Seasonic Focus GX-1000 (ATX 3.1)

Serial Number A544940004

Lab ID SS10003022

Certification ID 253022

Test Result Report ID: 25PS3022A

Certificate Issue Date: Nov 7, 2025

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	Seasonic
Model	Focus GX-1000 (ATX 3.1)
OEM/ODM	Seasonic
Serial Number	A544940004
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240

Rated Current (Arms)	6.5-13
Rated Frequency (Hz)	50-60
Rated Power (W)	1000
Operating Temperature (Continuous Full Load) (°C)	0 - 50
Type	ATX12V
Cable Design	Fully Modular
Warranty	10 years
Cybenetics Measurements	
Dimensions (W x H x D)	150 x 85 x 140mm
Weight	1.68 kg (3.70 lb)
Cooling	135mm Fluid Dynamic Bearing Fan (HA13525H12SF-Z)
Semi-Passive Operation	✓ (selectable)
Cybenetics Testing Information	
Lab ID	SS10003022
Date of receipt	Oct 17, 2025
Testing Date	Nov 5, 2025
Report Issued Date	Nov 7, 2025
Engineer Name	Okeke Ugochukwu Onyedikachukwu
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 (610mm)	1	1	16-18AWG	Tinned Copper
4+4 pin EPS12V (750mm)	2	2	16AWG	Tinned Copper
6+2 pin PCIe (750mm)	2	2	16AWG	Tinned Copper
2x 6+2 pin PCIe (700mm)	2	2	16-18AWG	Tinned Copper
12+4 pin PCIe (700mm) (600W)	1	1	16-28AWG	Tinned Copper

SATA (500mm+150mm+150mm+150mm)	2	8	18AWG	Tinned Copper
4-pin Molex (450mm+120mm+120mm)	1	3	18AWG	Tinned Copper

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	25	25	83	3	0.3
	Watts	125		996	15	3.6
Total Max. Power (W)		1000				

Parts Description

General Data	
Manufacturer (OEM)	Seasonic
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	NTC Thermistor MF72 5D-20 (5 Ohm @ 25°C) & Relay
Bridge Rectifier	2x GBU1508 (800V, 15A @ 100°C)
APFC MOSFETs	2x Alpha & Omega AOB125A60L (600V, 18A @ 100°C, Rds(on): 0.125Ohm)
APFC Boost Diode	Infineon IDH08G65C5 (650V, 8A @ 145°C)
Bulk Cap(s)	Nippon Chemi-Con (420V, 820uF, 2000h @ 105°C, KHE)
Main Switchers	4x Alpha & Omega AOB190A60CL (600V, 12A @ 100°C, Rds(on): 0.19Ohm)

APFC Controller	Champion CM6500UNX
Resonant Controller	Champion CM6901T6X
Topology	Primary side: APFC, Full-Bridge & LLC Resonant Converter Secondary side: [12V] Synchronous Rectification & [Minor Rails] DC-DC converters
Secondary Side	
+12V MOSFETs	6x Nexperia PSMN1R4-40YLD (40V, 240A @ 25°C, Rds(on): 1.4mOhm)
5V & 3.3V	DC-DC Converters: 4x Nexperia PSMN4R0-30YLD (30V, 95A @ 25°C, Rds(on): 4mOhm) PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic: 4x Nippon Chemi-Con (1-5,000h @ 105°C, KZE) 4x Nichicon (2-5,000h @ 105°C, HD) 5x Rubycon (3-6,000h @ 105°C, YXG) Polymer: 29x Nippon Chemi-Con, 2x FPCAP
Supervisor IC	Weltrend WT7527RA (OVP, UVP, OCP, SCP, PG)
Micro Controller	Nuvoton M031FB0AE
Fan Model	Hong Hua HA13525H12SF-Z (135mm, 12V, 0.50A, Fluid Dynamic Bearing Fan)
5VSB Circuit	
Rectifier	Dongke DK5V45R10S (45V, 10mOhm)
Standby PWM Controller	Excelliance MOS EM8569C

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)	89.433%
Average Noise Output (>1450 Load Combinations)	20.94dBA
Average PF (>1450 Load Combinations)	0.977
Efficiency With 10W (≤500W) or 2% (>500W) Load	67.433%
Standby Power Consumption	0.0415W
Non-Accredited	
12V Ripple (Full Load)	29.97mV
5V Ripple (Full Load)	20.48mV
3.3V Ripple (Full Load)	18.31mV
5VSB Ripple (Full Load)	14.15mV
12V Load Regulation	0.21%
5V Load Regulation	0.28%
3.3V Load Regulation	0.58%
5VSB Load Regulation	3.69%
Inrush Current	24.390A

230V

Accredited	
Average Efficiency (>1450 load combinations)	91.569%
Average Noise Output (>1450 Load Combinations)	21.21dBA
Average PF (>1450 Load Combinations)	0.946
Efficiency With 10W (≤500W) or 2% (>500W) Load	68.166%
Standby Power Consumption	0.1131W
Non-Accredited	
12V Ripple (Full Load)	30.22mV
5V Ripple (Full Load)	20.13mV
3.3V Ripple (Full Load)	20.28mV

5VSB Ripple (Full Load)		14.35mV
12V Load Regulation		0.29%
5V Load Regulation		0.28%
3.3V Load Regulation		0.58%
5VSB Load Regulation		3.65%
Inrush Current		42.430A
12V Transient Response (200%)		11.55V
5V Transient Response (200%)		4.927V
3.3V Transient Response (200%)		3.199V
5VSB Transient Response (200%)		4.896V
Hold-Up Time & PWR_OK Signal		23.20ms
AC Loss to PWR_OK Hold Up Time		19.80ms
PWR_OK Inactive to DC Loss Delay		3.40ms
PSU Timings: T1 (20% / 100%)	67.0ms	65.0ms
PSU Timings: T3 (20% / 100%)	125.0ms	127.0ms
12V OCP (28.9°C / 42.1°C)	105.40A (126.99%), 12.079V	98.00A (118.07%), 12.101V
5V OCP (28.9°C / 42.1°C)	29.5A (118.00%), 5.059V	28.6A (114.40%), 5.068V
3.3V OCP (28.9°C / 42.1°C)	36.3A (145.20%), 3.293V	36.2A (144.80%), 3.3V
5VSB OCP (28.9°C / 42.1°C)	6.5A (216.67%), 4.829V	6.3A (210.00%), 4.824V
OPP (26.96°C / 43.07°C)	129.31%	121.21%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	23.2
AC Loss to PWR_OK Hold Up Time (ms)	19.8
PWR_OK Inactive to DC Loss Delay (ms)	3.4

Vampire Power

Tables

115V

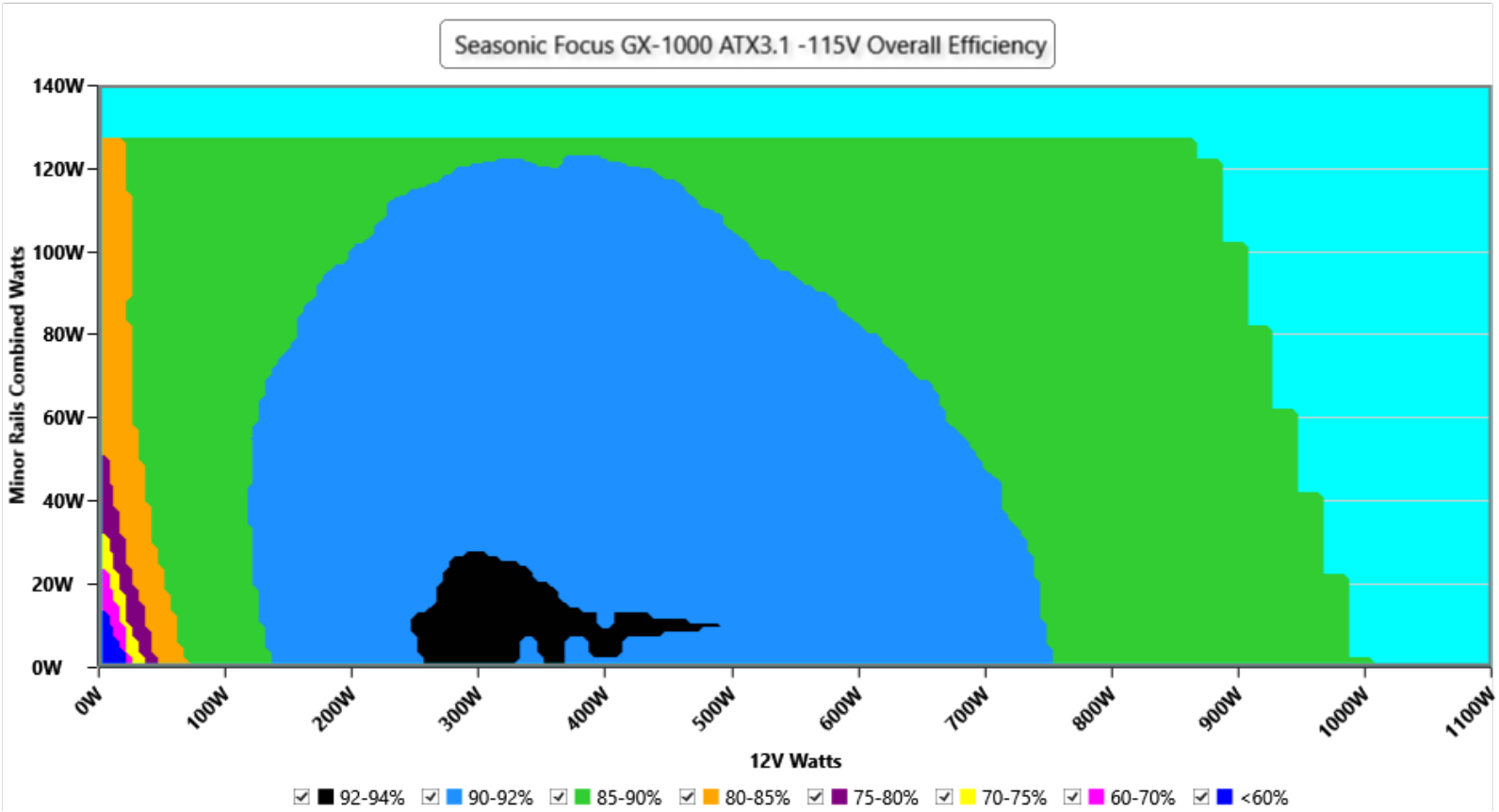
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.02 V	114.99 V	113.85 V	115.10 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.417	1.490	PASS
Mains Voltage THD:	0.13 %	0.10 %	N/A	0.16 %	2.00 %	PASS
Real Power:	0.042 W	-0.004 W	N/A	0.085 W	N/A	N/A
Apparent Power:	7.144 W	7.114 W	N/A	7.174 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:	230.01 V	229.99 V	227.70 V	230.04 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:	0.15 %	0.13 %	N/A	0.16 %	2.00 %	PASS
Real Power:	0.113 W	0.067 W	N/A	0.166 W	N/A	N/A
Apparent Power:	22.763 W	22.725 W	N/A	22.803 W	N/A	N/A
Power Factor:	0.005	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

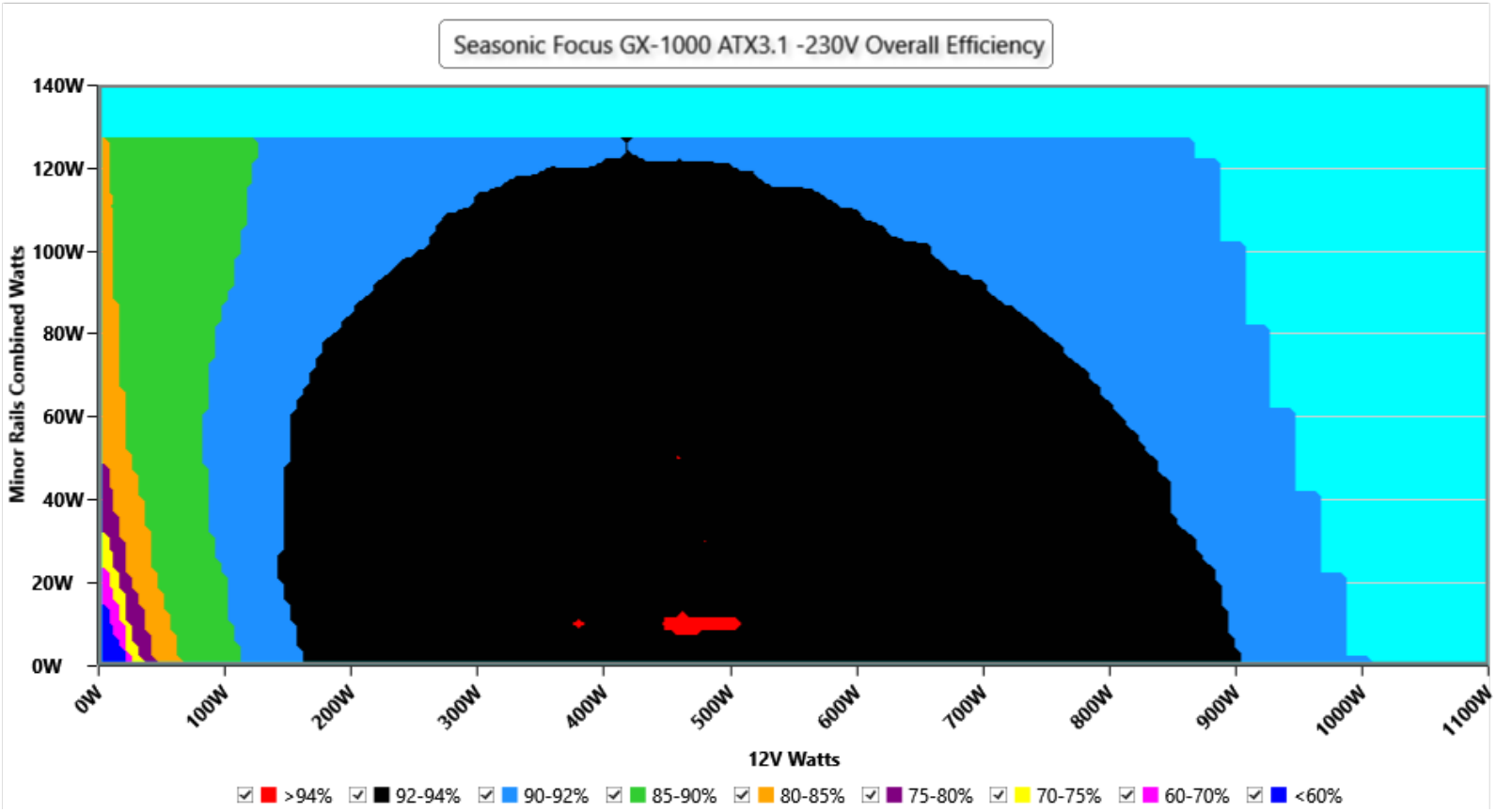
115V



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

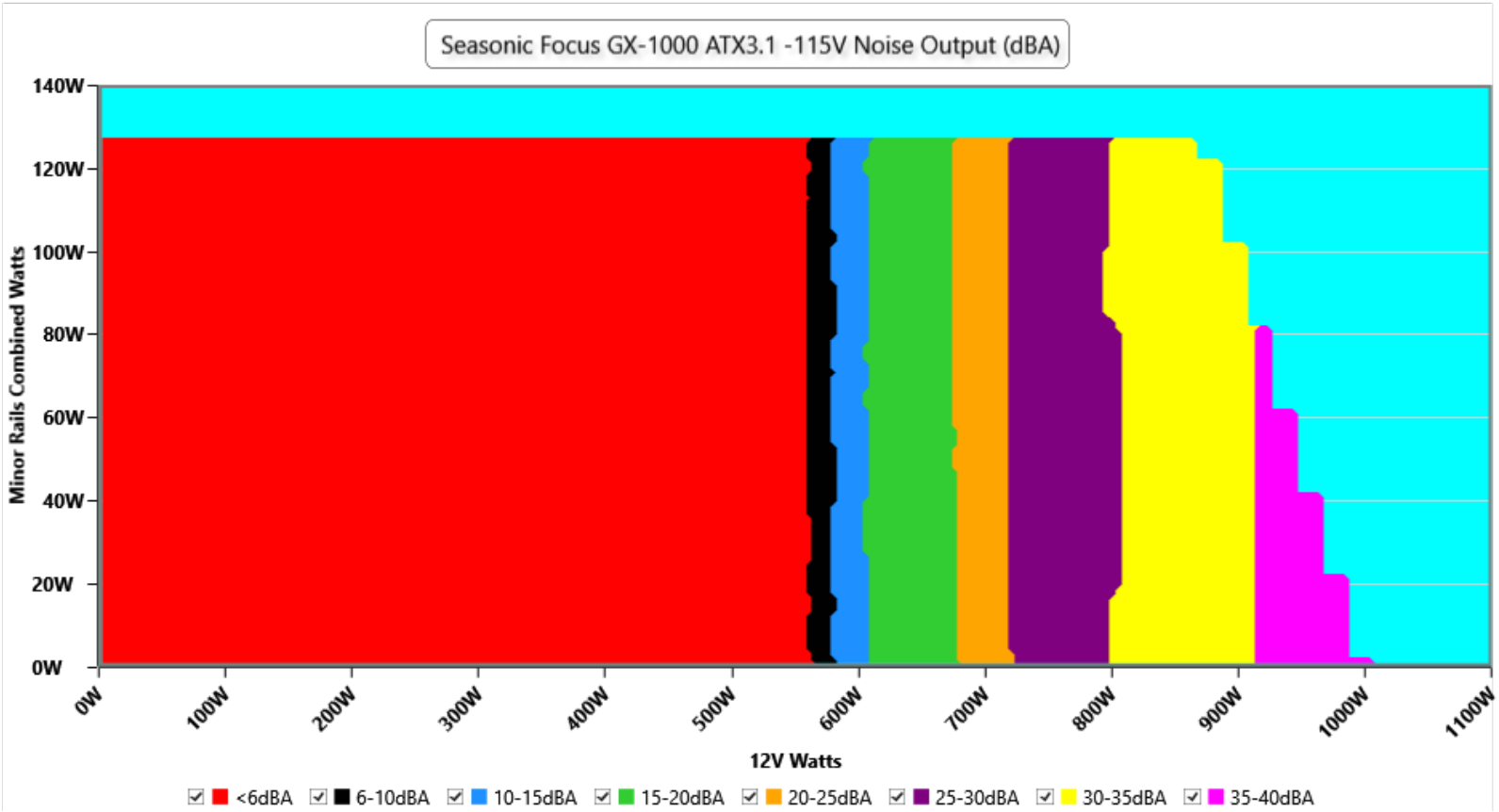


INFO

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

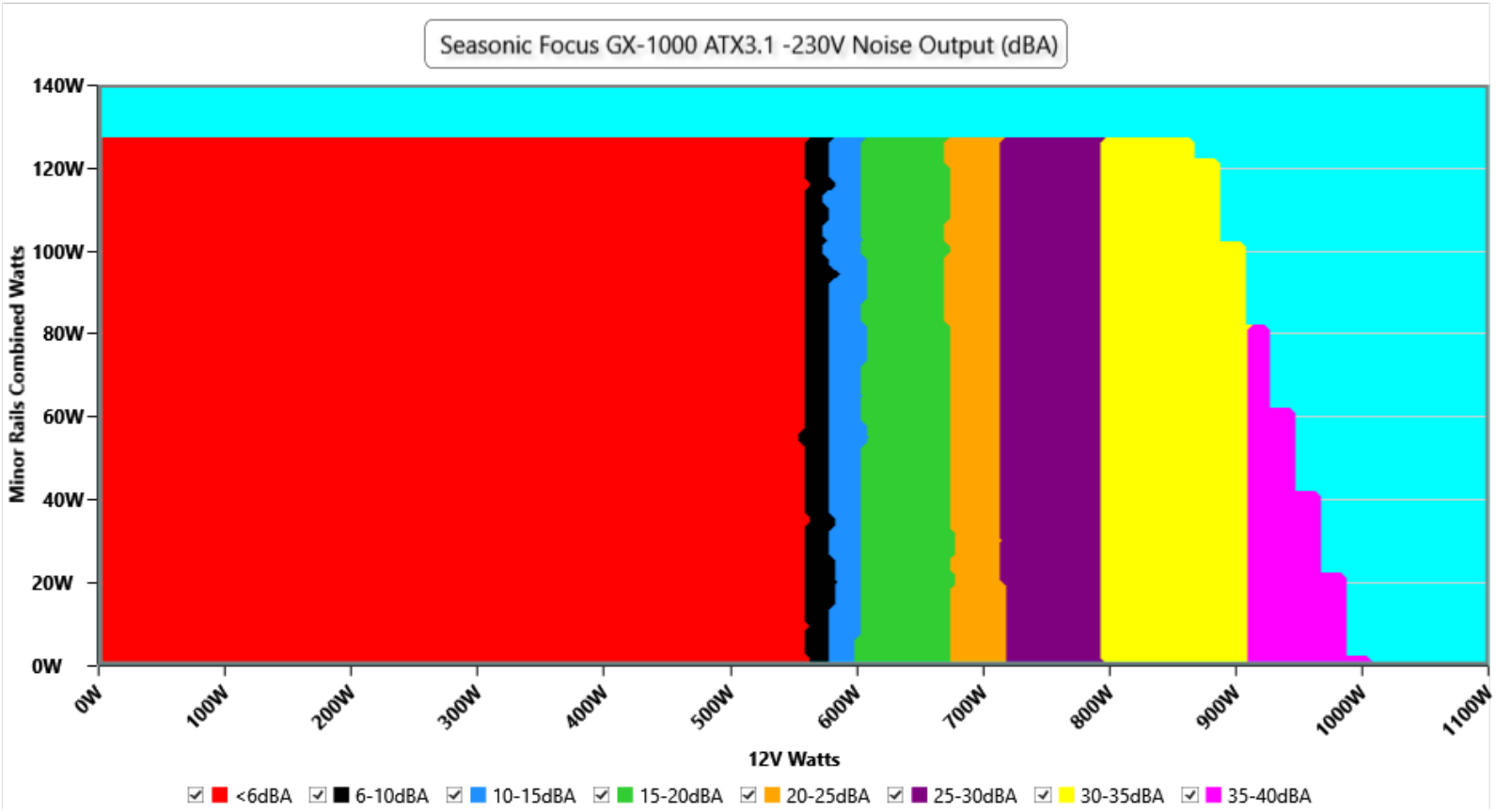
115V



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) · 33.6 °C	0 RPM · <6.0 dB(A) · 47.8 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 35.7 °C	0 RPM · <6.0 dB(A) · 48.4 °C	fan off in both
50%	398 RPM · <6.0 dB(A) · 30.1 °C	428 RPM · <6.0 dB(A) · 42.2 °C	<6.0 in both
100%	1213 RPM · 34.9 dB(A) · 30.3 °C	1518 RPM · 41.0 dB(A) · 45.1 °C	**+6.1 dB(A)**

230V

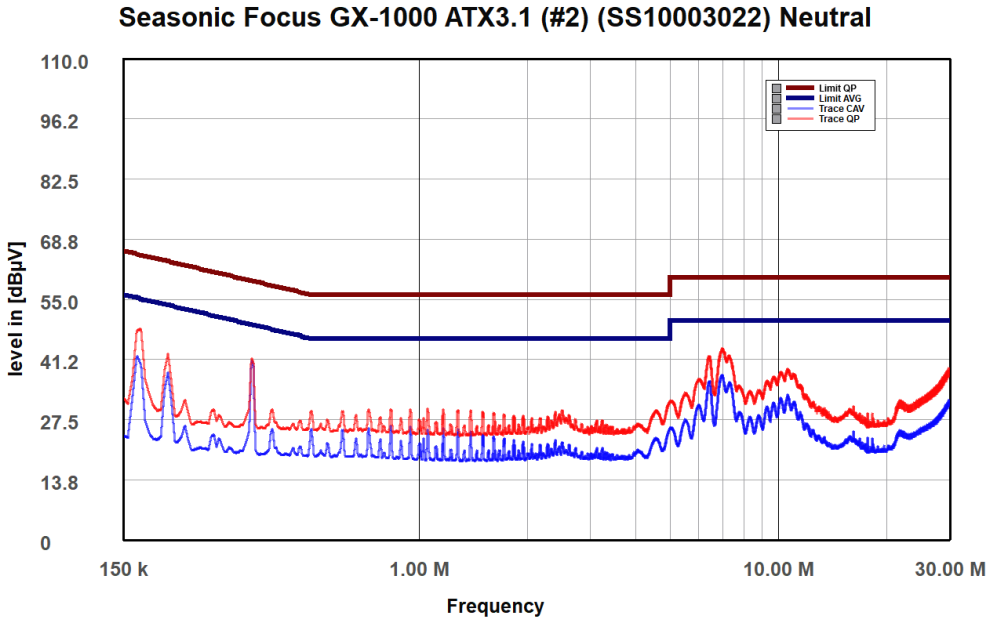
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	0 RPM · <6.0 dB(A) · 36.3 °C	0 RPM · <6.0 dB(A) · 46.1 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 36.7 °C	0 RPM · <6.0 dB(A) · 48.2 °C	fan off in both
50%	399 RPM · <6.0 dB(A) · 30.2 °C	444 RPM · <6.0 dB(A) · 42.1 °C	<6.0 in both
100%	1212 RPM · 34.9 dB(A) · 30.8 °C	1468 RPM · 40.1 dB(A) · 45.9 °C	**+5.2 dB(A)**

INFO

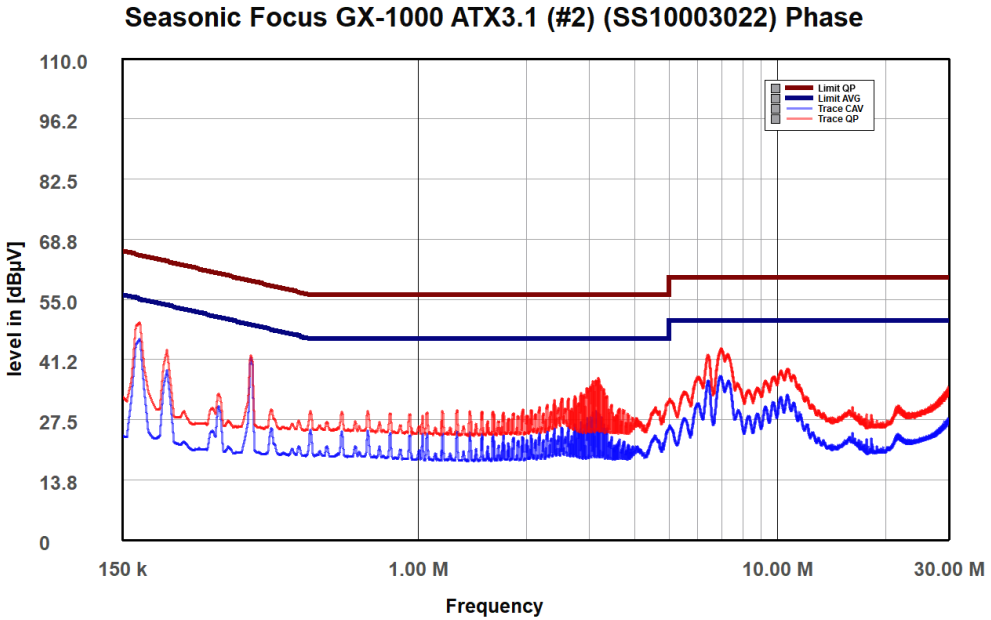
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative of how the fan behaves when it is hot. "<6.0" is the floor of our sound meter: 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



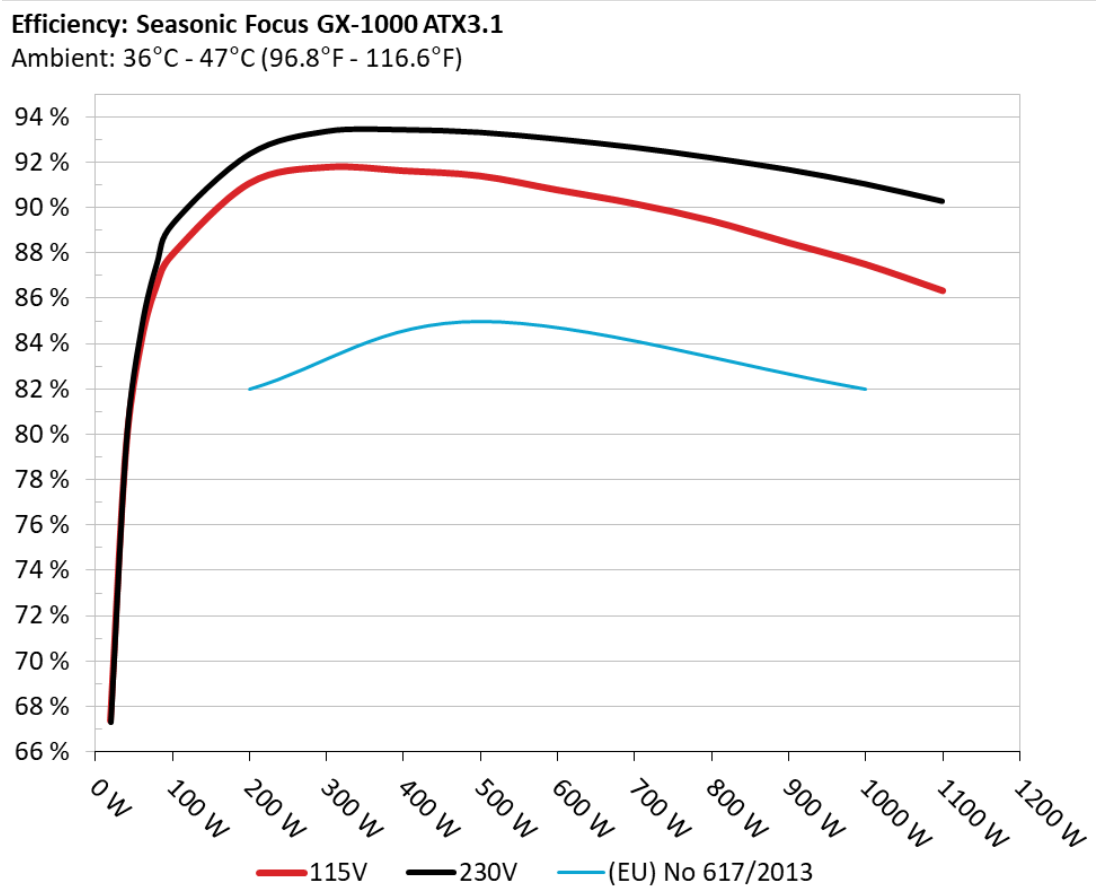
NEUTRAL



PHASE

Indicative Performance

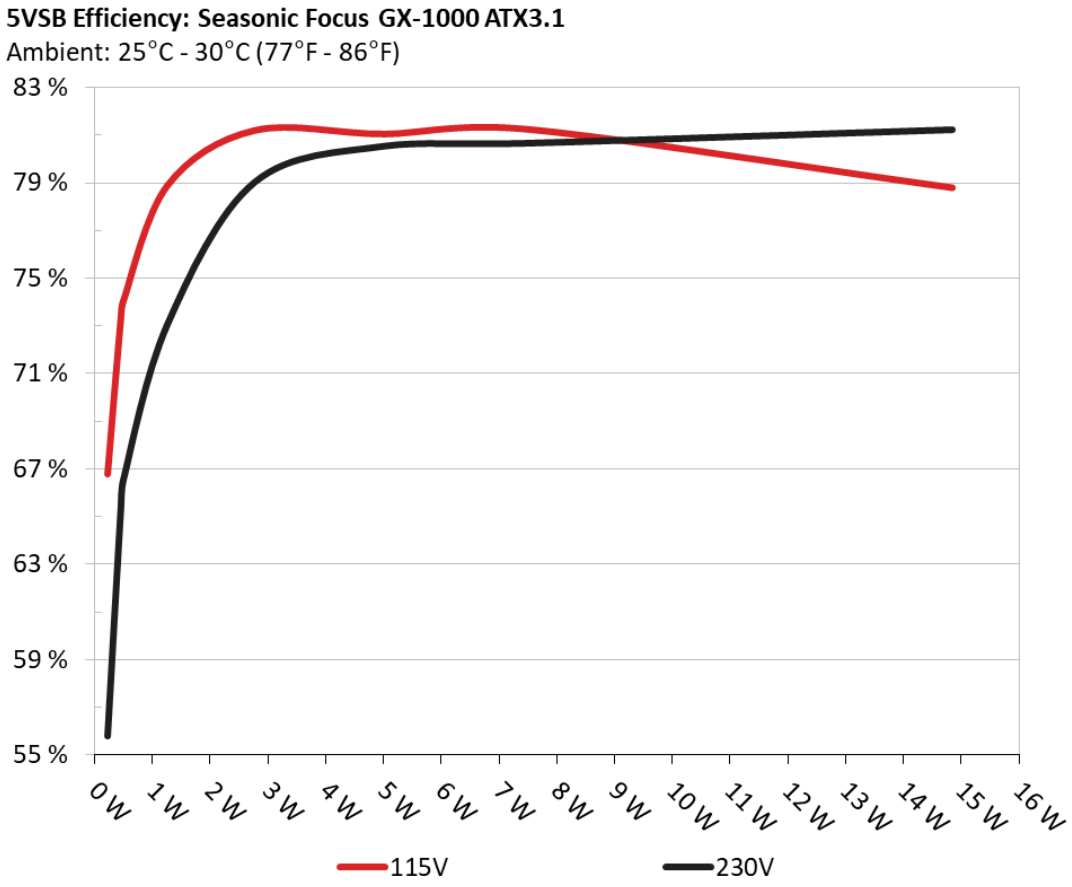
Efficiency under high ambient temperature



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**	0.228W	66.786%	0.048
	5.059V	0.342W		114.89V
2	**0.09A**	0.455W	73.278%	0.085
	5.058V	0.621W		114.87V
3	**0.55A**	2.773W	81.19%	0.319
	5.041V	3.416W		114.88V
4	**1A**	5.025W	81.039%	0.407
	5.024V	6.201W		114.87V
5	**1.5A**	7.511W	81.234%	0.444
	5.006V	9.246W		114.87V
6	**3.001A**	14.85W	78.789%	0.505
	4.949V	18.848W		114.87V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.228W	55.808%	0.017
	5.06V	0.409W		229.89V
2	**0.09A**	0.455W	65.239%	0.029
	5.058V	0.698W		229.89V
3	**0.55A**	2.773W	79.021%	0.133
	5.041V	3.509W		229.89V
4	**1A**	5.025W	80.534%	0.211
	5.024V	6.24W		229.89V
5	**1.5A**	7.51W	80.656%	0.274
	5.006V	9.311W		229.89V
6	**3.001A**	14.855W	81.22%	0.36
	4.951V	18.29W		229.89V

Protection Features

OCP (Normal @ 28.9°C)	12V: 105.4A (126.99%), 12.079V 5V: 29.5A (118%), 5.059V 3.3V: 36.3A (145.2%), 3.293V 5VSB: 6.5A (216.67%), 4.829V
OCP (Hot @ 42.1°C)	12V: 98A (118.07%), 12.101V 5V: 28.6A (114.4%), 5.068V 3.3V: 36.2A (144.8%), 3.3V 5VSB: 6.3A (210%), 4.824V
OPP (Normal @ 27°C)	1293.07W (129.31%)
OPP (Hot @ 43.1°C)	1212.08W (121.21%)
OTP	✓ (117°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**	**1.988A**	**1.995A**	**0.996A**	99.989	87.928%	0	<6.0	47.81°C	0.938
	12.095V	5.03V	3.309V	5.019V	113.719				40.24°C	114.84V
20%	**13.956A**	**2.98A**	**2.994A**	**1.2A**	199.967	91.084%	0	<6.0	48.4°C	0.962
	12.115V	5.033V	3.307V	5.002V	219.542				40.65°C	114.81V
30%	**21.821A**	**3.479A**	**3.494A**	**1.403A**	299.984	91.799%	0	<6.0	49.59°C	0.974
	12.096V	5.03V	3.305V	4.991V	326.785				41.2°C	114.78V
40%	**29.619A**	**3.978A**	**3.995A**	**1.608A**	399.491	91.645%	411	<6.0	41.66°C	0.98
	12.097V	5.028V	3.304V	4.976V	435.919				48.11°C	114.74V
50%	**37.094A**	**4.975A**	**4.997A**	**1.815A**	499.218	91.416%	428	<6.0	42.2°C	0.983
	12.097V	5.025V	3.302V	4.961V	546.092				49.13°C	114.71V
60%	**44.633A**	**5.972A**	**6A**	**2A**	599.645	90.796%	451	<6.0	42.76°C	0.985
	12.097V	5.024V	3.3V	4.946V	660.433				51.41°C	114.67V
70%	**52.108A**	**6.969A**	**7.004A**	**2.232A**	699.491	90.194%	688	17.1	43.21°C	0.988
	12.098V	5.023V	3.298V	4.929V	775.537				50.51°C	114.64V
80%	**59.655A**	**7.965A**	**8.007A**	**2.339A**	799.498	89.437%	891	25.7	43.86°C	0.99
	12.096V	5.021V	3.297V	4.918V	893.926				51.64°C	114.6V
90%	**67.533A**	**8.464A**	**8.495A**	**2.447A**	899.308	88.468%	1093	31.9	44.3°C	0.991
	12.095V	5.021V	3.295V	4.905V	1016.537				52.6°C	114.56V
100%	**75.216A**	**8.964A**	**9.015A**	**3.079A**	999.32	87.517%	1518	41	45.14°C	0.992
	12.094V	5.019V	3.294V	4.873V	1141.855				53.14°C	114.52V
110%	**82.839A**	**9.963A**	**10.114A**	**3.084A**	1099.932	86.347%	1992	48.2	46.65°C	0.993
	12.091V	5.018V	3.292V	4.864V	1273.849				53.04°C	114.47V
CL1	**0.116A**	**14.961A**	**15.041A**	**0A**	126.296	83.69%	475	<6.0	40.62°C	0.949
	12.120V	5.033V	3.297V	5.043V	150.909				49.84°C	114.82V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL2	**0.114A**	**24.704A**	**0A**	**0A**	126.235	82.135%	716	18.2	41.52°C	0.95
	12.113V	5.054V	3.296V	5.047V	153.695				47.37°C	114.82V
CL3	**0.114A**	**0A**	**24.956A**	**0A**	83.88	75.313%	715	18.2	40.31°C	0.938
	12.108V	5.03V	3.306V	5.047V	111.375				45.93°C	114.84V
CL4	**82.740A**	**0A**	**0A**	**0A**	999.875	88.284%	1386	38.7	45.74°C	0.992
	12.085V	5.029V	3.305V	4.995V	1132.566				51.5°C	114.52V

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%	**6.484A**	**1.988A**	**1.995A**	**0.997A**	100.009	88.937%	0	<6.0	46.12°C	0.844
	12.092V	5.029V	3.308V	5.018V	112.446				40.48°C	229.88V
20%	**13.956A**	**2.981A**	**2.994A**	**1.2A**	199.999	92.362%	0	<6.0	48.15°C	0.918
	12.117V	5.032V	3.307V	5.001V	216.549				40.68°C	229.85V
30%	**21.826A**	**3.48A**	**3.496A**	**1.403A**	300.02	93.365%	0	<6.0	49.86°C	0.943
	12.094V	5.028V	3.304V	4.99V	321.336				41.16°C	229.84V
40%	**29.629A**	**3.979A**	**3.996A**	**1.608A**	399.552	93.436%	407	<6.0	41.6°C	0.956
	12.095V	5.026V	3.303V	4.975V	427.618				44.47°C	229.82V
50%	**37.099A**	**4.976A**	**4.998A**	**1.815A**	499.255	93.32%	444	<6.0	42.08°C	0.961
	12.096V	5.024V	3.301V	4.96V	535.118				45.63°C	229.81V
60%	**44.637A**	**5.973A**	**6.001A**	**2A**	599.668	93.026%	476	<6.0	42.87°C	0.966
	12.097V	5.023V	3.299V	4.946V	644.626				47.05°C	229.79V
70%	**52.113A**	**6.97A**	**7.006A**	**2.232A**	699.509	92.658%	685	17	43.06°C	0.97
	12.097V	5.022V	3.298V	4.929V	754.929				46.87°C	229.78V
80%	**59.657A**	**7.966A**	**8.009A**	**2.339A**	799.517	92.203%	887	25.6	43.52°C	0.974
	12.096V	5.021V	3.296V	4.917V	867.133				47.54°C	229.76V
90%	**67.537A**	**8.467A**	**8.498A**	**2.446A**	899.318	91.682%	1059	31.1	44°C	0.976
	12.095V	5.019V	3.294V	4.905V	980.909				48.35°C	229.74V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	**75.220A**	**8.967A**	**9.017A**	**3.078A**	999.32	91.05%	1468	40.1	45.9°C	0.978
	12.093V	5.018V	3.293V	4.874V	1097.555				50.08°C	229.72V
110%	**82.840A**	**9.964A**	**10.115A**	**3.083A**	1099.924	90.287%	1996	48.3	46.03°C	0.98
	12.091V	5.018V	3.292V	4.865V	1218.25				50.5°C	229.7V
CL1	**0.114A**	**14.957A**	**15.042A**	**0A**	126.289	84.743%	478	<6.0	41.02°C	0.884
	12.119V	5.035V	3.297V	5.043V	149.025				47.87°C	229.86V
CL2	**0.114A**	**24.709A**	**0A**	**0A**	126.226	83.233%	714	18.2	40.66°C	0.886
	12.111V	5.053V	3.296V	5.047V	151.654				45.53°C	229.86V
CL3	**0.114A**	**0A**	**24.956A**	**0A**	83.878	76.1%	715	18.2	40.3°C	0.842
	12.106V	5.029V	3.306V	5.047V	110.22				44.83°C	229.87V
CL4	**82.731A**	**0A**	**0A**	**0A**	999.852	91.688%	1388	38.7	45.71°C	0.978
	12.085V	5.028V	3.305V	4.996V	1090.497				49.63°C	229.72V

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**	**0.497A**	**0.498A**	**0.198A**	19.997	67.362%	0	<6.0	41.38°C	0.822
	12.089V	5.029V	3.313V	5.053V	29.688				36.55°C	114.86V
40W	**2.704A**	**0.696A**	**0.697A**	**0.297A**	39.999	79.257%	0	<6.0	41.52°C	0.891
	12.091V	5.031V	3.312V	5.048V	50.464				37.89°C	114.85V
60W	**4.178A**	**0.894A**	**0.897A**	**0.397A**	59.999	84.098%	0	<6.0	45.08°C	0.909
	12.093V	5.031V	3.312V	5.043V	71.342				38.12°C	114.86V
80W	**5.648A**	**1.093A**	**1.096A**	**0.496A**	79.937	86.595%	0	<6.0	47.43°C	0.924
	12.094V	5.032V	3.311V	5.039V	92.308				39.78°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	**1.229A**	**0.497A**	**0.498A**	**0.198A**	20.001	67.315%	0	<6.0	39.98°C	0.527
	12.082V	5.028V	3.312V	5.052V	29.711				36.04°C	229.9V
40W	**2.705A**	**0.696A**	**0.698A**	**0.297A**	40.002	79.602%	0	<6.0	41.54°C	0.669
	12.085V	5.029V	3.311V	5.047V	50.254				37.46°C	229.89V
60W	**4.180A**	**0.895A**	**0.897A**	**0.397A**	60.003	84.721%	0	<6.0	43.32°C	0.76
	12.087V	5.03V	3.311V	5.043V	70.824				38.87°C	229.89V
80W	**5.652A**	**1.093A**	**1.097A**	**0.496A**	79.952	87.558%	0	<6.0	43.84°C	0.81
	12.089V	5.03V	3.31V	5.038V	91.314				39.07°C	229.87V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	22.96mV	20.17mV	19.70mV	12.62mV	Pass
20% Load	22.50mV	19.60mV	18.11mV	12.88mV	Pass
30% Load	26.75mV	19.35mV	19.08mV	12.98mV	Pass
40% Load	27.52mV	19.61mV	18.83mV	13.44mV	Pass
50% Load	29.87mV	20.17mV	19.60mV	13.24mV	Pass
60% Load	28.54mV	19.66mV	20.16mV	14.06mV	Pass
70% Load	29.26mV	19.60mV	19.09mV	15.13mV	Pass
80% Load	30.08mV	21.50mV	19.91mV	14.73mV	Pass
90% Load	29.41mV	21.15mV	20.47mV	14.93mV	Pass
100% Load	29.97mV	20.48mV	18.31mV	14.15mV	Pass
110% Load	30.67mV	20.34mV	19.13mV	15.32mV	Pass
Crossload1	22.12mV	18.63mV	19.54mV	11.39mV	Pass
Crossload2	24.09mV	31.41mV	22.21mV	13.70mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	22.45mV	21.92mV	24.68mV	13.55mV	Pass
Crossload4	29.27mV	18.42mV	16.93mV	13.83mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	20.66mV	19.55mV	18.42mV	12.21mV	Pass
20% Load	22.81mV	19.04mV	17.91mV	12.47mV	Pass
30% Load	26.65mV	19.30mV	18.98mV	12.98mV	Pass
40% Load	29.36mV	20.12mV	18.78mV	13.29mV	Pass
50% Load	33.30mV	20.53mV	19.70mV	13.29mV	Pass
60% Load	30.23mV	19.76mV	18.93mV	14.01mV	Pass
70% Load	30.79mV	20.68mV	20.16mV	15.85mV	Pass
80% Load	30.08mV	22.07mV	21.85mV	15.09mV	Pass
90% Load	30.48mV	21.86mV	22.32mV	14.32mV	Pass
100% Load	30.22mV	20.13mV	20.28mV	14.35mV	Pass
110% Load	32.94mV	20.22mV	20.26mV	13.90mV	Pass
Crossload1	20.99mV	19.50mV	19.81mV	12.24mV	Pass
Crossload2	25.42mV	31.31mV	22.01mV	13.19mV	Pass
Crossload3	22.30mV	20.68mV	24.27mV	12.98mV	Pass
Crossload4	31.92mV	19.13mV	17.19mV	13.58mV	Pass

The results above are not used in the certification process

Seasonic Focus GX-1000 (ATX 3.1)



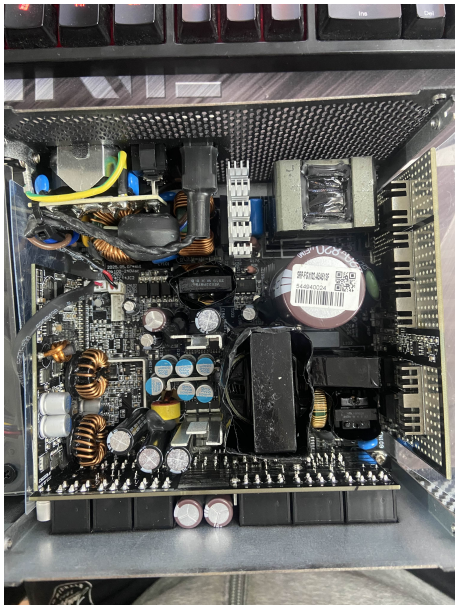
Top side



Power specifications label



Fan



PSU

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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