Corsair CX550 (ATXv3.1)

Serial Number 4654

Lab ID CR55003298

Certification ID 263298

Test Result Report ID: 26PS3298A

Certificate Issue Date: May 28, 2026

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	CX550 (ATXv3.1)
OEM/ODM	HEC
Serial Number	4654
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240

Rated Current (Arms)	5-10
Rated Frequency (Hz)	47-63
Rated Power (W)	550
Operating Temperature (Continuous Full Load) (°C)	0 - 40
Type	ATX12V
Cable Design	Fixed cables
Warranty	5 years
Cybenetics Measurements	
Dimensions (W x H x D)	150 x 85 x 125mm
Weight	1.58kg (3.48 lb)
Cooling	120mm Fluid Dynamic Bearing Fan (HA1225H12F-Z)
Semi-Passive Operation	✗
Cybenetics Testing Information	
Lab ID	CR55003298
Date of receipt	May 6, 2026
Testing Date	May 28, 2026
Report Issued Date	May 28, 2026
Engineer Name	Ioannis Kalyviotis
Authorized By the Laboratory Technical Manager	Aristeidis Bitziopoulos
Signature	

Cables and Connectors
(Non-accredited measurements)

`Captive Cables`				
Description	**Cable Count**	**Connector Count (Total)**	**Gauge**	Cable Type
ATX connector 24 pin (610mm)	1	1	18-20AWG	Tinned Copper
4+4 pin EPS12V (530mm)	1	1	18AWG	Tinned Copper
6+2 pin PCIe (520mm+100mm)	1	2	18AWG	Tinned Copper
SATA (400mm+100mm+100mm)	1	3	18AWG	Tinned Copper
4-pin Molex (420mm+100mm)	1	2	18AWG	Tinned Copper

Captive Cables				
Modular Cables				
AC Power Cord (1400mm) - C13 coupler	1	1	18AWG	-

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	45.8	3	0.3
	Watts	100		550	15	3.6
Total Max. Power (W)		550				

Parts Description

General Data	
Manufacturer (OEM)	HEC
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV, 1x Power IntegrationsCAP200DG (X Capacitor Discharge IC)
Inrush Protection	NTC Thermistor NTC3D-15 (3Ohm @ 25°C)
Bridge Rectifier(s)	MCC GBU10K (800V, 10A @ 100°C)
APFC MOSFETs	2x PY 15N50TFS
APFC Boost Diode	Hestia Power H3S065A004 (650V, 14A @ 25°C)
Bulk Cap(s)	Teapo (400V, 270uF, 2,000h @ 105°C, LG)

Main Switchers	2x CRMicro CS13N50F A9R (500V, 13A @ 25°C, Rds(on): 0.5Ohm)
PFC/LLC Combo Controller	MPS HR1280
Topology	Primary side: APFC, Half-Bridge & LLC Resonant Converter Secondary side: [12V] Synchronous Rectification & [Minor Rails] DC-DC converters
Secondary Side	
+12V MOSFETs	4x Jiangsu Changjing Electronics Technology CJAC2R5SN04C (40V, 130A @ 25°C, Rds(on): 2.5mOhm)
SR Controller	MPS MP6924B
5V & 3.3V	DC-DC Converters: 2x Potens PDC39F2BX (30V, 120A @ 25°C, Rds(on): 2.95mOhm) 2x Potens PDC3906Z (30V, 60A @ 25°C, Rds(on): 6mOhm) PWM Controller(s): 2x ANPEC APW7164
Filtering Capacitors	 Electrolytic: Nippon Chemi-Con (2,000-5,000h @ 105°C, KZE) 13x Teapo (1,000-3,000h @ 105°C, SC) Polymer: 5x Teapo (FG)
Supervisor IC	IN1T70312-SDG
Fan Controller	1x 2SB1424 PNP transistor
Fan Model	Hong Hua HA1225H12F-Z (120mm, 12V, 0.58A, Fluid Dynamic Bearing Fan)
5VSB Circuit	
Rectifier	PS1060L (60V, 10A)
Standby PWM Controller	Grenergy GR9877BU

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)	87.132%
Average Noise Output (>1450 Load Combinations)	33.50dBA
Average PF (>1450 Load Combinations)	0.993
Efficiency With 10W (≤500W) or 2% (>500W) Load	64.114%
Standby Power Consumption	0.0512W
Non-Accredited	
12V Ripple (Full Load)	96.82mV
5V Ripple (Full Load)	22.67mV
3.3V Ripple (Full Load)	23.68mV
5VSB Ripple (Full Load)	24.47mV
12V Load Regulation	0.77%
5V Load Regulation	2.16%
3.3V Load Regulation	2.90%
5VSB Load Regulation	1.04%
Inrush Current	39.690A

230V

Accredited	
Average Efficiency (>1450 load combinations)	89.096%
Average Noise Output (>1450 Load Combinations)	33.48dBA
Average PF (>1450 Load Combinations)	0.964
Efficiency With 10W (≤500W) or 2% (>500W) Load	64.653%
Standby Power Consumption	0.0858W
Non-Accredited	
12V Ripple (Full Load)	103.27mV
5V Ripple (Full Load)	22.15mV
3.3V Ripple (Full Load)	23.89mV

5VSB Ripple (Full Load)		24.31mV
12V Load Regulation		0.80%
5V Load Regulation		2.18%
3.3V Load Regulation		2.93%
5VSB Load Regulation		1.06%
Inrush Current		77.820A
12V Transient Response (150%)		11.68V
5V Transient Response (150%)		4.933V
3.3V Transient Response (150%)		3.221V
5VSB Transient Response (150%)		4.997V
Hold-Up Time & PWR_OK Signal		14.80ms
AC Loss to PWR_OK Hold Up Time		11.90ms
PWR_OK Inactive to DC Loss Delay		2.90ms
PSU Timings: T1 (20% / 100%)	82.0ms	81.0ms
PSU Timings: T3 (20% / 100%)	126.0ms	127.0ms
12V OCP (30.8°C / 41.1°C)	57.00A (124.45%), 11.932V *High Ripple (144.77mV)	56.40A (123.14%), 11.928V *High Ripple (151.21mV)
5V OCP (30.8°C / 41.1°C)	25.7A (128.50%), 4.947V	25.2A (126.00%), 4.947V
3.3V OCP (30.8°C / 41.1°C)	26.3A (131.50%), 3.289V	25.9A (129.50%), 3.289V
5VSB OCP (30.8°C / 41.1°C)	4.1A (136.67%), 4.981V	4.1A (136.67%), 4.983V
OPP (30.19°C / 40.84°C)	123.02%	119.47%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	14.8
AC Loss to PWR_OK Hold Up Time (ms)	11.9
PWR_OK Inactive to DC Loss Delay (ms)	2.9

Tables

115V

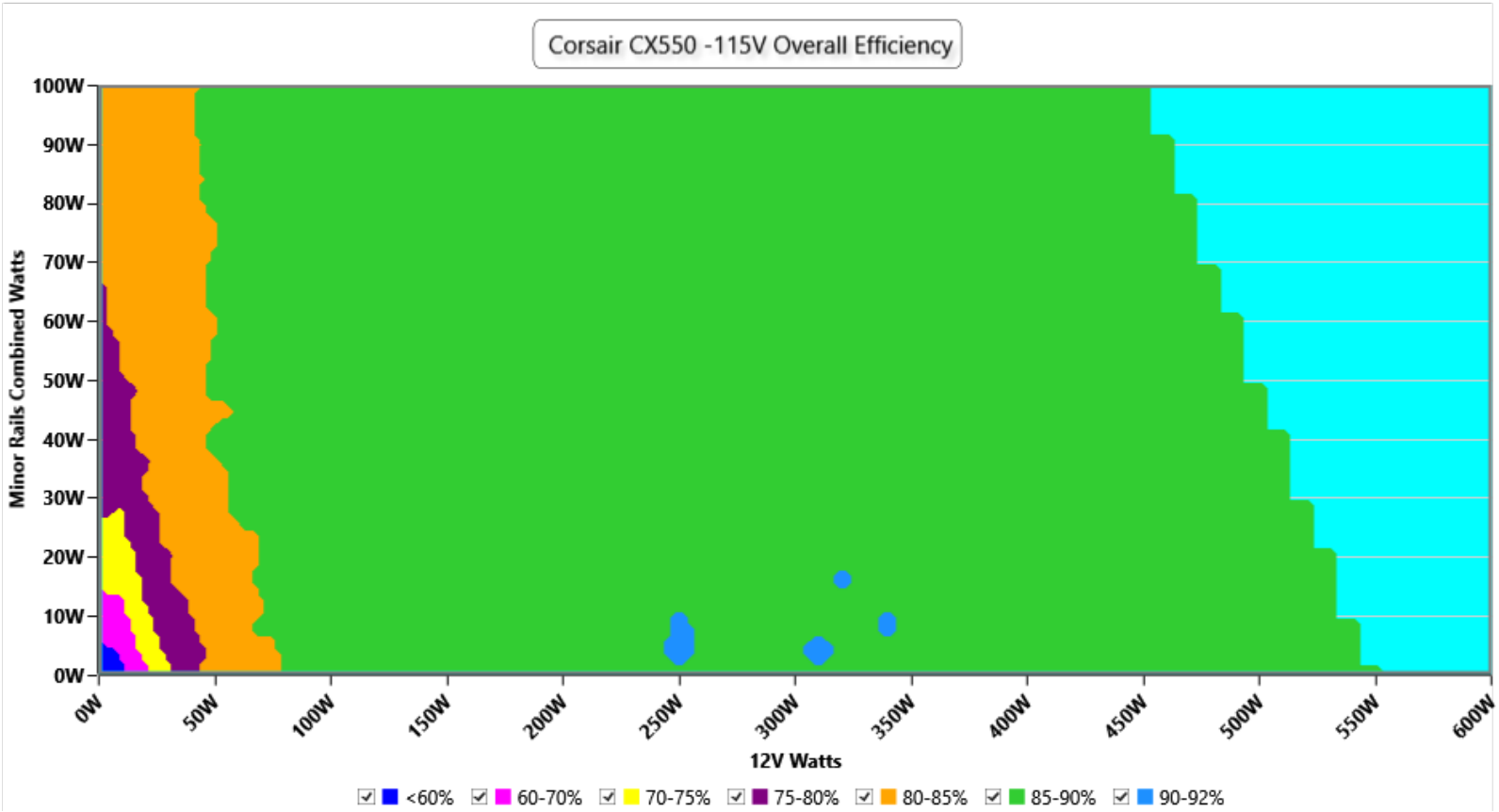
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	114.99 V	114.96 V	113.85 V	115.00 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.94 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.416	1.490	PASS
Mains Voltage THD:	0.13 %	0.10 %	N/A	0.17 %	2.00 %	PASS
Real Power:	0.051 W	0.027 W	N/A	0.076 W	N/A	N/A
Apparent Power:	7.588 W	7.565 W	N/A	7.613 W	N/A	N/A
Power Factor:	0.008	N/A	N/A	N/A	N/A	N/A

230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	229.99 V	229.95 V	227.70 V	229.99 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:	0.086 W	0.041 W	N/A	0.134 W	N/A	N/A
Apparent Power:	24.251 W	24.209 W	N/A	24.289 W	N/A	N/A
Power Factor:	0.002	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

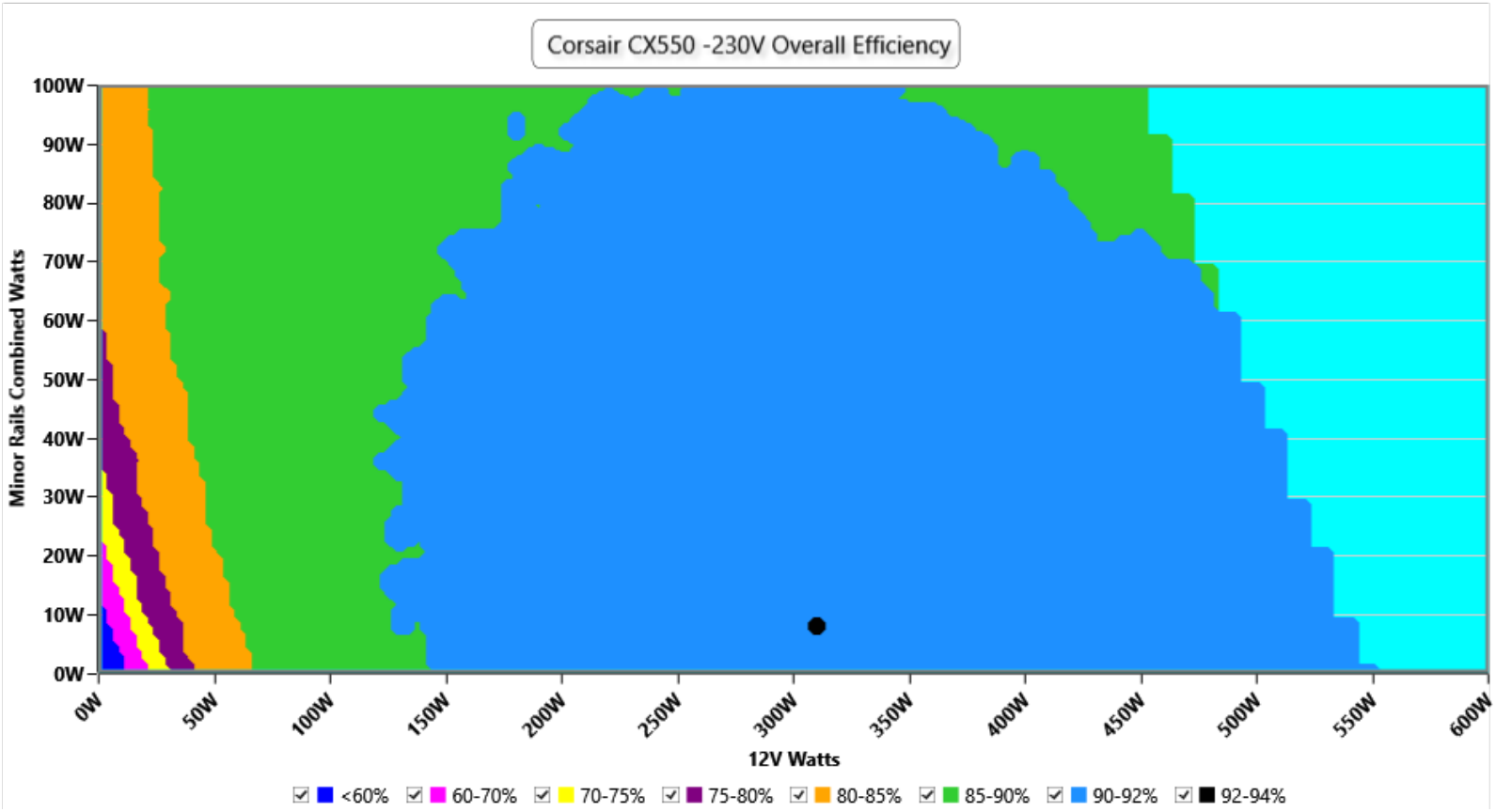
115V



INFO

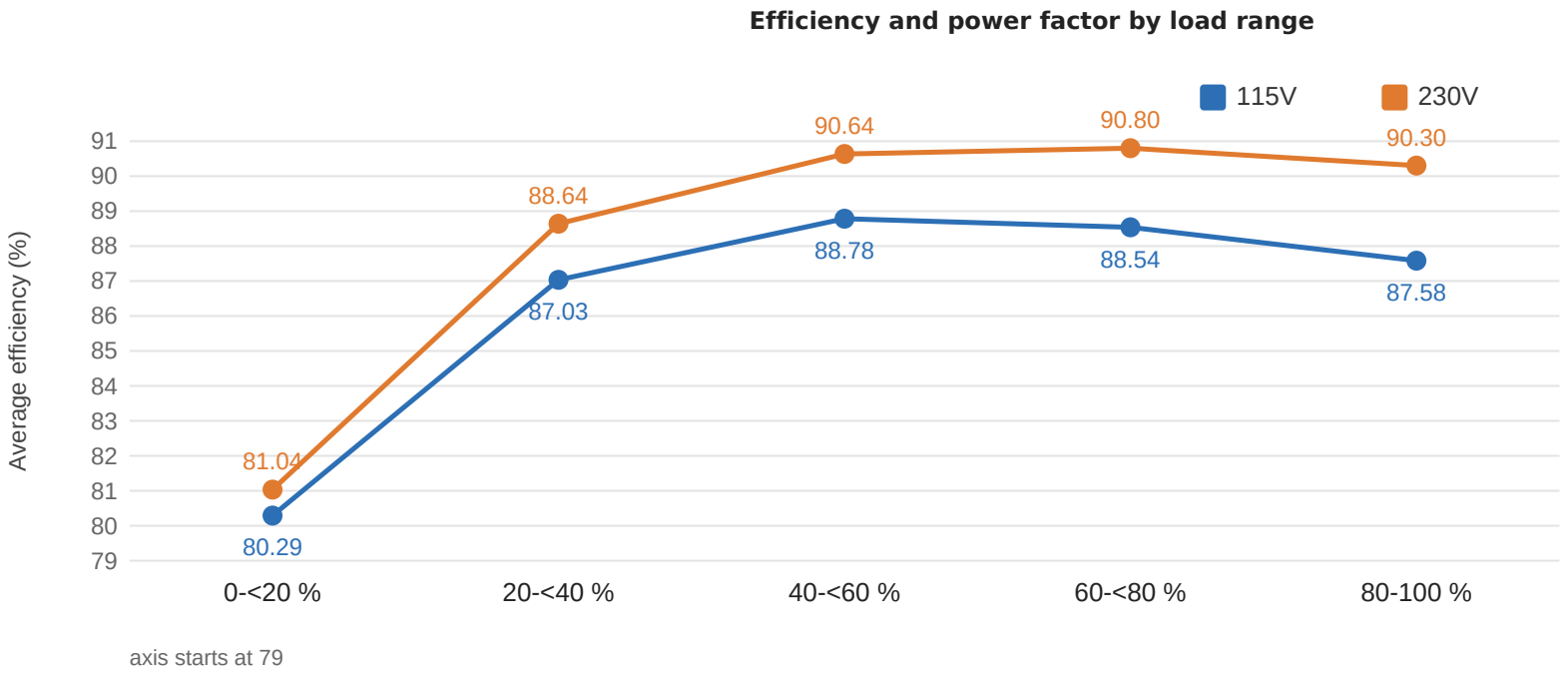
This graph depicts the PSU`s efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

230V

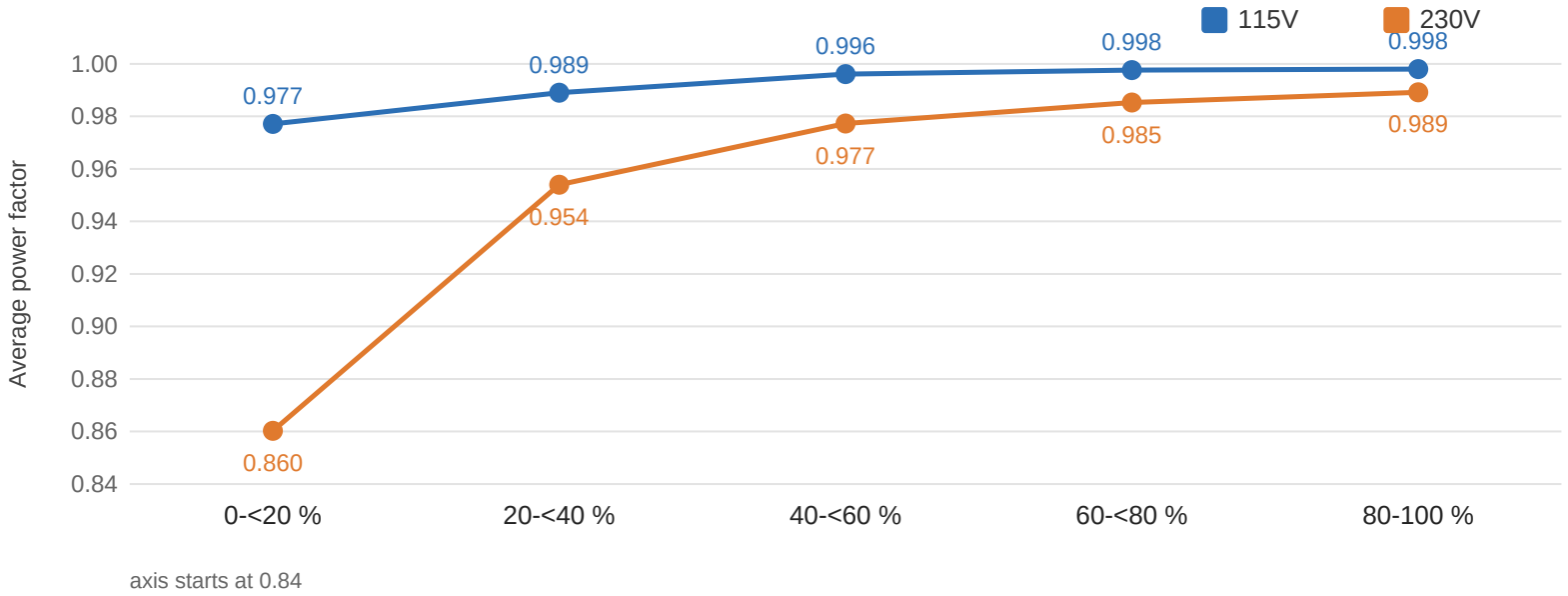


INFO

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 79



axis starts at 0.84

Load range	Points	Efficiency 115V	Efficiency 230V	PF 115V	PF 230V
0-<20 %	171 / 171	80.29%	81.04%	0.977	0.860
20-<40 %	341 / 341	87.03%	88.64%	0.989	0.954
40-<60 %	341 / 341	88.78%	90.64%	0.996	0.977
60-<80 %	341 / 341	88.54%	90.80%	0.998	0.985
80-100 %	354 / 354	87.58%	90.30%	0.998	0.989
70-100 % (High-Load)	521 / 521	87.84%	90.44%	0.998	0.988
All (published average)	1548 / 1548	87.13%	89.10%	0.993	0.964

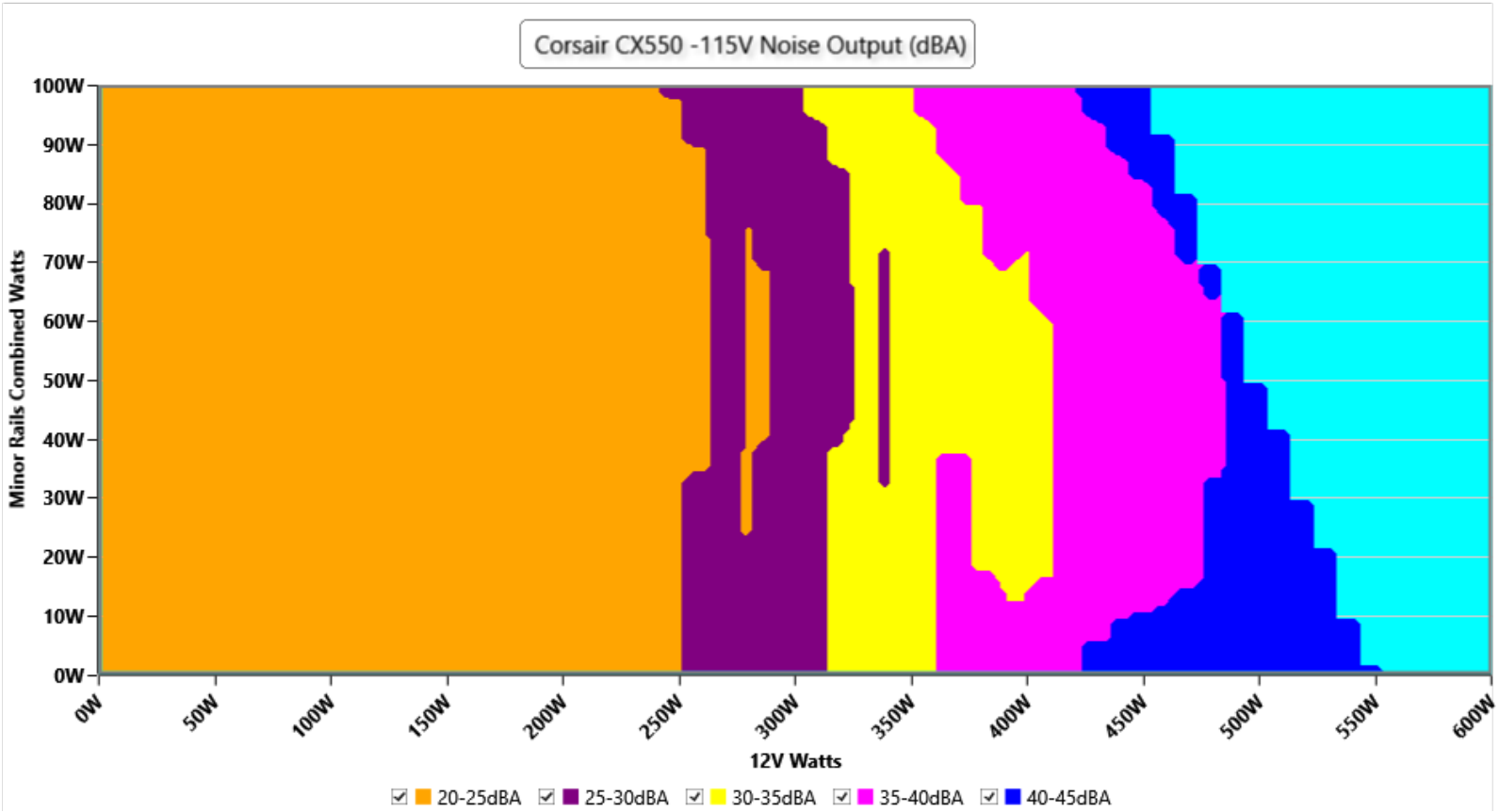
INFO

The average efficiency and power factor in five ranges of load. Calculated from the 1548 (115V) and 1548 (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 550 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

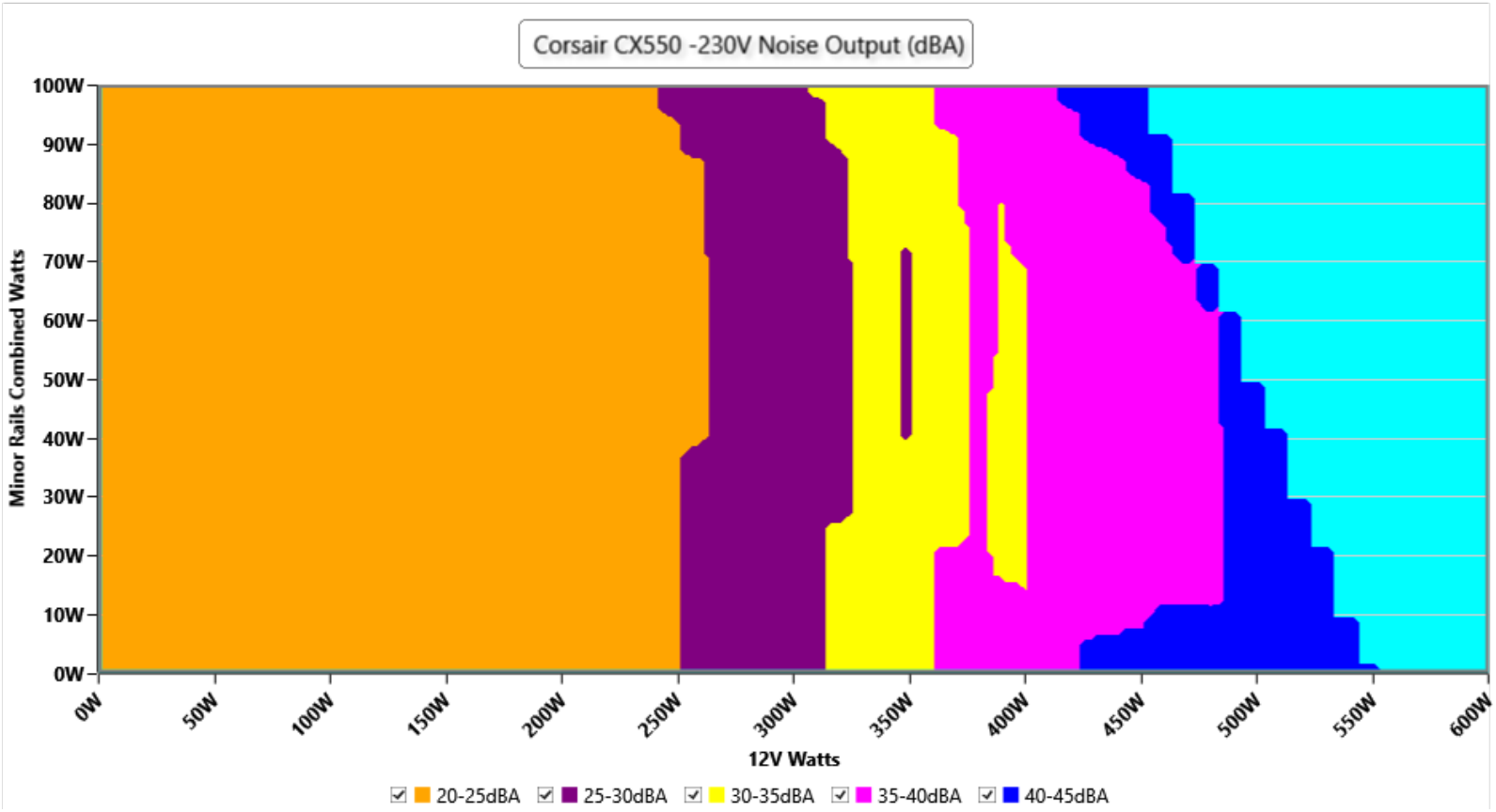
115V



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

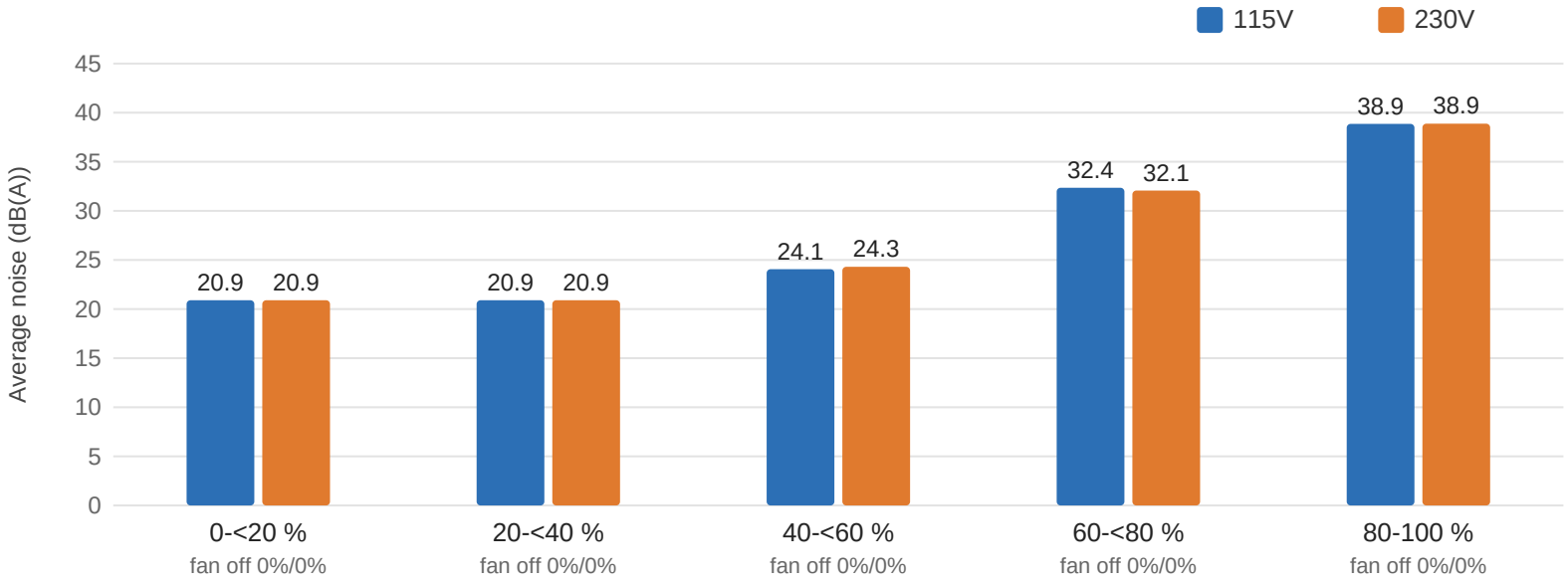
The PSU`s noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

Noise by load range

High-Load Index (70-100 % load)

Noise **37.8 dB(A)** at 115V and **37.8 dB(A)** at 230V · loudest point 41.7 dB(A)

Efficiency 87.84% / 90.44% · power factor 0.998 / 0.988 (115V / 230V)



Load range	Noise 115V avg (loudest)	Noise 230V avg (loudest)	Fan off 115V / 230V
0-<20 %	20.9 (20.9)	20.9 (20.9)	0% / 0%
20-<40 %	20.9 (20.9)	20.9 (20.9)	0% / 0%
40-<60 %	24.1 (31.7)	24.3 (31.7)	0% / 0%
60-<80 %	32.4 (41.0)	32.1 (41.0)	0% / 0%
80-100 %	38.9 (41.7)	38.9 (41.7)	0% / 0%
70-100 % (High-Load)	37.8 (41.7)	37.8 (41.7)	0% / 0%
All (published average)	33.5 (41.7)	33.5 (41.7)	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 1548 (115V) and 1548 (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 550 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%	734 RPM · 20.7 dB(A) · 30.2 °C	762 RPM · 20.9 dB(A) · 40.4 °C	**+0.2 dB(A)**
20%	737 RPM · 20.8 dB(A) · 30.7 °C	760 RPM · 20.9 dB(A) · 40.8 °C	**+0.1 dB(A)**
50%	738 RPM · 20.8 dB(A) · 30.4 °C	1051 RPM · 29.5 dB(A) · 42.4 °C	**+8.7 dB(A)**
100%	1673 RPM · 42.2 dB(A) · 30.0 °C	2103 RPM · 48.7 dB(A) · 45.4 °C	**+6.5 dB(A)**

230V

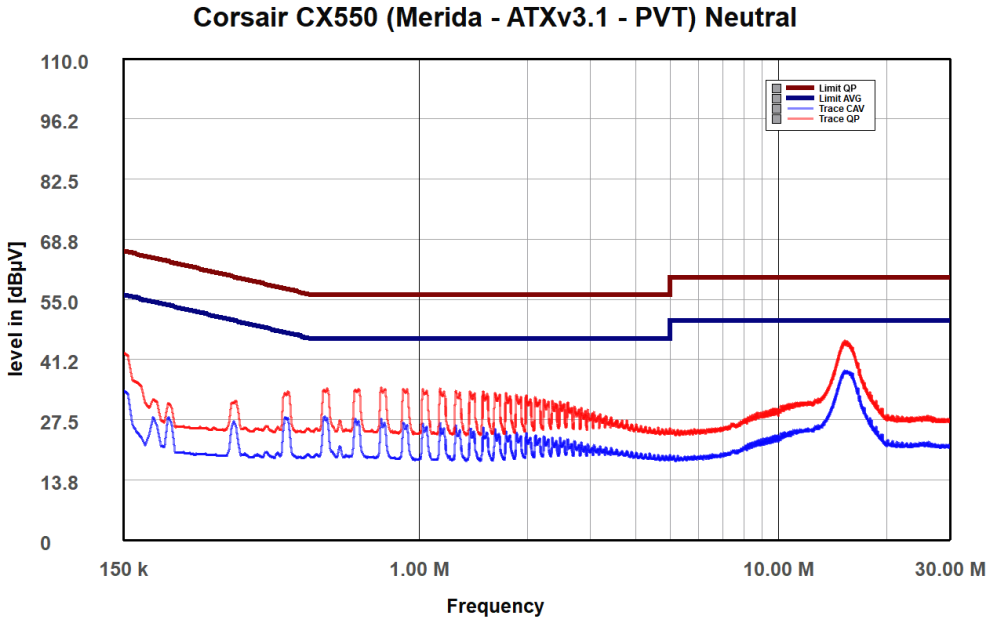
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	730 RPM · 20.5 dB(A) · 30.1 °C	763 RPM · 20.8 dB(A) · 40.2 °C	**+0.3 dB(A)**
20%	731 RPM · 20.6 dB(A) · 30.4 °C	764 RPM · 20.8 dB(A) · 40.8 °C	**+0.2 dB(A)**
50%	735 RPM · 20.7 dB(A) · 30.1 °C	1048 RPM · 29.5 dB(A) · 42.3 °C	**+8.8 dB(A)**
100%	1747 RPM · 43.4 dB(A) · 30.3 °C	2110 RPM · 48.7 dB(A) · 45.7 °C	**+5.3 dB(A)**

INFO

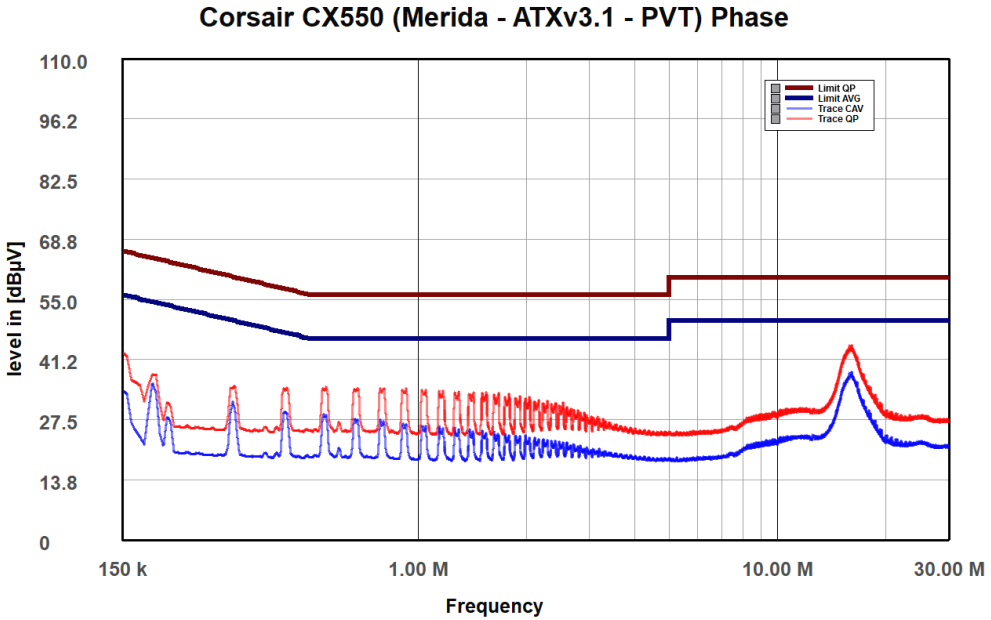
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative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



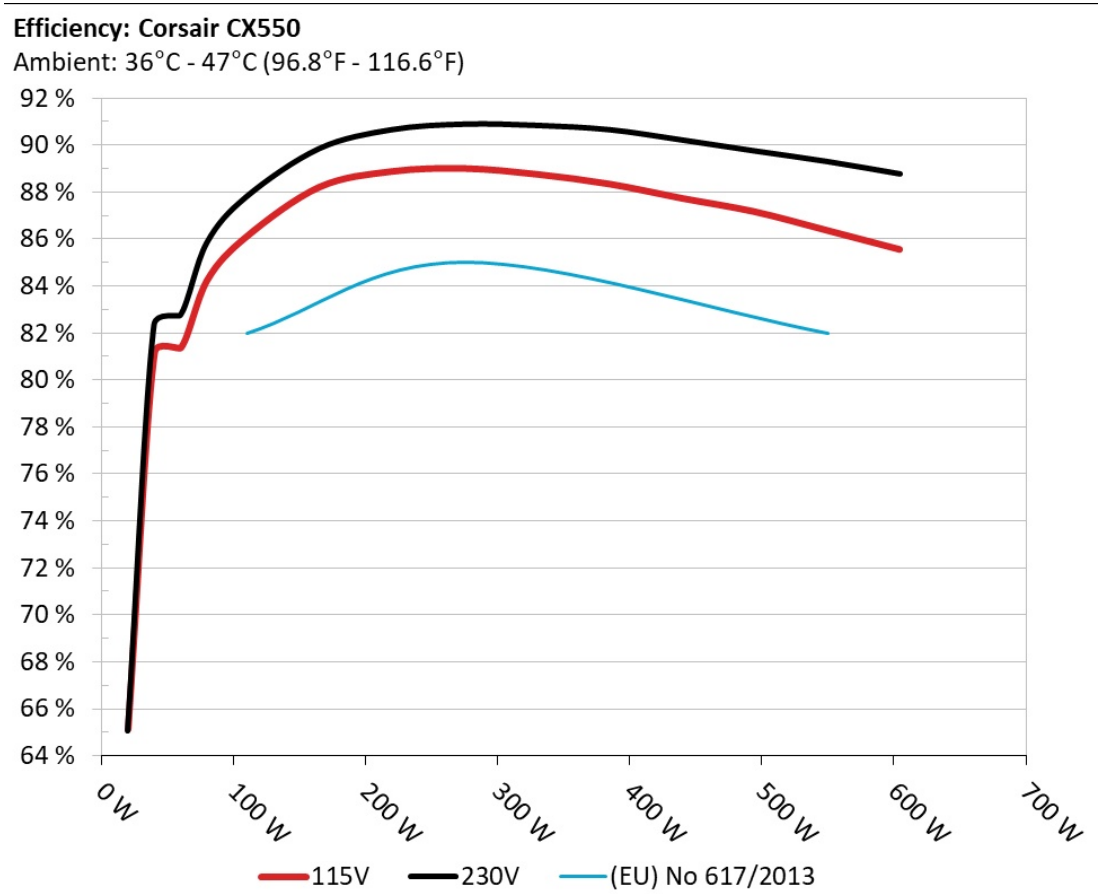
NEUTRAL



PHASE

Indicative Performance

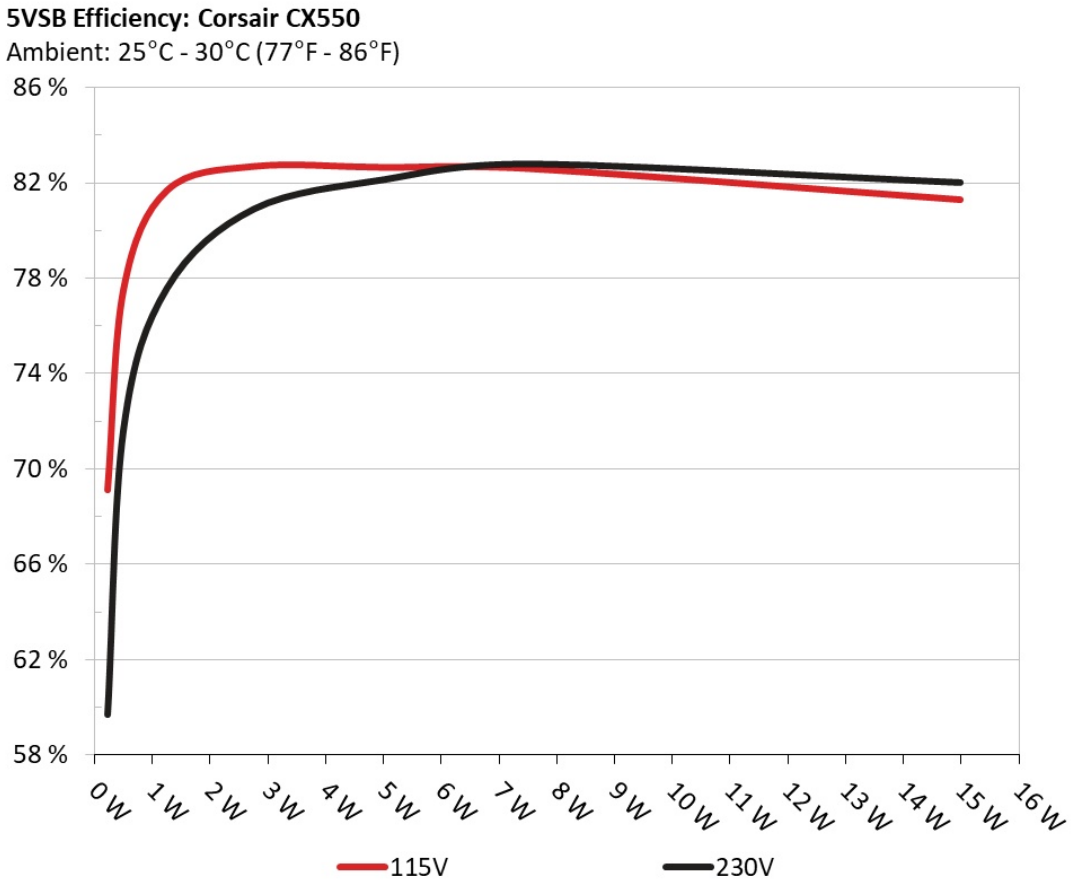
Efficiency under high ambient temperature



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**	0.226W	69.118%	0.044
	5.029V	0.328W		115.08V
2	**0.09A**	0.453W	77.109%	0.078
	5.027V	0.587W		115.08V
3	**0.55A**	2.761W	82.718%	0.294
	5.02V	3.338W		115.08V
4	**1A**	5.015W	82.672%	0.363
	5.015V	6.067W		115.07V
5	**1.5A**	7.515W	82.622%	0.402
	5.009V	9.096W		115.07V
6	**3.001A**	14.98W	81.318%	0.452
	4.992V	18.421W		115.07V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.226W	59.684%	0.016
	5.024V	0.379W		230.32V
2	**0.09A**	0.452W	70.264%	0.027
	5.024V	0.645W		230.29V
3	**0.55A**	2.76W	80.902%	0.131
	5.018V	3.412W		230.25V
4	**1A**	5.014W	82.139%	0.206
	5.014V	6.104W		230.24V
5	**1.5A**	7.513W	82.79%	0.259
	5.008V	9.075W		230.24V
6	**3A**	14.977W	82.013%	0.343
	4.992V	18.262W		230.24V

Protection Features

OCP (Normal @ 30.8°C)	12V: 57A (124.45%), 11.932V *High Ripple (144.77mV) 5V: 25.7A (128.5%), 4.947V 3.3V: 26.3A (131.5%), 3.289V 5VSB: 4.1A (136.67%), 4.981V
OCP (Hot @ 41.1°C)	12V: 56.4A (123.14%), 11.928V *High Ripple (151.21mV) 5V: 25.2A (126%), 4.947V 3.3V: 25.9A (129.5%), 3.289V 5VSB: 4.1A (136.67%), 4.983V
OPP (Normal @ 30.2°C)	676.59W (123.02%)
OPP (Hot @ 40.8°C)	657.09W (119.47%)
OTP	✓ (124°C @ Secondary Side)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓ -12V to Earth: ✓
PWR_OK	Accurate but short
UVP (Full Load @ 90V)	✓
UVP (No Damage @ 80V)	✓
Conducted Emissions EN55032 & CISPR 32	✓
NLO	✓
Fan Failure Protection	✗
SIP	Surge: MOV Inrush: NTC

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%	**2.776A**	**1.982A**	**1.983A**	**0.995A**	54.984	79.855%	762	20.9	40.4°C	0.979
	12.027V	5.044V	3.327V	5.023V	68.86				41.84°C	115.1V
20%	**6.574A**	**2.98A**	**2.983A**	**1.195A**	109.895	86.117%	760	20.9	40.83°C	0.988
	12.018V	5.033V	3.318V	5.018V	127.63				41.4°C	115.08V
30%	**10.728A**	**3.483A**	**3.489A**	**1.396A**	164.876	88.218%	770	21.3	41.3°C	0.986
	12.009V	5.025V	3.31V	5.014V	186.924				42.86°C	115.06V
40%	**14.896A**	**3.988A**	**3.999A**	**1.597A**	219.95	88.888%	867	24.7	41.58°C	0.993
	11.999V	5.015V	3.301V	5.01V	247.439				42.91°C	115.04V
50%	**18.718A**	**4.996A**	**5.013A**	**1.798A**	274.936	89.012%	1051	29.5	42.37°C	0.996
	11.990V	5.004V	3.291V	5.005V	308.863				45.29°C	115.02V
60%	**22.548A**	**6.01A**	**6.035A**	**1.999A**	329.921	88.763%	1283	35.3	42.95°C	0.997
	11.980V	4.992V	3.281V	5.001V	371.676				46.58°C	115V
70%	**26.382A**	**7.029A**	**7.064A**	**2.201A**	384.908	88.349%	1505	39.8	43.42°C	0.998
	11.970V	4.979V	3.27V	4.996V	435.657				45.62°C	114.98V
80%	**30.209A**	**8.05A**	**8.096A**	**2.303A**	439.208	87.745%	1690	42.4	43.67°C	0.998
	11.961V	4.968V	3.26V	4.993V	500.554				44.67°C	114.96V
90%	**34.452A**	**8.57A**	**8.61A**	**2.405A**	494.244	87.176%	2111	48.7	44.04°C	0.998
	11.951V	4.958V	3.251V	4.989V	566.938				47.38°C	114.94V
100%	**38.503A**	**9.093A**	**9.162A**	**3.012A**	549.453	86.374%	2103	48.7	45.37°C	0.998
	11.941V	4.948V	3.241V	4.98V	636.128				47.45°C	114.92V
110%	**42.426A**	**10.128A**	**10.307A**	**3.013A**	604.468	85.564%	2110	48.7	46.5°C	0.998
	11.932V	4.936V	3.23V	4.978V	706.429				49.39°C	114.9V
CL1	**0.115A**	**12.064A**	**12.038A**	**0A**	101.265	81.929%	954	28	40.61°C	0.988
	12.012V	4.989V	3.297V	5.032V	123.603				43.8°C	115.08V

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**	**20.104A**	**0A**	**0A**	101.349	80.319%	951	28	40.7°C	0.988
	12.017V	4.972V	3.314V	5.036V	126.165				42.21°C	115.07V
CL3	**0.115A**	**0A**	**20.052A**	**0A**	67.374	75.35%	949	28	38.4°C	0.985
	12.015V	5.023V	3.291V	5.031V	89.408				41.33°C	115.08V
CL4	**45.990A**	**0A**	**0A**	**0A**	549.441	87.373%	2116	48.7	45.97°C	0.998
	11.947V	4.992V	3.265V	5.019V	628.837				48.48°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
10%	**2.778A**	**1.983A**	**1.984A**	**0.996A**	55.008	81.403%	763	20.8	40.24°C	0.84
	12.024V	5.043V	3.326V	5.021V	67.583				43.65°C	230.23V
20%	**6.579A**	**2.982A**	**2.985A**	**1.196A**	109.95	87.787%	764	20.8	40.79°C	0.924
	12.014V	5.032V	3.316V	5.017V	125.244				43.67°C	230.22V
30%	**10.736A**	**3.485A**	**3.492A**	**1.397A**	164.946	89.832%	872	24.8	41.12°C	0.957
	12.005V	5.023V	3.308V	5.013V	183.612				43.79°C	230.22V
40%	**14.908A**	**3.99A**	**4.001A**	**1.598A**	220.03	90.64%	951	28	41.77°C	0.969
	11.996V	5.013V	3.299V	5.008V	242.756				43.38°C	230.21V
50%	**18.732A**	**5A**	**5.017A**	**1.799A**	275.027	90.875%	1048	29.5	42.3°C	0.978
	11.986V	5.002V	3.289V	5.003V	302.634				44.8°C	230.2V
60%	**22.562A**	**6.014A**	**6.039A**	**2A**	330.022	90.821%	1211	34.3	42.72°C	0.982
	11.976V	4.99V	3.279V	4.998V	363.367				42.34°C	230.19V
70%	**26.399A**	**7.033A**	**7.068A**	**2.203A**	385.026	90.637%	1363	37.5	43.15°C	0.986
	11.967V	4.978V	3.269V	4.994V	424.784				44.8°C	230.18V
80%	**30.245A**	**8.054A**	**8.102A**	**2.305A**	439.525	90.2%	1638	41.8	43.77°C	0.987
	11.957V	4.966V	3.258V	4.99V	487.269				45.52°C	230.16V
90%	**34.490A**	**8.576A**	**8.618A**	**2.407A**	494.546	89.735%	2108	48.7	44.28°C	0.989
	11.947V	4.956V	3.249V	4.987V	551.133				45.01°C	230.15V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	**38.541A**	**9.099A**	**9.17A**	**3.014A**	549.754	89.284%	2110	48.7	45.67°C	0.991
	11.936V	4.946V	3.239V	4.977V	615.725				47.61°C	230.14V
110%	**42.468A**	**10.137A**	**10.316A**	**3.015A**	604.751	88.757%	2112	48.7	46.09°C	0.992
	11.925V	4.932V	3.227V	4.975V	681.357				48.27°C	230.13V
CL1	**0.117A**	**12.07A**	**12.044A**	**0A**	101.292	83.392%	1050	29.5	40.06°C	0.921
	12.009V	4.987V	3.296V	5.031V	121.474				42.83°C	230.22V
CL2	**0.116A**	**20.114A**	**0A**	**0A**	101.365	81.735%	1050	29.5	41.93°C	0.923
	12.015V	4.97V	3.313V	5.034V	124.024				43.91°C	230.22V
CL3	**0.115A**	**0A**	**20.06A**	**0A**	67.384	76.569%	1048	29.5	40.68°C	0.882
	12.012V	5.023V	3.29V	5.03V	88.011				42.6°C	230.22V
CL4	**46.013A**	**0A**	**0A**	**0A**	549.573	90.307%	2115	48.7	45.29°C	0.991
	11.944V	4.99V	3.263V	5.018V	608.565				47.02°C	230.14V

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	**1.233A**	**0.495A**	**0.495A**	**0.199A**	19.988	65.116%	751	21.2	36.63°C	0.926
	12.034V	5.055V	3.335V	5.032V	30.744				37.74°C	115.1V
40W	**2.716A**	**0.693A**	**0.693A**	**0.298A**	39.986	81.159%	753	21.1	37.11°C	0.966
	12.031V	5.052V	3.332V	5.031V	49.274				38.51°C	115.1V
60W	**4.200A**	**0.891A**	**0.892A**	**0.398A**	59.985	81.369%	754	21.1	38.38°C	0.982
	12.027V	5.049V	3.329V	5.029V	73.732				39.96°C	115.09V
80W	**5.679A**	**1.09A**	**1.091A**	**0.497A**	79.909	84.251%	758	21	39.18°C	0.987
	12.024V	5.046V	3.326V	5.027V	94.857				41.94°C	115.09V

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**	**0.495A**	**0.495A**	**0.199A**	20.003	65.07%	752	21.2	36.41°C	0.643
	12.032V	5.054V	3.334V	5.03V	30.742				38.53°C	230.24V
40W	**2.718A**	**0.693A**	**0.693A**	**0.298A**	40.003	82.337%	755	21	37.01°C	0.767
	12.029V	5.051V	3.332V	5.029V	48.592				38.62°C	230.24V
60W	**4.202A**	**0.892A**	**0.892A**	**0.398A**	60.003	82.751%	757	21	38.71°C	0.852
	12.025V	5.048V	3.328V	5.027V	72.524				39.78°C	230.24V
80W	**5.683A**	**1.09A**	**1.092A**	**0.497A**	79.952	85.83%	758	21	39.18°C	0.889
	12.022V	5.045V	3.325V	5.026V	93.149				40.77°C	230.23V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	29.18mV	14.12mV	15.36mV	12.03mV	Pass
20% Load	29.96mV	18.85mV	19.08mV	15.12mV	Pass
30% Load	31.04mV	14.73mV	18.10mV	15.33mV	Pass
40% Load	37.74mV	20.35mV	18.37mV	32.10mV	Pass
50% Load	41.35mV	17.21mV	18.62mV	13.47mV	Pass
60% Load	49.44mV	16.74mV	19.08mV	13.63mV	Pass
70% Load	58.36mV	17.72mV	20.01mV	13.89mV	Pass
80% Load	67.18mV	20.40mV	22.44mV	14.81mV	Pass
90% Load	79.76mV	21.85mV	22.65mV	15.28mV	Pass
100% Load	96.82mV	22.67mV	23.68mV	24.47mV	Pass
110% Load	112.29mV	23.18mV	24.41mV	24.88mV	Pass
Crossload1	32.22mV	18.70mV	19.75mV	47.80mV	Pass
Crossload2	33.20mV	28.03mV	16.03mV	10.63mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	34.54mV	15.51mV	24.46mV	10.94mV	Pass
Crossload4	93.42mV	19.17mV	20.11mV	11.56mV	Pass

The results above are not used in the certification process

230V

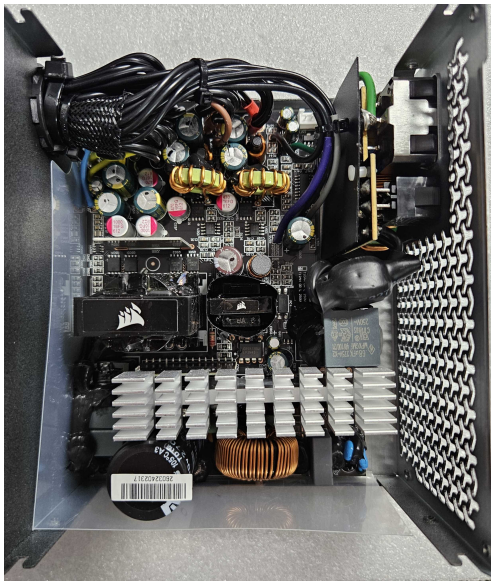
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	30.42mV	13.09mV	15.67mV	11.92mV	Pass
20% Load	30.06mV	13.91mV	15.88mV	11.62mV	Pass
30% Load	31.45mV	14.53mV	17.48mV	14.45mV	Pass
40% Load	36.81mV	15.82mV	18.98mV	13.01mV	Pass
50% Load	43.98mV	15.71mV	18.98mV	13.16mV	Pass
60% Load	52.33mV	16.59mV	19.08mV	13.37mV	Pass
70% Load	61.61mV	17.41mV	19.34mV	14.30mV	Pass
80% Load	71.92mV	21.53mV	22.39mV	14.92mV	Pass
90% Load	87.49mV	22.00mV	22.75mV	15.74mV	Pass
100% Load	103.27mV	22.15mV	23.89mV	24.31mV	Pass
110% Load	128.89mV	23.03mV	25.29mV	25.60mV	Fail
Crossload1	33.31mV	17.67mV	18.15mV	10.74mV	Pass
Crossload2	34.29mV	26.22mV	14.84mV	10.53mV	Pass
Crossload3	36.45mV	14.89mV	23.89mV	10.12mV	Pass
Crossload4	101.83mV	19.78mV	20.11mV	12.28mV	Pass

The results above are not used in the certification process









Corsair CX550 (ATXv3.1)

Top side

Power specifications label

Fan

PSU Internals

Cybenetics 提供自願性認證方案: 電源供應器方面有 ETA (效率)、 LAMBDA (噪音) 與 SAFE (安全與正確運作)；散熱產品方面有 DELTA (機殼隔音) 與 PHI (風扇風量與靜壓)

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