SAMA 先马

SAMA P1000 (China: XP1000)

Serial Number -

Lab ID SM10002929

Certification ID 252929

Test Result Report ID: 25PS2929A

Certificate Issue Date: Aug 12, 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	SAMA
Model	P1000 (China: XP1000)
OEM/ODM	RSY
Serial Number	-
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	8-15

Rated Frequency (Hz)	50-60
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	140 mm Fluid Dynamic Bearing Fan (S1402512HH)
Semi-Passive Operation	✓
Cybenetics Testing Information	
Lab ID	SM10002929
Date of receipt	Jul 22, 2025
Testing Date	Aug 11, 2025
Report Issued Date	Aug 12, 2025
DUT Notes	Inrush current was retested and updated on November 6, 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**	Cable Type
ATX connector 20+4 pin (600mm)	1	1	16-22AWG	Tinned Copper
4+4 pin ATX12V (700mm)	2	2	18AWG	Tinned Copper
6+2 pin PCIe (600mm)	3	3	18AWG	Tinned Copper
12+4 pin PCIe (600mm) (600W)	1	1	16-24AWG	Tinned Copper
SATA (460mm+150mm+150mm+150mm)	2	8	18AWG	Tinned Copper
4-pin Molex (450mm+150mm+150mm+150mm)	1	4	18AWG	Tinned Copper

AC Power Cord (1385mm) - C13 coupler	1	1	17AWG	-

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	83.3	3	0.4
	Watts	100		999.6	15	4.8
Total Max. Power (W)		1000				

Parts Description

Manufacturer (OEM)	RSY
PCB Type	Double-Sided
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	NTC Thermistor SCK-0512 (5 Ohm @ 25°C) & Relay
Brigde Rectifier	2x
APFC MOSFETs	3x Maple Semi SLF65R170E7 (650V, 12A @ 100°C, Rds(on): 170mOhm)
APFC Boost Diode	2x Maplesemi MSP06065G1 (650V/6A @ 150°C)
Bulk Cap(s)	2x Nippon Chemi-con (420V, 390uF each or 780uF combined, 2000h @ 105°C,KMR)
Main Switchers	4x Convert CS20N50FF (500V, 20A @ 25°C, Rds(on): 0.27Ohm)

APFC Controller	Texas Instrument UCC28180 & Sync Power SPN5003 (reducing no load consumption)
Resonant Controller	Texas Instrument UCC25600
IC Driver	2x Silicon Labs Si8233BD
Topology	Primary side: Bridgeless PFC, Half-Bridge & LLC Resonant Converter Secondary side: [12V] Synchronous Rectification & [Minor Rails] DC-DC converters
+12V MOSFETs	6x Huayi Microelectronics HYG020N04NR1P (40V, 160A @ 100°C, Rds(on): 2.5mOhm)
5V & 3.3V	DC-DC Converters: 6x Infineon BSC0906NS (30V, 40A @ 100°C, Rds(on): 4.5mOhm) PWM Controller(s): 2x ANPEC APW7160A
Filtering Capacitors	Electrolytic: 5x Rubycon (3-6,000 @ 105°C, YXS) 2x Rubycon (4-10,000 @ 105°C, YXJ) 30x UNICON (2-5,000 @ 105°C, KXM) Polymer: 11x Nippon Chemi-con, 14x UNICON (UPB)
Supervisor IC	INFSitronix IN1S313I-SAG
Fan Model	Globe Fan RL4Z S142512 (140mm, 12V, 0.5A, Fluid Dynamic Bearing Fan)
Rectifier(s)	Shenzhen Foster Semiconductor FIR4N70BLG (700V, 2.5A @ 100°C, Rds(on): 3mOhm) & PingWei PS10U60S (60V, 10A)
Standby PWM Controller	INFSitronix IN2P070C

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)	90.678%
Average Noise Output (>1450 Load Combinations)	19.95dBA
Average PF (>1450 Load Combinations)	0.990
Efficiency With 10W (≤500W) or 2% (>500W) Load	73.456%
Standby Power Consumption	0.0470W
Non-Accredited	
12V Ripple (Full Load)	22.60mV
5V Ripple (Full Load)	18.94mV
3.3V Ripple (Full Load)	22.94mV
5VSB Ripple (Full Load)	17.34mV
12V Load Regulation	0.70%
5V Load Regulation	0.87%
3.3V Load Regulation	1.26%
5VSB Load Regulation	2.23%
Inrush Current	35.930A

230V

Accredited	
Average Efficiency (>1450 load combinations)	92.500%
Average Noise Output (>1450 Load Combinations)	19.56dBA
Average PF (>1450 Load Combinations)	0.955
Efficiency With 10W (≤500W) or 2% (>500W) Load	74.153%
Standby Power Consumption	0.1338W
Non-Accredited	
12V Ripple (Full Load)	23.86mV
5V Ripple (Full Load)	18.17mV
3.3V Ripple (Full Load)	21.95mV

5VSB Ripple (Full Load)		17.55mV
12V Load Regulation		0.68%
5V Load Regulation		0.78%
3.3V Load Regulation		1.17%
5VSB Load Regulation		2.25%
Inrush Current		69.270A
12V Transient Response (200%)		11.30V
5V Transient Response (200%)		4.915V
3.3V Transient Response (200%)		3.184V
5VSB Transient Response (200%)		4.999V
Hold-Up Time & PWR_OK Signal		21.00ms
AC Loss to PWR_OK Hold Up Time		19.90ms
PWR_OK Inactive to DC Loss Delay		1.10ms
PSU Timings: T1 (20% / 100%)	106.0ms	109.0ms
PSU Timings: T3 (20% / 100%)	119.0ms	120.0ms
12V OCP (30.2°C / 42.8°C)	124.40A (149.34%), 12.018V	117.80A (141.42%), 12.024V
5V OCP (30.2°C / 42.8°C)	28.8A (144.00%), 5.046V	27.9A (139.50%), 5.047V
3.3V OCP (30.2°C / 42.8°C)	27.1A (135.50%), 3.279V	26.5A (132.50%), 3.28V
5VSB OCP (30.2°C / 42.8°C)	4.7A (156.67%), 5.027V	4.6A (153.33%), 5.043V
OPP (30.03°C / 43.05°C)	148.71%	138.61%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	21
AC Loss to PWR_OK Hold Up Time (ms)	19.9
PWR_OK Inactive to DC Loss Delay (ms)	1.1

Stromverbrauch im Ruhezustand

Tables

115V

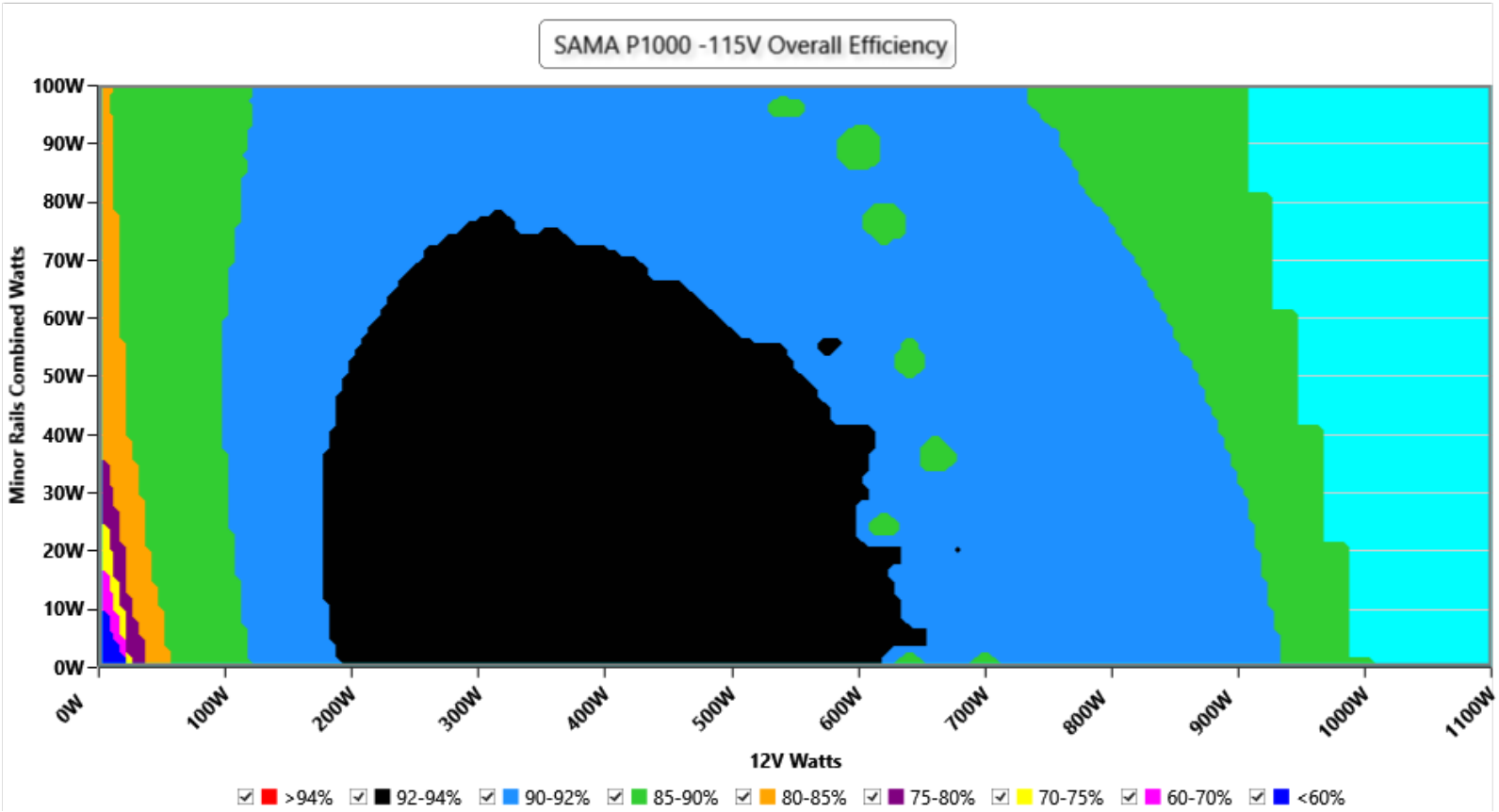
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.09 V	115.05 V	113.85 V	115.13 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.418	1.490	PASS
Mains Voltage THD:	0.13 %	0.09 %	N/A	0.18 %	2.00 %	PASS
Real Power:	0.047 W	-0.004 W	N/A	0.082 W	N/A	N/A
Apparent Power:	9.153 W	8.818 W	N/A	9.497 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:	231.03 V	230.93 V	227.70 V	231.11 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	0.26 %	2.00 %	PASS
Real Power:	0.134 W	0.088 W	N/A	0.199 W	N/A	N/A
Apparent Power:	29.886 W	29.442 W	N/A	30.364 W	N/A	N/A
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

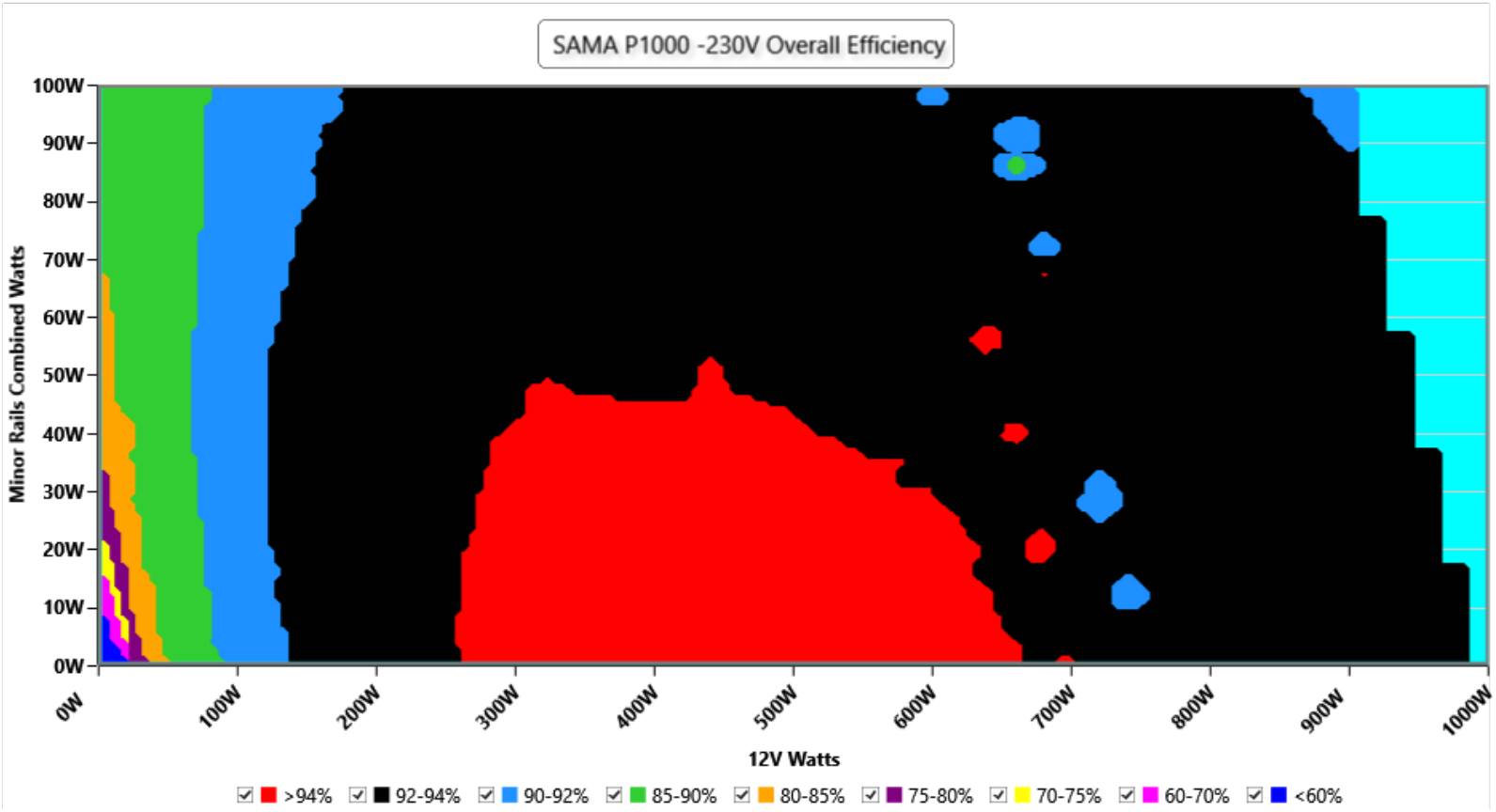
115V



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

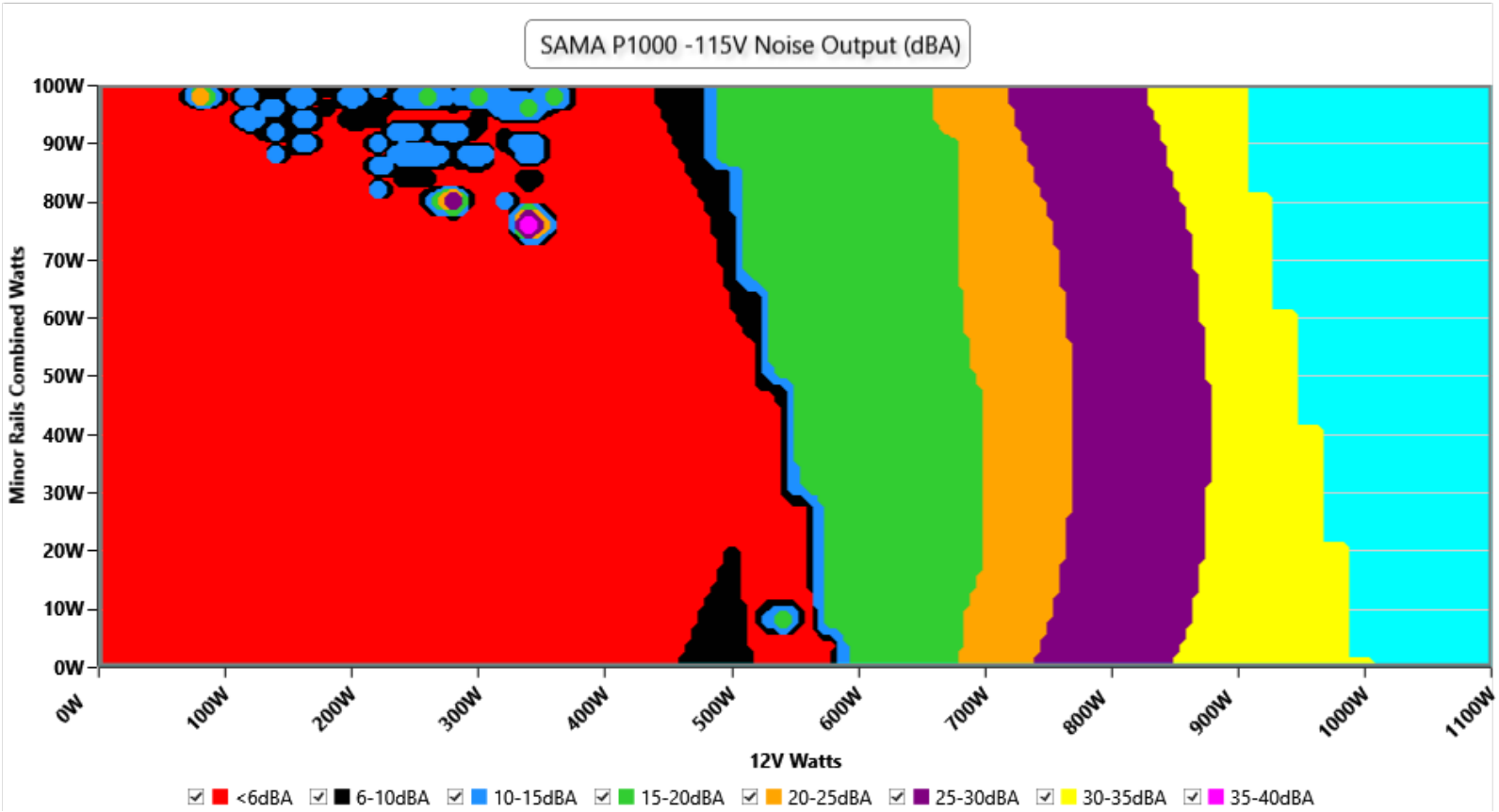


INFO

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

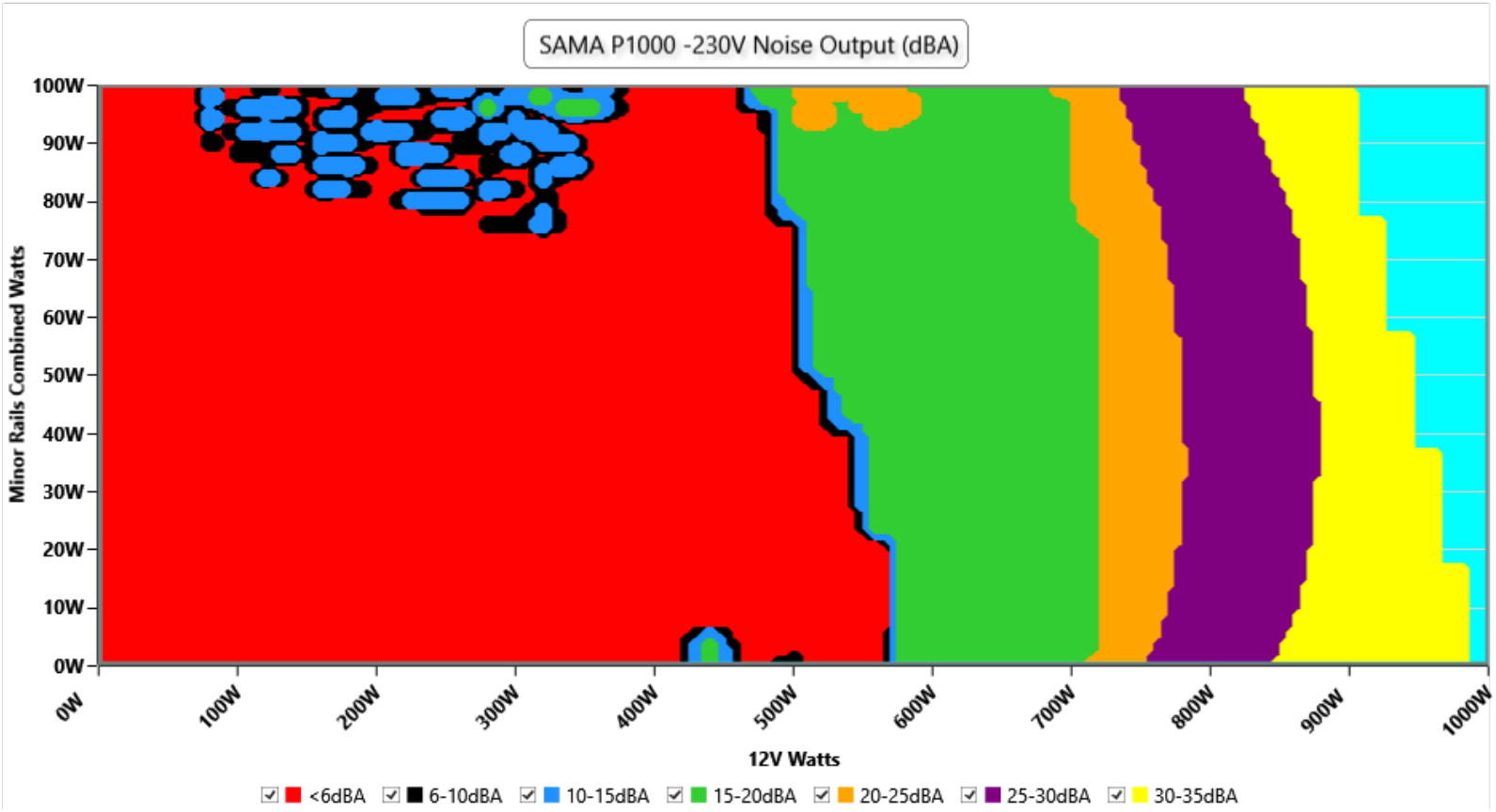
115V



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) · 37.2 °C	0 RPM · <6.0 dB(A) · 43.6 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 38.9 °C	0 RPM · <6.0 dB(A) · 47.8 °C	fan off in both
50%	293 RPM · <6.0 dB(A) · 31.0 °C	385 RPM · <6.0 dB(A) · 42.2 °C	fan off in both
100%	1189 RPM · 32.4 dB(A) · 30.4 °C	1584 RPM · 41.5 dB(A) · 45.8 °C	**+9.1 dB(A)**

230V

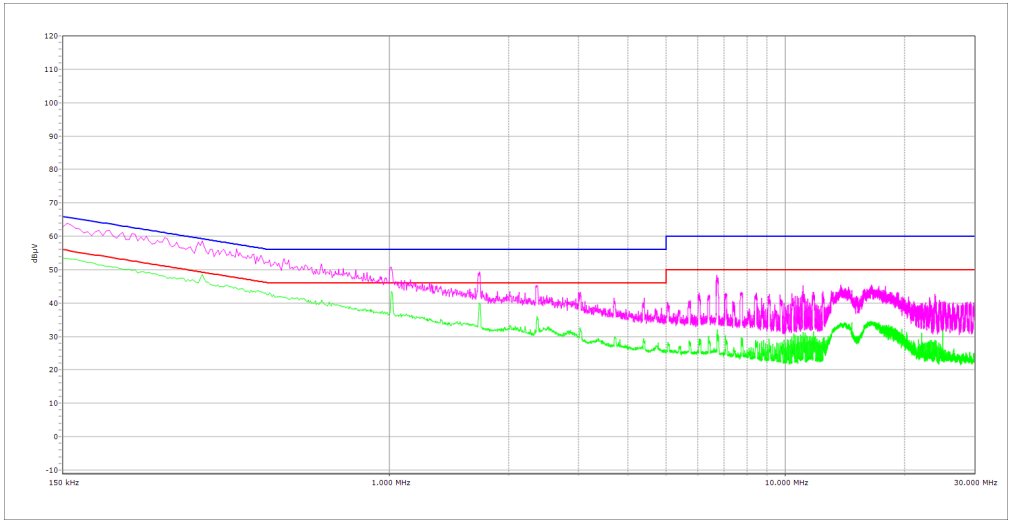
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	0 RPM · <6.0 dB(A) · 36.1 °C	0 RPM · <6.0 dB(A) · 48.5 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 36.5 °C	0 RPM · <6.0 dB(A) · 50.1 °C	fan off in both
50%	0 RPM · <6.0 dB(A) · 36.3 °C	491 RPM · 9.1 dB(A) · 42.3 °C	fan starts (<6.0 → 9.1)
100%	1122 RPM · 30.3 dB(A) · 30.7 °C	1584 RPM · 41.5 dB(A) · 45.0 °C	**+11.2 dB(A)**

INFO

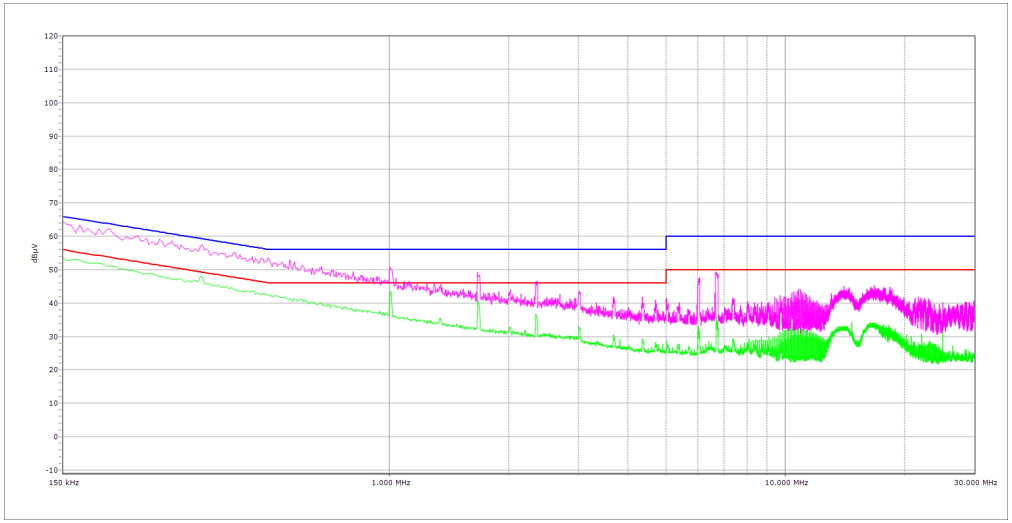
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative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



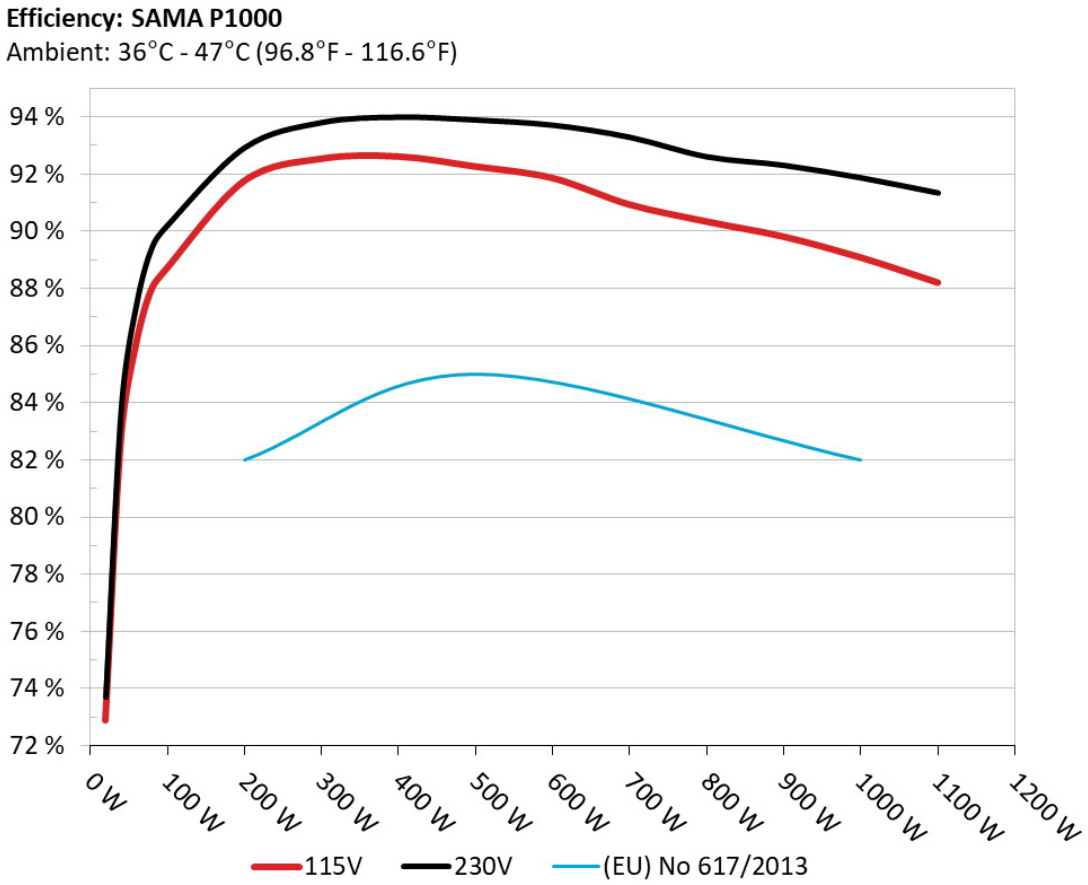
NEUTRAL



PHASE

Indicative Performance

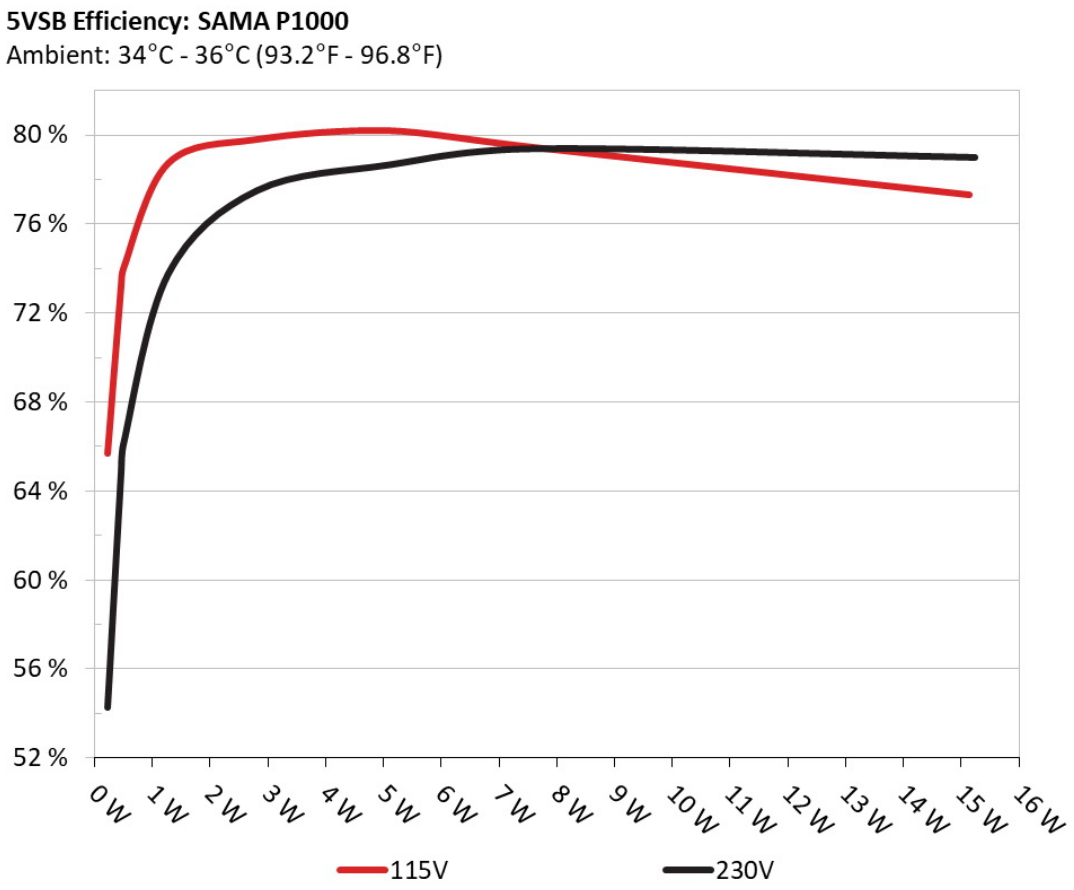
Efficiency under high ambient temperature



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**	0.23W	65.705%	0.038
	5.101V	0.35W		114.94V
2	**0.09A**	0.46W	73.111%	0.068
	5.105V	0.629W		114.93V
3	**0.55A**	2.814W	79.805%	0.283
	5.115V	3.526W		114.92V
4	**1A**	5.109W	80.196%	0.37
	5.108V	6.372W		114.92V
5	**1.5A**	7.609W	79.45%	0.42
	5.072V	9.578W		114.92V
6	**3A**	15.147W	77.319%	0.483
	5.049V	19.589W		114.91V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.231W	54.278%	0.015
	5.132V	0.426W		229.95V
2	**0.09A**	0.461W	64.679%	0.025
	5.124V	0.713W		229.99V
3	**0.55A**	2.814W	77.511%	0.119
	5.117V	3.631W		229.96V
4	**1A**	5.111W	78.672%	0.193
	5.11V	6.496W		229.95V
5	**1.5A**	7.655W	79.395%	0.253
	5.102V	9.643W		229.95V
6	**3A**	15.234W	79.002%	0.349
	5.078V	19.285W		229.94V

Protection Features

OCP (Normal @ 30.2°C)	12V: 124.40A (149.34%), 12.018V 5V: 28.8A (144.00%), 5.046V 3.3V: 27.1A (135.50%), 3.279V 5VSB: 4.7A (156.67%), 5.027V
OCP (Hot @ 42.8°C)	12V: 117.80A (141.42%), 12.024V 5V: 27.9A (139.50%), 5.047V 3.3V: 26.5A (132.50%), 3.28V 5VSB: 4.6A (153.33%), 5.043V
OPP (Normal @ 30.0°C)	1487.10W (148.71%)
OPP (Hot @ 43.0°C)	1386.10W (138.61%)
OTP	✓ (129°C @ Heat Sink)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓ -12V 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%	**6.482A**	**1.996A**	**2.008A**	**0.979A**	100.026	88.707%	0	<6.0	43.61°C	0.969
	12.098V	5.01V	3.287V	5.108V	112.762				40.4°C	114.84V
20%	**13.985A**	**2.997A**	**3.015A**	**1.177A**	199.987	91.752%	0	<6.0	47.75°C	0.987
	12.090V	5.006V	3.284V	5.099V	217.964				40.51°C	114.81V
30%	**21.847A**	**3.499A**	**3.521A**	**1.375A**	300.034	92.533%	0	<6.0	53.09°C	0.992
	12.083V	5.002V	3.281V	5.09V	324.247				41.11°C	114.8V
40%	**29.680A**	**4.003A**	**4.028A**	**1.574A**	399.624	92.612%	0	<6.0	55.21°C	0.994
	12.076V	4.997V	3.277V	5.082V	431.5				41.54°C	114.78V
50%	**37.194A**	**5.009A**	**5.042A**	**1.775A**	499.309	92.263%	385	<6.0	42.17°C	0.995
	12.067V	4.991V	3.273V	5.072V	541.177				49.45°C	114.75V
60%	**44.795A**	**6.022A**	**6.061A**	**1.976A**	599.826	91.859%	781	19.9	42.57°C	0.995
	12.055V	4.983V	3.267V	5.061V	652.98				49.39°C	114.72V
70%	**52.330A**	**7.028A**	**7.081A**	**2.179A**	699.547	90.933%	922	24.3	43.29°C	0.995
	12.048V	4.981V	3.263V	5.05V	769.301				50.75°C	114.68V
80%	**59.947A**	**8.034A**	**8.105A**	**2.282A**	799.55	90.337%	1170	31.7	43.56°C	0.996
	12.038V	4.977V	3.257V	5.04V	885.081				51.31°C	114.64V
90%	**67.908A**	**8.543A**	**8.609A**	**2.385A**	899.348	89.81%	1382	37	44.35°C	0.996
	12.029V	4.974V	3.253V	5.031V	1001.392				52.17°C	114.6V
100%	**75.679A**	**9.053A**	**9.145A**	**2.992A**	999.351	89.082%	1584	41.5	45.84°C	0.996
	12.020V	4.97V	3.248V	5.013V	1121.844				53.34°C	114.56V
110%	**83.394A**	**10.069A**	**10.27A**	**2.997A**	1099.962	88.198%	1757	43.1	46.66°C	0.995
	12.011V	4.965V	3.242V	5.006V	1247.148				54.96°C	114.51V
CL1	**0.116A**	**12.02A**	**12.099A**	**0A**	101.296	84.286%	785	20.3	41.15°C	0.972
	12.092V	5.008V	3.281V	5.12V	120.181				48.03°C	114.89V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL2	**0.116A**	**19.971A**	**0A**	**0A**	101.344	83.255%	788	20.8	40.39°C	0.972
	12.093V	5.005V	3.283V	5.122V	121.727				45.43°C	114.89V
CL3	**0.114A**	**0A**	**20.124A**	**0A**	67.399	78.103%	775	19	40.47°C	0.965
	12.094V	5.009V	3.28V	5.121V	86.293				44.79°C	114.9V
CL4	**83.170A**	**0A**	**0A**	**0A**	999.913	89.827%	1384	37	45.42°C	0.996
	12.022V	4.975V	3.251V	5.073V	1113.159				50.75°C	114.57V

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%	**6.479A**	**1.995A**	**2.007A**	**0.978A**	100.01	90.194%	0	<6.0	48.46°C	0.861
	12.102V	5.013V	3.289V	5.111V	110.881				40.15°C	230.03V
20%	**13.979A**	**2.995A**	**3.012A**	**1.176A**	199.961	92.906%	0	<6.0	50.14°C	0.937
	12.094V	5.009V	3.287V	5.102V	215.229				40.81°C	230.03V
30%	**21.838A**	**3.497A**	**3.518A**	**1.375A**	300.018	93.787%	0	<6.0	49.26°C	0.963
	12.087V	5.005V	3.284V	5.092V	319.892				41.16°C	230.01V
40%	**29.676A**	**4A**	**4.026A**	**1.574A**	399.629	93.974%	335	<6.0	41.72°C	0.97
	12.078V	5V	3.279V	5.083V	425.252				49.21°C	230V
50%	**37.187A**	**5.005A**	**5.039A**	**1.774A**	499.322	93.878%	491	9.1	42.26°C	0.974
	12.069V	4.995V	3.275V	5.073V	531.881				48.34°C	229.99V
60%	**44.782A**	**6.012A**	**6.055A**	**1.976A**	599.849	93.694%	783	20.1	42.62°C	0.977
	12.059V	4.991V	3.27V	5.061V	640.222				48.09°C	229.97V
70%	**52.315A**	**7.019A**	**7.074A**	**2.178A**	699.589	93.274%	882	23.1	43.3°C	0.977
	12.052V	4.988V	3.266V	5.05V	750.036				49.43°C	229.94V
80%	**59.924A**	**8.024A**	**8.095A**	**2.281A**	799.598	92.594%	1171	31.7	43.57°C	0.977
	12.044V	4.984V	3.261V	5.041V	863.548				49.96°C	229.92V
90%	**67.880A**	**8.532A**	**8.597A**	**2.385A**	899.404	92.295%	1393	37.1	44.19°C	0.978
	12.035V	4.981V	3.257V	5.032V	974.492				50.59°C	229.9V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	**75.641A**	**9.041A**	**9.132A**	**2.992A**	999.395	91.859%	1584	41.5	45.03°C	0.977
	12.027V	4.977V	3.253V	5.015V	1087.971				51.83°C	229.88V
110%	**83.356A**	**10.052A**	**10.255A**	**2.996A**	1099.999	91.328%	1755	43.1	46.13°C	0.977
	12.017V	4.973V	3.247V	5.007V	1204.45				53.31°C	229.86V
CL1	**0.116A**	**12.01A**	**12.095A**	**0A**	101.296	85.776%	786	20.5	42.42°C	0.87
	12.094V	5.012V	3.283V	5.12V	118.093				47.3°C	230.02V
CL2	**0.115A**	**19.953A**	**0A**	**0A**	101.344	84.648%	789	20.9	41.4°C	0.873
	12.095V	5.009V	3.284V	5.122V	119.728				45.58°C	230.03V
CL3	**0.114A**	**0A**	**20.118A**	**0A**	67.396	79.313%	774	19	40.35°C	0.802
	12.095V	5.01V	3.281V	5.121V	84.975				43.84°C	230.04V
CL4	**83.141A**	**0A**	**0A**	**0A**	999.928	92.595%	1370	36.7	45.22°C	0.977
	12.026V	4.978V	3.254V	5.074V	1079.894				50.3°C	229.9V

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	**1.228A**	**0.499A**	**0.502A**	**0.195A**	20.008	72.887%	0	<6.0	40.73°C	0.829
	12.104V	5.013V	3.289V	5.125V	27.451				36.07°C	114.88V
40W	**2.702A**	**0.698A**	**0.703A**	**0.293A**	40.008	82.696%	0	<6.0	40.05°C	0.919
	12.103V	5.013V	3.288V	5.122V	48.378				37.89°C	114.87V
60W	**4.176A**	**0.898A**	**0.904A**	**0.391A**	60.009	86.084%	0	<6.0	42.03°C	0.951
	12.101V	5.012V	3.287V	5.12V	69.709				38.18°C	114.86V
80W	**5.648A**	**1.098A**	**1.105A**	**0.489A**	79.969	87.975%	0	<6.0	42.99°C	0.964
	12.099V	5.011V	3.287V	5.118V	90.901				39.49°C	114.85V

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	**1.226A**	**0.498A**	**0.501A**	**0.195A**	20.004	73.721%	0	<6.0	44.71°C	0.536
	12.109V	5.016V	3.291V	5.128V	27.137				36.81°C	230.06V
40W	**2.700A**	**0.698A**	**0.702A**	**0.293A**	40.003	83.792%	0	<6.0	47.03°C	0.686
	12.107V	5.016V	3.29V	5.126V	47.759				37.39°C	230.05V
60W	**4.174A**	**0.897A**	**0.903A**	**0.39A**	60.003	87.46%	0	<6.0	46.01°C	0.748
	12.106V	5.015V	3.289V	5.123V	68.608				38.17°C	230.04V
80W	**5.645A**	**1.097A**	**1.104A**	**0.488A**	79.955	89.43%	0	<6.0	46.29°C	0.811
	12.103V	5.014V	3.289V	5.12V	89.412				39.08°C	230.03V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	18.06mV	16.86mV	14.12mV	11.10mV	Pass
20% Load	19.49mV	14.76mV	14.12mV	12.53mV	Pass
30% Load	21.95mV	13.59mV	14.12mV	12.53mV	Pass
40% Load	21.64mV	15.38mV	15.65mV	12.99mV	Pass
50% Load	22.87mV	13.95mV	15.55mV	13.81mV	Pass
60% Load	24.25mV	15.63mV	16.78mV	14.27mV	Pass
70% Load	23.53mV	15.94mV	17.60mV	15.14mV	Pass
80% Load	24.05mV	17.68mV	20.05mV	15.45mV	Pass
90% Load	23.23mV	18.39mV	21.28mV	16.01mV	Pass
100% Load	22.60mV	18.94mV	22.94mV	17.34mV	Pass
110% Load	23.82mV	18.83mV	22.30mV	18.06mV	Pass
Crossload1	18.67mV	14.95mV	20.33mV	20.66mV	Pass
Crossload2	20.41mV	23.15mV	17.85mV	21.74mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	19.08mV	14.56mV	20.56mV	22.10mV	Pass
Crossload4	23.16mV	16.79mV	17.13mV	20.72mV	Pass

The results above are not used in the certification process

230V

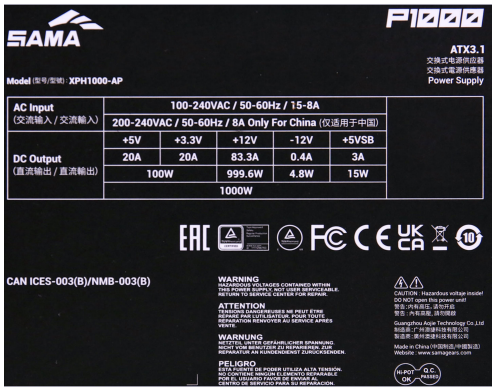
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	18.62mV	15.53mV	12.79mV	10.85mV	Pass
20% Load	18.73mV	12.67mV	13.86mV	12.02mV	Pass
30% Load	20.98mV	13.39mV	13.92mV	13.97mV	Pass
40% Load	21.90mV	13.79mV	14.12mV	12.48mV	Pass
50% Load	22.97mV	14.66mV	15.30mV	12.68mV	Pass
60% Load	23.69mV	15.23mV	16.22mV	13.91mV	Pass
70% Load	25.32mV	15.63mV	17.75mV	16.06mV	Pass
80% Load	23.84mV	17.78mV	19.39mV	15.65mV	Pass
90% Load	25.17mV	18.59mV	20.46mV	15.81mV	Pass
100% Load	23.86mV	18.17mV	21.95mV	17.55mV	Pass
110% Load	24.49mV	18.40mV	23.23mV	18.87mV	Pass
Crossload1	19.41mV	15.72mV	18.47mV	20.64mV	Pass
Crossload2	20.57mV	20.54mV	17.44mV	21.38mV	Pass
Crossload3	20.98mV	14.05mV	20.36mV	21.38mV	Pass
Crossload4	22.05mV	16.00mV	16.55mV	20.24mV	Pass

The results above are not used in the certification process

SAMA P1000 (China: XP1000)



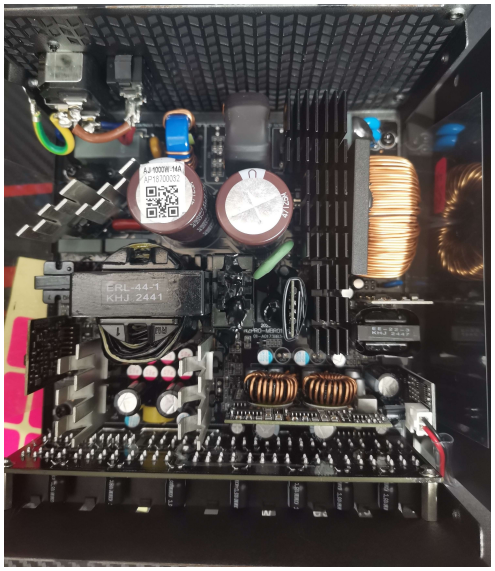
Top side



Power specifications label



Fan



PSU Inside

Cybenetics bietet freiwillige Zertifizierungsprogramme für Netzteile – ETA für Effizienz, LAMBDA für Lautstärke und SAFE für Sicherheit und korrekten Betrieb – sowie für Kühlprodukte mit DELTA für die Schalldämmung von Gehäusen und PHI für Luftstrom und statischen Druck von Lüftern

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