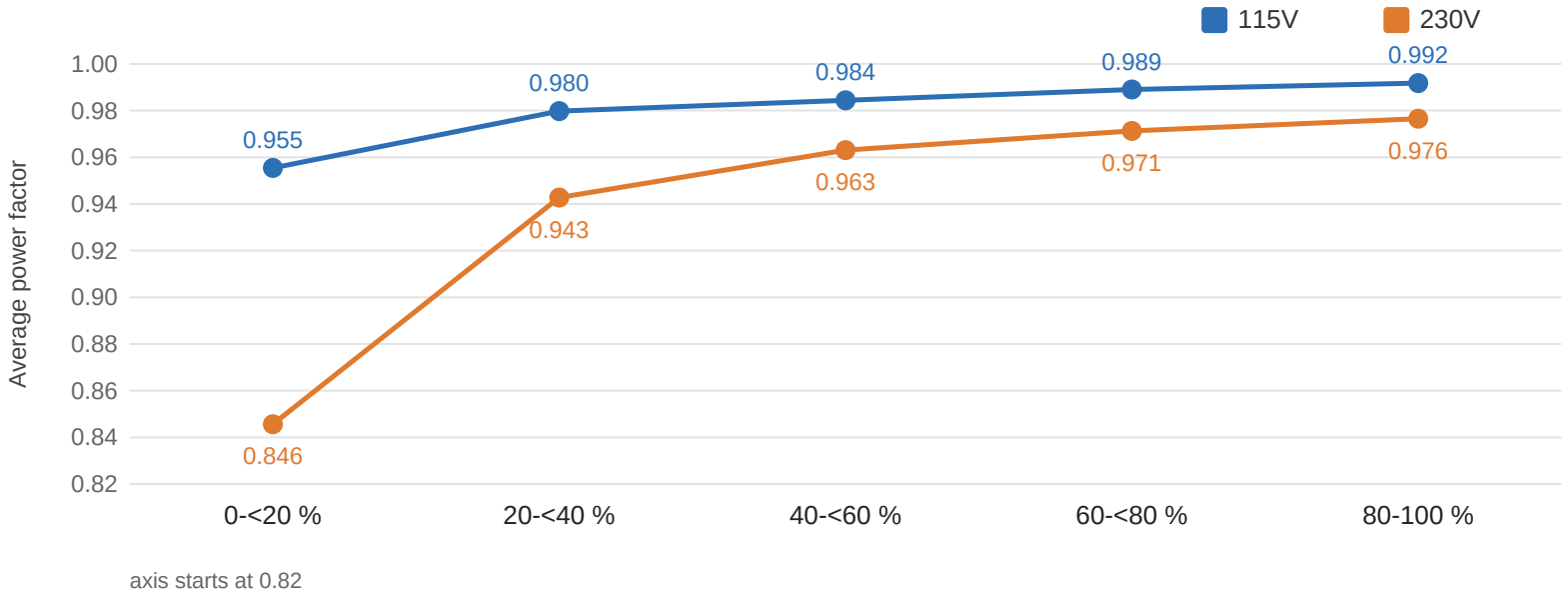


INFO

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 83



axis starts at 0.82

Load range	Points	Efficiency 115V	Efficiency 230V	PF 115V	PF 230V
0-<20 %	205 / 205	84.87%	86.47%	0.955	0.846
20-<40 %	350 / 350	90.46%	91.68%	0.980	0.943
40-<60 %	342 / 342	90.96%	92.63%	0.984	0.963
60-<80 %	342 / 342	90.14%	92.32%	0.989	0.971
80-100 %	351 / 351	88.69%	91.50%	0.992	0.976
70-100 % (High-Load)	519 / 519	89.06%	91.71%	0.991	0.975
All (published average)	1590 / 1590	89.39%	91.31%	0.982	0.948

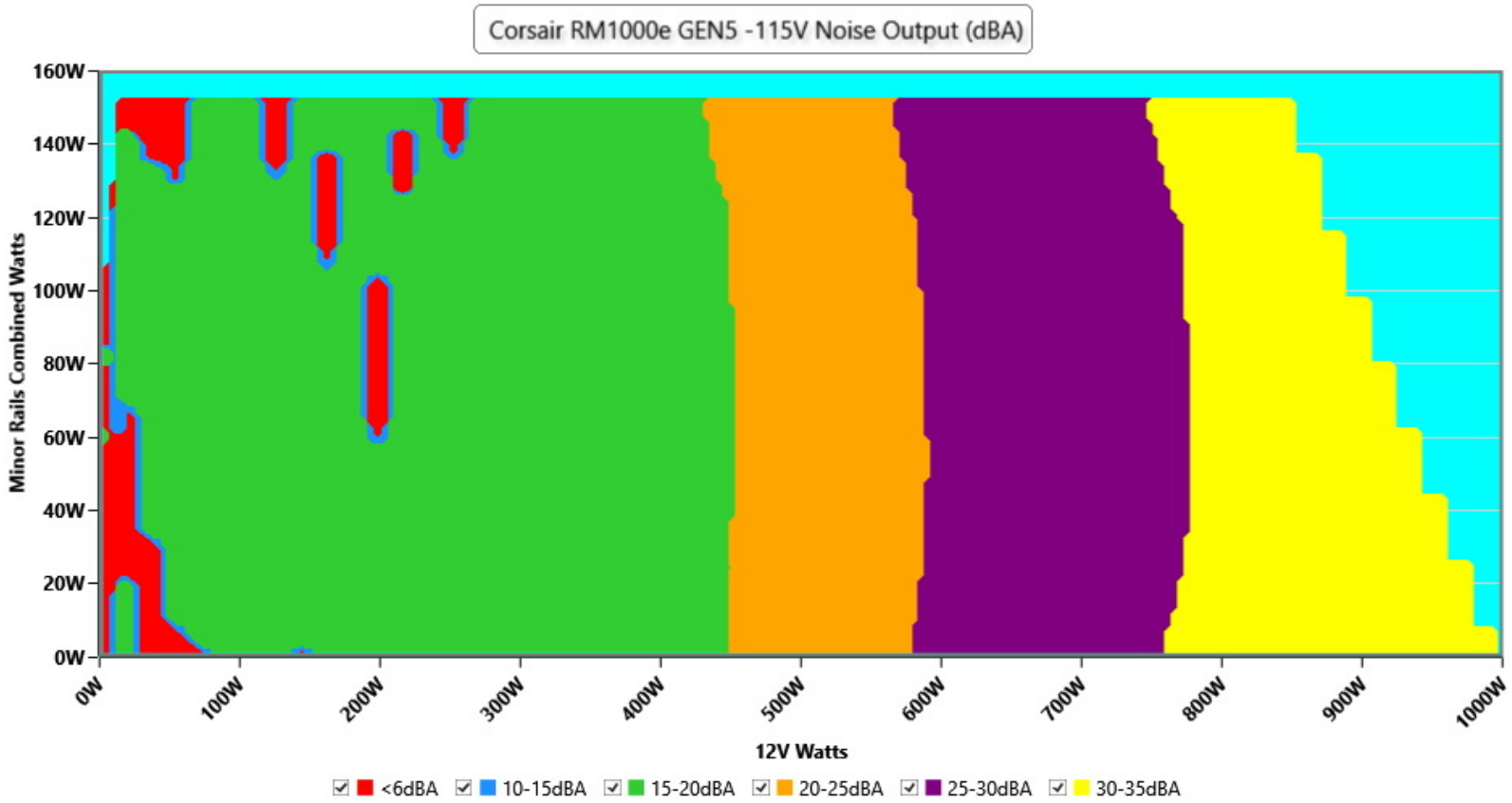
INFO

The average efficiency and power factor in five ranges of load. Calculated from the 1590 (115V) and 1590 (230V) load combinations of the certification sweep, the same data that ETA and LAMBDA use (test 0 excluded). Load is the total DC output as a share of the rated 1000 W. These are plain averages of the valid readings, as for the ETA rating, so the ranges combined give back the published averages.

Informational. Not part of the ETA or LAMBDA rating.

Noise Graph

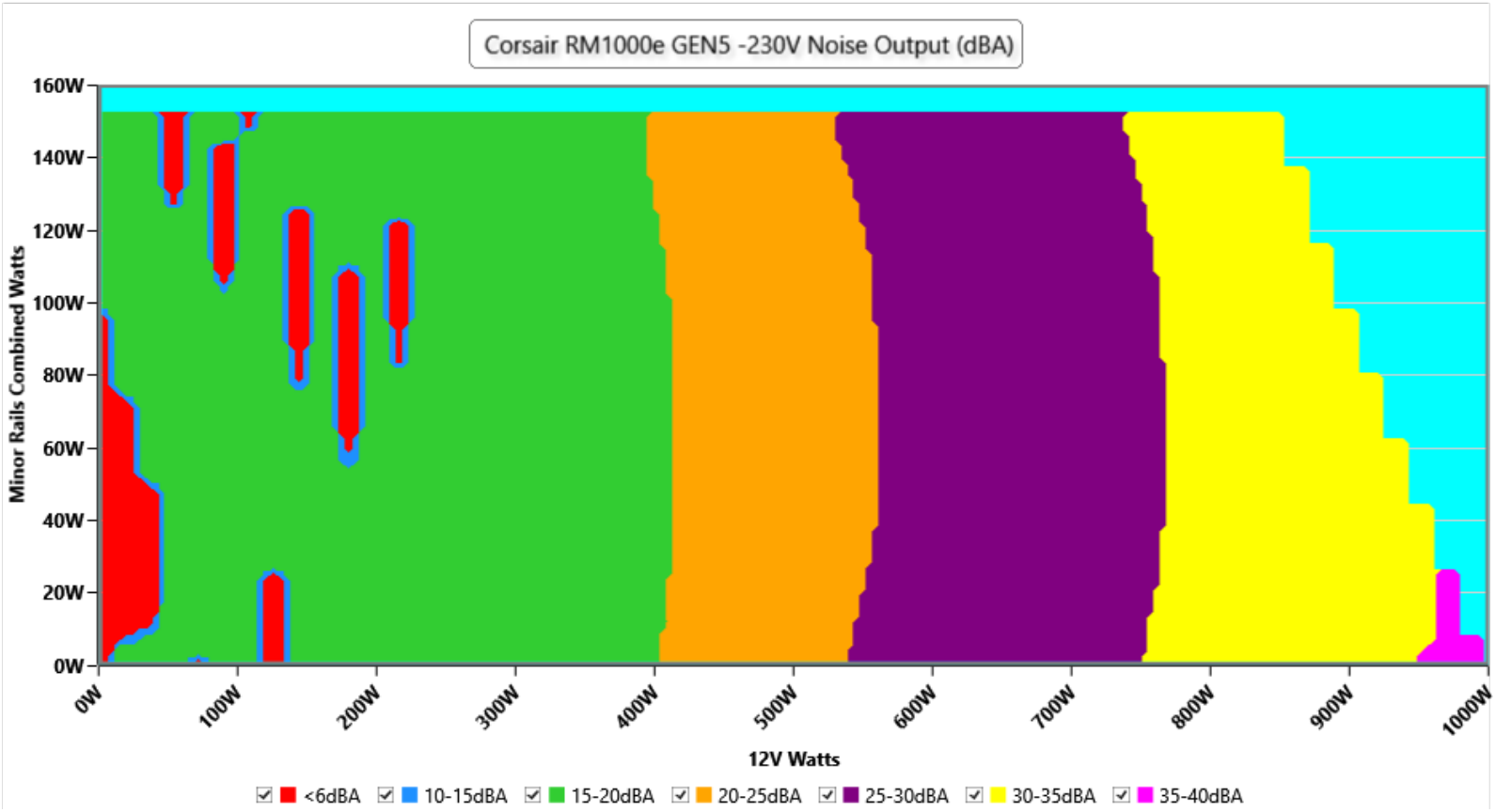
115V



INFO

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

230V



INFO

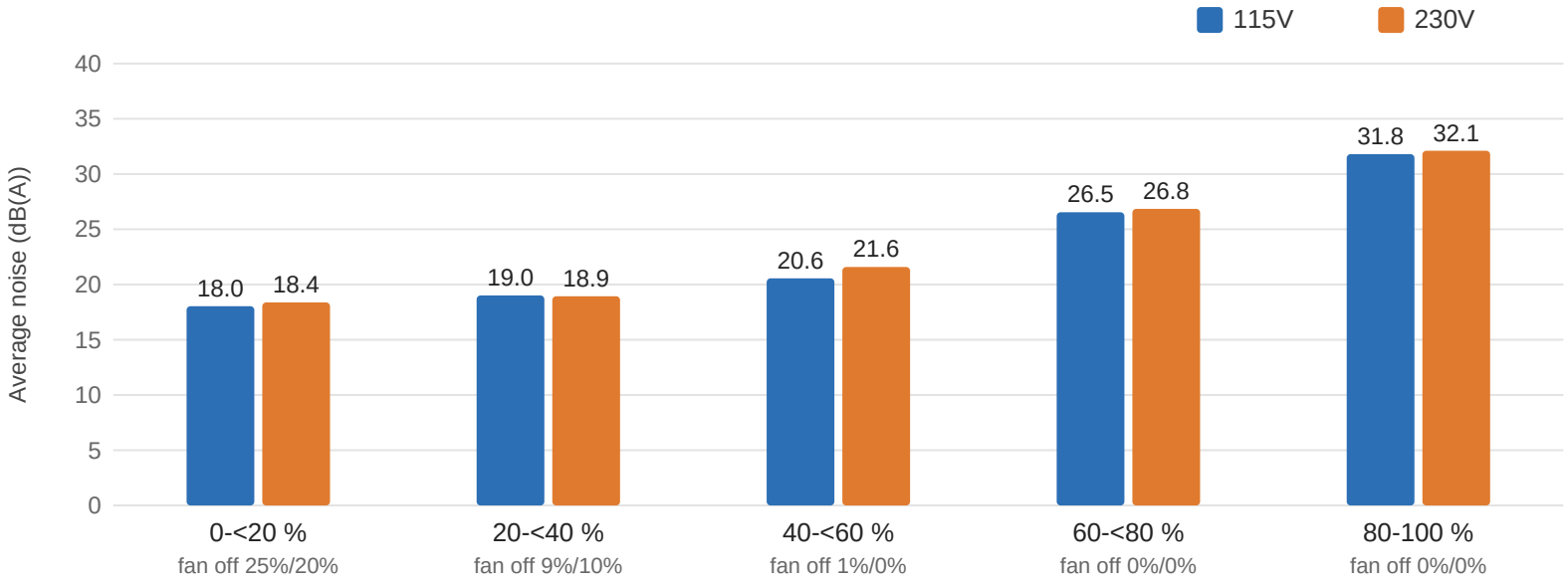
The PSU`s noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

Noise by load range

High-Load Index (70-100 % load)

Noise **30.9 dB(A)** at 115V and **31.1 dB(A)** at 230V · loudest point 35.2 dB(A)

Efficiency 89.06% / 91.71% · power factor 0.991 / 0.975 (115V / 230V)



Load range	Noise 115V avg (loudest)	Noise 230V avg (loudest)	Fan off 115V / 230V
0-<20 %	18.0 (19.5)	18.4 (19.5)	25% / 20%
20-<40 %	19.0 (19.5)	18.9 (19.5)	9% / 10%
40-<60 %	20.6 (25.7)	21.6 (25.7)	1% / 0%
60-<80 %	26.5 (31.2)	26.8 (31.2)	0% / 0%
80-100 %	31.8 (34.4)	32.1 (35.2)	0% / 0%
70-100 % (High-Load)	30.9 (34.4)	31.1 (35.2)	0% / 0%
All (published average)	26.8 (34.4)	27.2 (35.2)	5% / 5%

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 1590 (115V) and 1590 (230V) load combinations of the certification sweep, the same data that ETA and LAMBDA use (test 0 excluded). Load is the total DC output as a share of the rated 1000 W. Noise is averaged on the energy scale, as for LAMBDA, so the ranges combined give back the published average noise. Each load combination is held for about five seconds; the stabilized readings at fixed loads are under "Noise under high ambient temperature".

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%	876 RPM · 20.6 dB(A) · 35.5 °C	876 RPM · 20.6 dB(A) · 35.5 °C	**+0.0 dB(A)**
20%	871 RPM · 20.4 dB(A) · 35.9 °C	871 RPM · 20.4 dB(A) · 35.9 °C	**+0.0 dB(A)**
50%	918 RPM · 22.1 dB(A) · 36.9 °C	918 RPM · 22.1 dB(A) · 36.9 °C	**+0.0 dB(A)**
100%	1583 RPM · 37.6 dB(A) · 39.8 °C	1583 RPM · 37.6 dB(A) · 39.8 °C	**+0.0 dB(A)**

230V

Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	881 RPM · 20.8 dB(A) · 36.3 °C	881 RPM · 20.8 dB(A) · 36.3 °C	**+0.0 dB(A)**
20%	873 RPM · 20.5 dB(A) · 36.6 °C	873 RPM · 20.5 dB(A) · 36.6 °C	**+0.0 dB(A)**
50%	931 RPM · 22.5 dB(A) · 38.6 °C	931 RPM · 22.5 dB(A) · 38.6 °C	**+0.0 dB(A)**
100%	1621 RPM · 38.6 dB(A) · 40.0 °C	1621 RPM · 38.6 dB(A) · 40.0 °C	**+0.0 dB(A)**

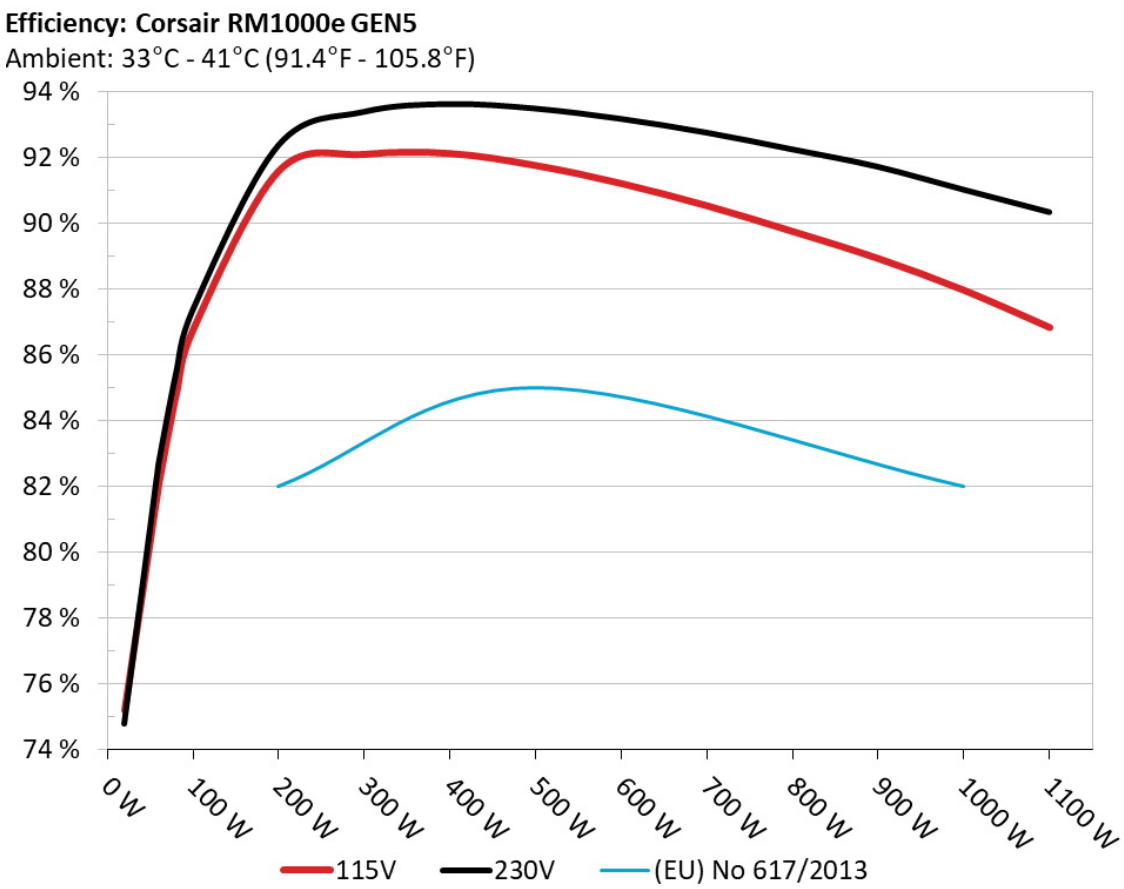
INFO

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.

Indicative Performance

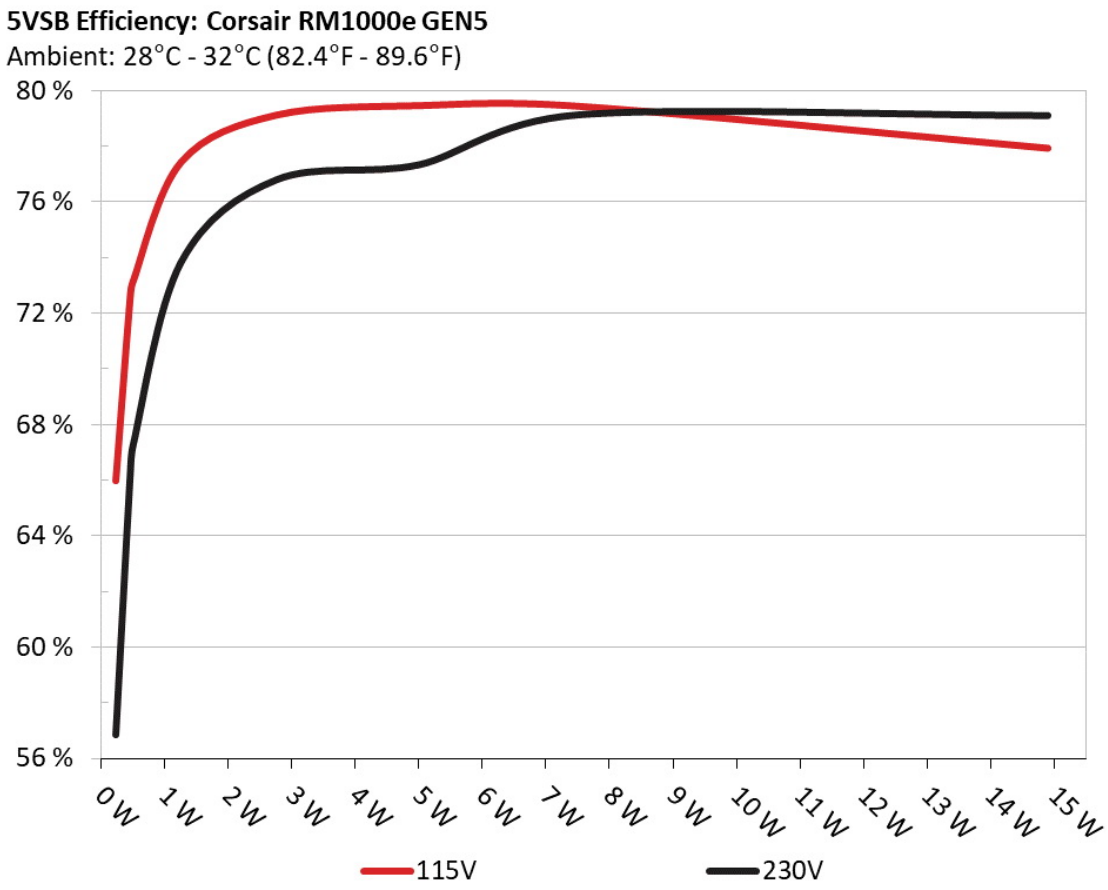
Efficiency under high ambient temperature



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	0.226W	65.98%	0.028
	5.024V	0.343W		115.16V
2	0.09A	0.452W	72.558%	0.05
	5.022V	0.623W		115.16V
3	0.55A	2.758W	79.101%	0.234
	5.014V	3.487W		115.16V
4	1A	5.006W	79.438%	0.338
	5.005V	6.302W		115.16V
5	1.5A	7.496W	79.42%	0.396
	4.997V	9.439W		115.15V
6	3A	14.908W	77.912%	0.471
	4.969V	19.135W		115.15V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.226W	56.83%	0.01
	5.024V	0.398W		230.38V
2	0.09A	0.452W	66.153%	0.017
	5.023V	0.684W		230.38V
3	0.55A	2.758W	76.777%	0.085
	5.014V	3.593W		230.38V
4	1A	5.006W	77.315%	0.145
	5.005V	6.475W		230.38V
5	1.5A	7.496W	79.107%	0.198
	4.997V	9.478W		230.38V
6	3A	14.908W	79.083%	0.306
	4.969V	18.852W		230.38V

Supplementary Tests (For Reference)

Typical Load Tests

115V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
10%	6.440A	2.008A	1.989A	0.999A	100.002	86.785%	876	20.6	35.51°C	0.965
	12.176V	4.981V	3.318V	5.005V	115.226				39.76°C	115.13V
20%	13.930A	3.013A	2.984A	1.201A	199.947	91.613%	871	20.4	35.88°C	0.976
	12.135V	4.979V	3.317V	4.996V	218.25				40.41°C	115.1V
30%	21.769A	3.52A	3.484A	1.403A	300	92.113%	874	20.5	36.55°C	0.98
	12.125V	4.973V	3.315V	4.989V	325.687				41.4°C	115.07V
40%	29.592A	4.026A	3.984A	1.606A	399.696	92.141%	874	20.5	36.74°C	0.982
	12.115V	4.969V	3.313V	4.981V	433.787				41.76°C	115.05V
50%	37.084A	5.034A	4.982A	1.81A	499.463	91.776%	918	22.1	36.85°C	0.984
	12.106V	4.967V	3.312V	4.973V	544.222				42.31°C	115.02V
60%	44.656A	6.046A	5.983A	2A	599.906	91.226%	995	24.2	37.33°C	0.987
	12.096V	4.963V	3.31V	4.965V	657.609				43.35°C	114.99V
70%	52.169A	7.058A	6.983A	2.219A	699.717	90.55%	1115	27.5	37.85°C	0.989
	12.088V	4.96V	3.308V	4.957V	772.746				45.41°C	114.97V
80%	59.765A	8.002A	7.984A	2.323A	799.413	89.771%	1194	29.8	38.02°C	0.991
	12.078V	4.956V	3.306V	4.951V	890.506				46.26°C	114.94V
90%	67.700A	8.582A	8.471A	2.427A	899.547	88.947%	1316	32.8	39.21°C	0.992
	12.069V	4.952V	3.305V	4.945V	1011.328				48.41°C	114.91V
100%	75.453A	9.095A	8.99A	3.043A	999.572	87.981%	1583	37.6	39.75°C	0.993
	12.059V	4.948V	3.303V	4.929V	1136.127				49.81°C	114.88V
110%	83.157A	10.115A	10.086A	3.046A	1100.181	86.844%	1952	42.9	40.64°C	0.994
	12.048V	4.943V	3.301V	4.925V	1266.864				51.49°C	114.86V
CL1	0.115A	18.126A	18.019A	0A	151.299	82.862%	1091	26.8	36.75°C	0.976
	12.142V	4.982V	3.308V	5.007V	182.59				42.28°C	115.11V

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	20.023A	0A	0A	101.395	81.4%	938	22.7	37.11°C	0.966
	12.184V	4.994V	3.312V	5.025V	124.567				43.26°C	115.12V
CL3	0.114A	0A	19.894A	0A	67.384	75.131%	878	20.7	38.25°C	0.947
	12.173V	4.98V	3.317V	5.009V	89.689				45.26°C	115.13V
CL4	82.895A	0A	0A	0A	1000.093	88.832%	1346	33.1	39.51°C	0.993
	12.064V	4.95V	3.31V	4.995V	1125.822				47.48°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%	6.439A	2.007A	1.989A	0.999A	100.001	87.363%	881	20.8	36.32°C	0.834
	12.176V	4.982V	3.318V	5.005V	114.468				40.53°C	230.38V
20%	13.929A	3.014A	2.986A	1.201A	199.954	92.375%	873	20.5	36.6°C	0.918
	12.137V	4.978V	3.316V	4.996V	216.456				41.13°C	230.37V
30%	21.770A	3.519A	3.485A	1.403A	300.005	93.394%	876	20.6	37.23°C	0.944
	12.125V	4.973V	3.314V	4.989V	321.226				42.09°C	230.36V
40%	29.590A	4.025A	3.985A	1.606A	399.704	93.631%	880	20.8	38.21°C	0.956
	12.115V	4.97V	3.313V	4.981V	426.888				43.22°C	230.35V
50%	37.083A	5.035A	4.984A	1.81A	499.425	93.494%	931	22.5	38.58°C	0.963
	12.106V	4.966V	3.311V	4.973V	534.177				44.06°C	230.34V
60%	44.654A	6.048A	5.984A	2A	599.918	93.18%	1032	25.2	38.71°C	0.968
	12.097V	4.962V	3.309V	4.965V	643.821				44.79°C	230.33V
70%	52.170A	7.06A	6.986A	2.219A	699.721	92.761%	1133	28.0	39.14°C	0.971
	12.088V	4.958V	3.307V	4.957V	754.328				46.18°C	230.32V
80%	59.766A	8.002A	7.987A	2.323A	799.404	92.255%	1215	30.4	39.56°C	0.974
	12.078V	4.955V	3.305V	4.951V	866.509				47.72°C	230.3V
90%	67.707A	8.585A	8.475A	2.427A	899.551	91.725%	1322	32.8	39.7°C	0.977
	12.068V	4.95V	3.304V	4.945V	980.713				49.01°C	230.29V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	75.462A	9.098A	8.994A	3.044A	999.607	91.027%	1621	38.6	39.96°C	0.978
	12.058V	4.946V	3.302V	4.929V	1098.136				49.99°C	230.28V
110%	83.167A	10.118A	10.089A	3.047A	1100.22	90.342%	2020	44.2	40.35°C	0.979
	12.047V	4.942V	3.3V	4.924V	1217.838				51.21°C	230.26V
CL1	0.115A	18.126A	18.02A	0A	151.277	83.911%	872	20.4	38.88°C	0.9
	12.133V	4.981V	3.307V	5.007V	180.277				44.39°C	230.34V
CL2	0.114A	20.014A	0A	0A	101.389	81.981%	885	21.0	39.59°C	0.847
	12.181V	4.996V	3.311V	5.025V	123.675				45.63°C	230.35V
CL3	0.114A	0A	19.891A	0A	67.387	75.495%	908	21.8	40.68°C	0.785
	12.177V	4.985V	3.318V	5.009V	89.259				47.92°C	230.36V
CL4	82.903A	0A	0A	0A	1000.027	91.922%	1301	32.6	40.85°C	0.978
	12.062V	4.952V	3.312V	4.994V	1087.91				49.78°C	230.25V

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	0.502A	0.497A	0.199A	20.002	75.194%	0	<6.0	36.14°C	0.822
	12.174V	4.981V	3.321V	5.021V	26.602				33.03°C	115.16V
40W	2.684A	0.702A	0.696A	0.299A	40	82.129%	0	<6.0	37.49°C	0.907
	12.176V	4.986V	3.321V	5.019V	48.705				34.15°C	115.16V
60W	4.148A	0.903A	0.894A	0.399A	59.998	81.387%	876	20.6	34.55°C	0.947
	12.181V	4.985V	3.32V	5.018V	73.721				38.32°C	115.14V
80W	5.610A	1.104A	1.093A	0.499A	79.952	84.794%	876	20.6	35.05°C	0.948
	12.178V	4.982V	3.32V	5.015V	94.294				39.03°C	115.13V

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	0.501A	0.497A	0.199A	20	74.772%	0	<6.0	36.27°C	0.427
	12.174V	4.986V	3.319V	5.021V	26.749				33.17°C	230.39V
40W	2.685A	0.702A	0.696A	0.299A	39.998	82.682%	0	<6.0	37.38°C	0.61
	12.175V	4.987V	3.32V	5.019V	48.371				34.06°C	230.38V
60W	4.149A	0.903A	0.895A	0.399A	59.996	81.987%	877	20.6	34.7°C	0.733
	12.178V	4.983V	3.318V	5.018V	73.177				38.24°C	230.38V
80W	5.610A	1.104A	1.094A	0.499A	79.949	85.363%	879	20.7	35.42°C	0.796
	12.179V	4.982V	3.318V	5.016V	93.686				39.23°C	230.37V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	11.13mV	9.61mV	7.83mV	7.04mV	Pass
20% Load	16.51mV	9.97mV	8.29mV	9.89mV	Pass
30% Load	13.65mV	10.84mV	9.67mV	8.97mV	Pass
40% Load	12.72mV	11.45mV	8.90mV	8.51mV	Pass
50% Load	11.59mV	12.43mV	9.42mV	9.02mV	Pass
60% Load	13.74mV	13.40mV	10.64mV	10.20mV	Pass
70% Load	14.91mV	14.68mV	13.05mV	11.78mV	Pass
80% Load	14.71mV	15.09mV	16.79mV	11.83mV	Pass
90% Load	15.58mV	16.16mV	16.84mV	12.64mV	Pass
100% Load	24.57mV	18.40mV	19.00mV	15.63mV	Pass
110% Load	25.73mV	19.87mV	19.77mV	17.11mV	Pass
Crossload1	27.28mV	17.87mV	26.66mV	14.48mV	Pass
Crossload2	13.28mV	13.70mV	11.72mV	9.48mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	11.95mV	12.38mV	20.26mV	9.28mV	Pass
Crossload4	23.87mV	15.18mV	12.99mV	12.00mV	Pass

The results above are not used in the certification process

230V

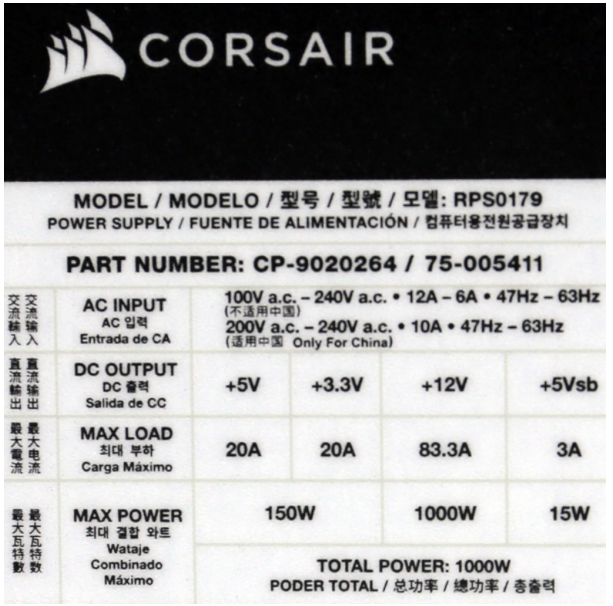
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	11.90mV	10.43mV	7.62mV	6.98mV	Pass
20% Load	16.36mV	10.58mV	8.50mV	10.35mV	Pass
30% Load	13.65mV	10.79mV	8.60mV	8.56mV	Pass
40% Load	12.33mV	11.66mV	10.03mV	8.46mV	Pass
50% Load	13.08mV	13.25mV	10.13mV	9.18mV	Pass
60% Load	12.36mV	13.75mV	11.41mV	10.25mV	Pass
70% Load	14.00mV	14.42mV	12.23mV	11.01mV	Pass
80% Load	15.22mV	15.03mV	16.94mV	12.03mV	Pass
90% Load	15.42mV	16.11mV	16.84mV	13.05mV	Pass
100% Load	24.26mV	17.72mV	19.36mV	15.09mV	Pass
110% Load	24.60mV	18.61mV	19.66mV	15.97mV	Pass
Crossload1	26.54mV	17.21mV	24.98mV	14.01mV	Pass
Crossload2	15.22mV	13.55mV	11.87mV	9.79mV	Pass
Crossload3	11.55mV	11.97mV	19.35mV	9.84mV	Pass
Crossload4	23.38mV	14.10mV	11.68mV	11.30mV	Pass

The results above are not used in the certification process

Corsair RM1000e (ATX v3.0)



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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