



ASRock Phantom Gaming PG-850PSF

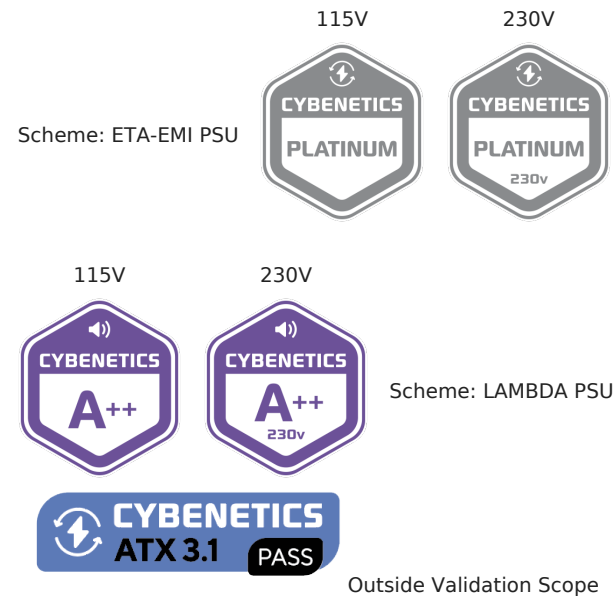
Serial Number S5331030008

Lab ID AR85003141

Certification ID 263141

Test Result Report ID: 26PS3141A

Certificate Issue Date: Feb 9, 2026



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	ASRock
Model	Phantom Gaming PG-850PSF
OEM/ODM	FSP
Serial Number	S5331030008
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	5.5-11

Rated Frequency (Hz)	50-60
Rated Power (W)	850
Operating Temperature (Continuous Full Load) (°C)	0 - 50
Type	SFX
Cable Design	Fully Modular
Warranty	10 years
Cybenetics Measurements	
Dimensions (W x H x D)	125 x 63.5 x 100mm
Weight	1.02 kg (2.25 lb)
Cooling	92mm Fluid Dynamic Bearing Fan (PLA09215S12H)
Semi-Passive Operation	✓
Cybenetics Testing Information	
Lab ID	AR85003141
Date of receipt	Jan 15, 2026
Testing Date	Feb 7, 2026
Report Issued Date	Feb 9, 2026
Engineer Name	Georgios Theodoros Sarimpalas
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 24 pin (300mm)	1	1	16-22AWG	Tinned Copper
4+4 pin EPS12V (400mm)	2	2	16AWG	Tinned Copper
6+2 pin PCIe (400mm)	2	2	16-18AWG	Tinned Copper
12+4 pin PCIe (400mm) (600W)	1	1	16-24AWG	Tinned Copper
SATA (445mm+115mm+115mm+100mm)	1	4	18AWG	Tinned Copper
4-pin Molex (445mm+115mm+115mm+100mm)	1	4	18AWG	Tinned Copper

Protection Features(Manufacturer)

Over Power Protection	✓
Over Current (+12V) Protection	✓
Over Temperature Protection	✓
Short Circuit Protection	✓
Surge Protection	✓
Inrush Current Protection	✓
Fan Failure Protection	✗

Power Specifications

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	70.9	3	0.3
	Watts	120		850	15	3.6
Total Max. Power (W)		850				

Parts Description

General Data	
Manufacturer (OEM)	FSP
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	NTC Thermistor SCK-056 (5 Ohm @ 25°C) & Relay
Bridge Rectifier	2x Yangjie GBU2506 (600V, 25A)
APFC MOSFETs	2x Infineon IPT60R075CFD7 (660V, 21A @ 100°C, Rds(on): 0.075Ohm)
APFC Boost Diode	1x
Bulk Cap(s)	2x Nippon Chemi-Con (420V, 270uF, 10000h @ 105°C, KXN) 1x Nippon Chemi-Con (420V, 120uF, 8000h @ 105°C, KXG)
Main Switchers	2x Infineon IPT60R075CFD7 (660V, 21A @ 100°C, Rds(on): 0.075Ohm)
APFC Controller	Champion CM6500UNX
Resonant Controller	Champion CM6901VNL

IC Driver	Novsense NSI6602
Topology	Primary side: APFC, Half-Bridge & LLC Resonant Converter Secondary side: [12V] Synchronous Rectification & [Minor Rails] DC-DC converters
Secondary Side	
+12V MOSFETs	6x
5V & 3.3V	DC-DC Converters: 4x Infineon BSC0901NS (30V, 94A @ 100°C, Rds(on): 1.9mOhm) PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic: N/A Polymer: 19x Nippon Chemi-Con 20x Polymer
Supervisor IC	no info
Fan Model	Power Logic PLA09215S12H (87mm, 12V, 0.55A, Fluid Dynamic Bearing Fan)
5VSB Circuit	
Rectifier	no info
Standby PWM Controller	1x Power Integrations INN3675C (InnoSwitch3-EP)

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)	90.371%
Average Noise Output (>1450 Load Combinations)	14.25dBA
Average PF (>1450 Load Combinations)	0.978
Efficiency With 10W ($\leq$ 500W) or 2% (>500W) Load	67.357%
Standby Power Consumption	0.0530W
Non-Accredited	
12V Ripple (Full Load)	37.72mV
5V Ripple (Full Load)	20.75mV
3.3V Ripple (Full Load)	18.78mV
5VSB Ripple (Full Load)	24.03mV
12V Load Regulation	1.05%
5V Load Regulation	0.56%
3.3V Load Regulation	1.47%
5VSB Load Regulation	3.64%
Inrush Current	32.600A

230V

Accredited	
Average Efficiency (>1450 load combinations)	92.026%
Average Noise Output (>1450 Load Combinations)	12.66dBA
Average PF (>1450 Load Combinations)	0.938
Efficiency With 10W ($\leq$ 500W) or 2% (>500W) Load	63.260%
Standby Power Consumption	0.1269W
Non-Accredited	
12V Ripple (Full Load)	42.96mV
5V Ripple (Full Load)	20.78mV
3.3V Ripple (Full Load)	18.51mV

5VSB Ripple (Full Load)		22.57mV
12V Load Regulation		1.00%
5V Load Regulation		0.54%
3.3V Load Regulation		1.41%
5VSB Load Regulation		3.54%
Inrush Current		66.750A
12V Transient Response (200%)		11.55V
5V Transient Response (200%)		5.057V
3.3V Transient Response (200%)		3.219V
5VSB Transient Response (200%)		4.877V
Hold-Up Time & PWR_OK Signal		17.50ms
AC Loss to PWR_OK Hold Up Time		15.50ms
PWR_OK Inactive to DC Loss Delay		2.00ms
PSU Timings: T1 (20% / 100%)	55.0ms	50.0ms
PSU Timings: T3 (20% / 100%)	115.0ms	113.0ms
12V OCP (27.8°C / 42.0°C)	101.60A (143.30%), 12.053V	97.80A (137.94%), 12.063V
5V OCP (27.8°C / 42.0°C)	23.5A (117.50%), 5.14V	22.1A (110.50%), 5.146V
3.3V OCP (27.8°C / 42.0°C)	26.9A (134.50%), 3.252V	24.8A (124.00%), 3.255V
5VSB OCP (27.8°C / 42.0°C)	3.6A (120.00%), 4.754V *High Ripple (65.07mV)	3.4A (113.33%), 4.877V *High Ripple (63.79mV), Voltage Drop (4.735V @ 3.6A)
OPP (27.72°C / 43.21°C)	142.67%	139.97%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	17.5
AC Loss to PWR_OK Hold Up Time (ms)	15.5
PWR_OK Inactive to DC Loss Delay (ms)	2

Vampire Power

Tables

115V

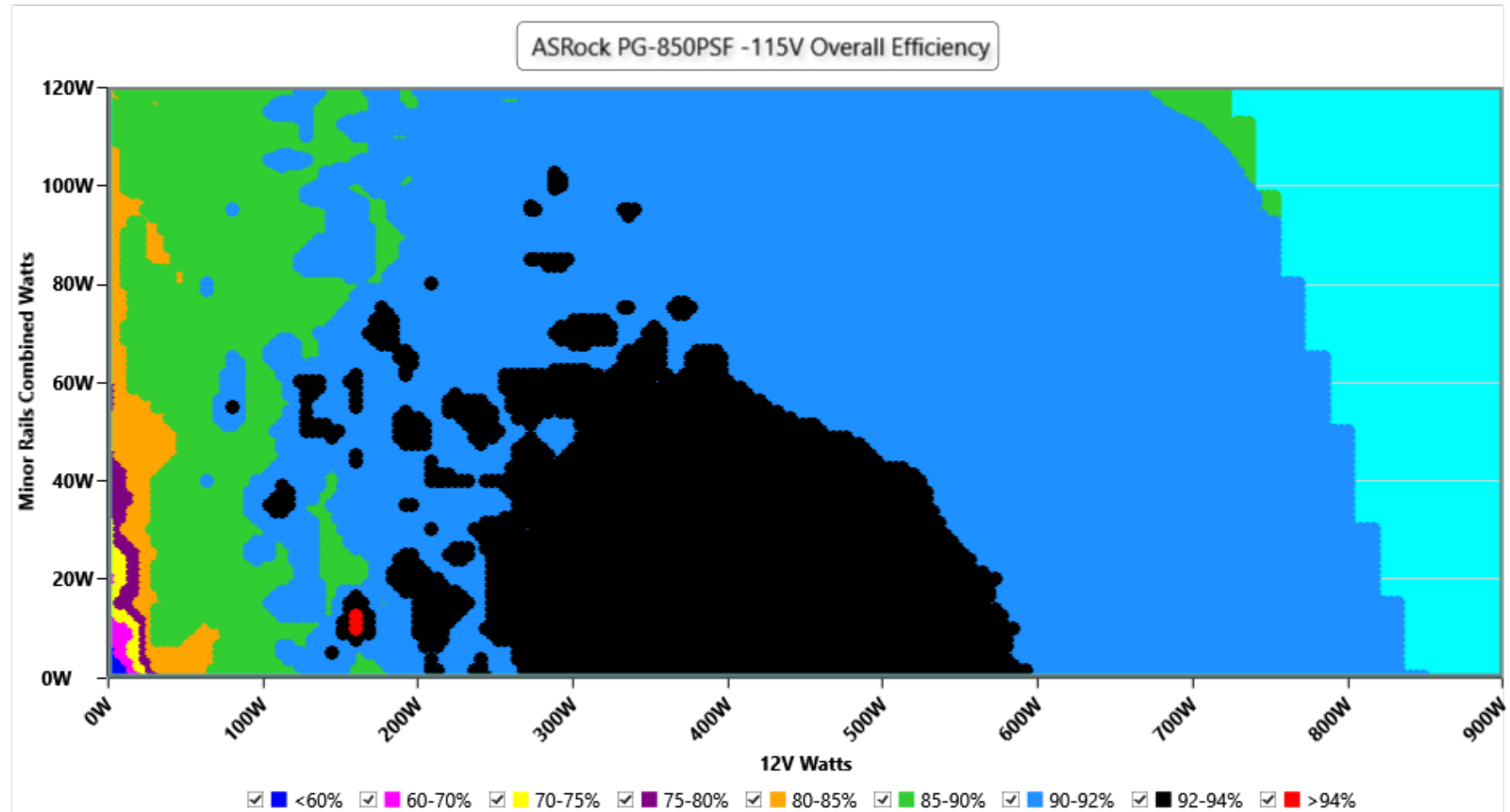
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.05 V	115.03 V	113.85 V	115.09 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.95 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.416	1.490	PASS
Mains Voltage THD:	0.13 %	0.10 %	N/A	0.16 %	2.00 %	PASS
Real Power:	0.053 W	0.007 W	N/A	0.092 W	N/A	N/A
Apparent Power:	9.978 W	9.957 W	N/A	9.998 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:	230.10 V	230.06 V	227.70 V	230.12 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:	0.127 W	0.090 W	N/A	0.188 W	N/A	N/A
Apparent Power:	32.632 W	32.602 W	N/A	32.663 W	N/A	N/A
Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A

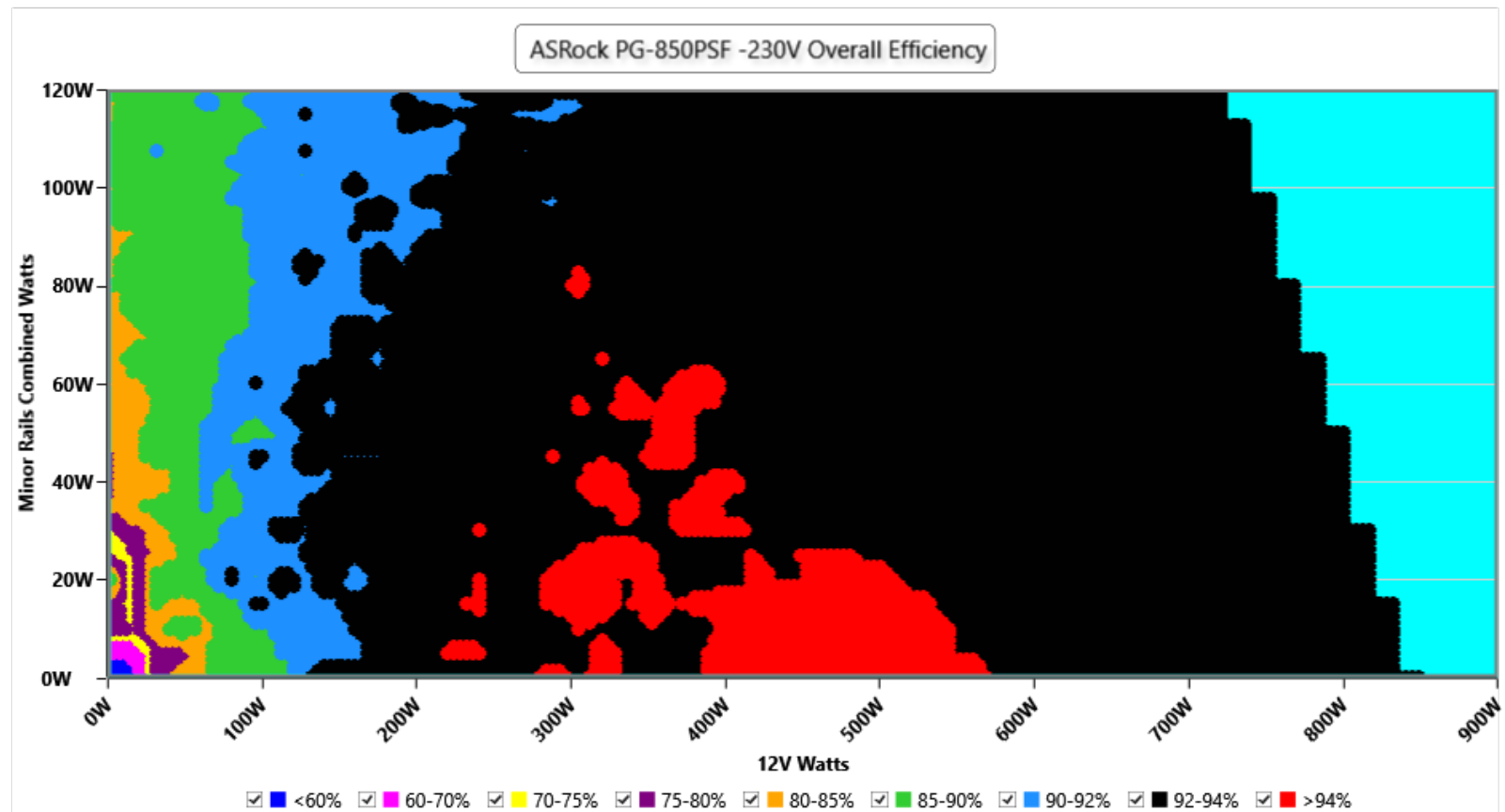
Efficiency Graph

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

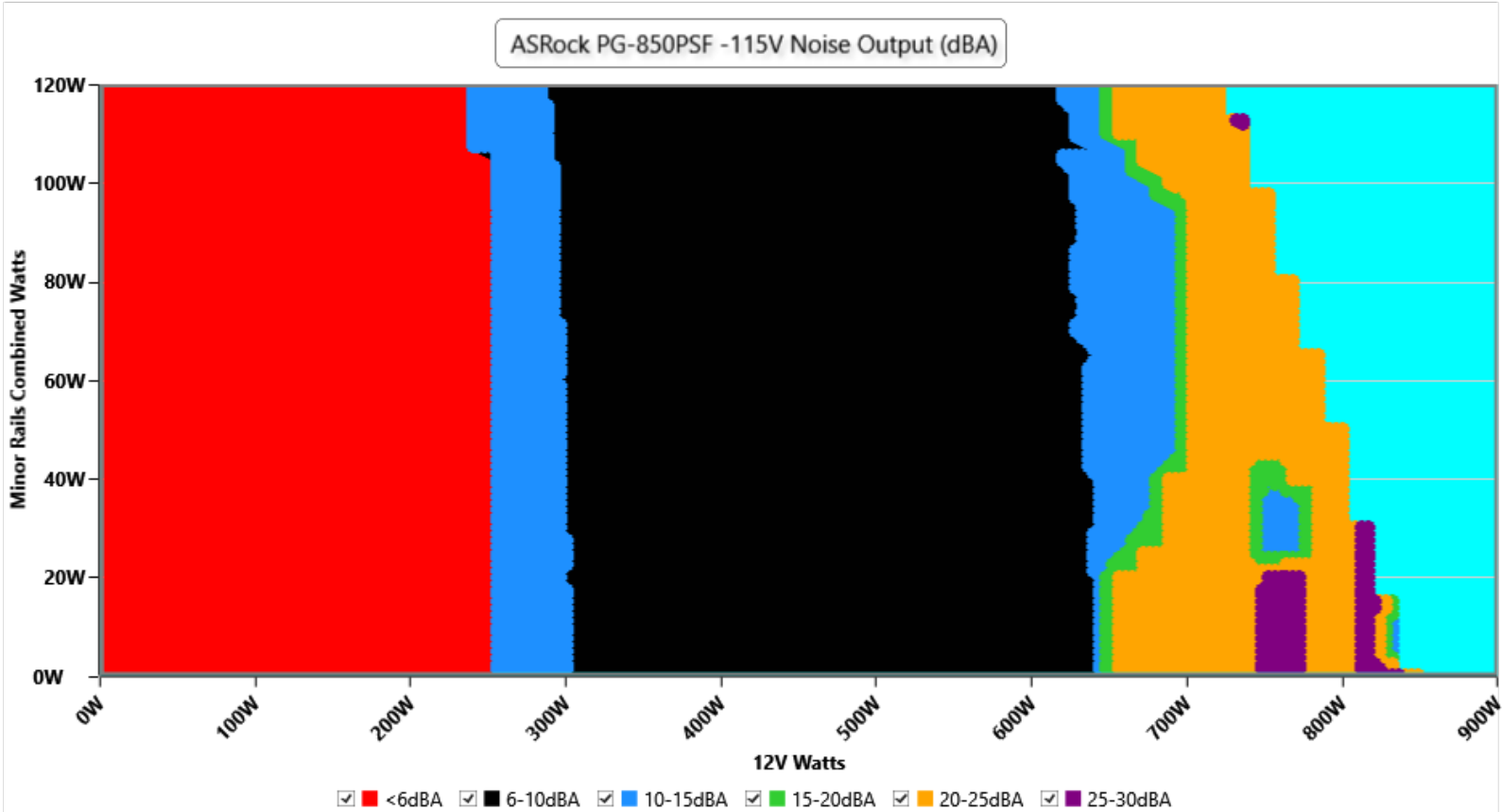


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This graph depicts the PSU's efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

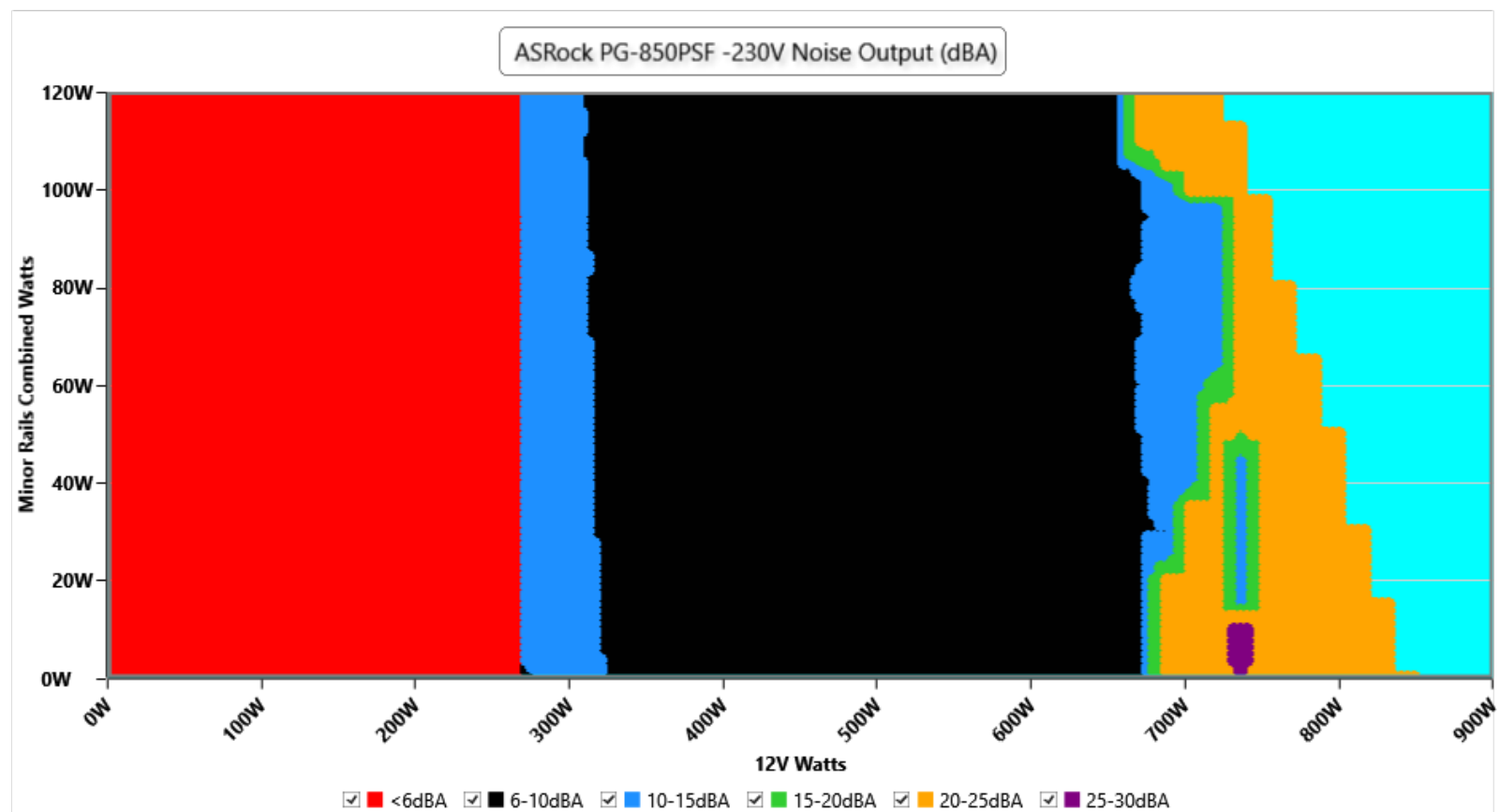
Noise Graph

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

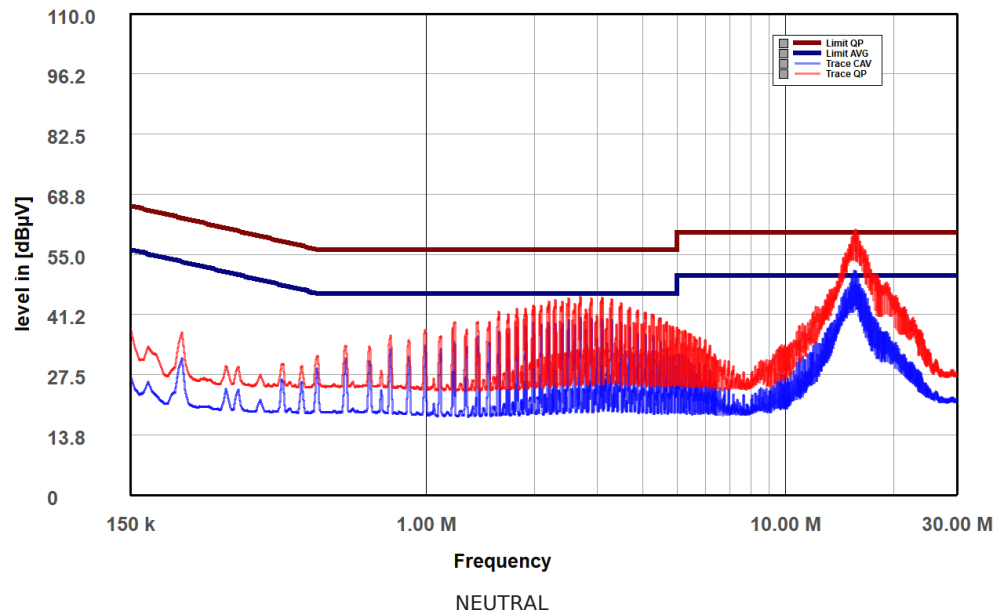


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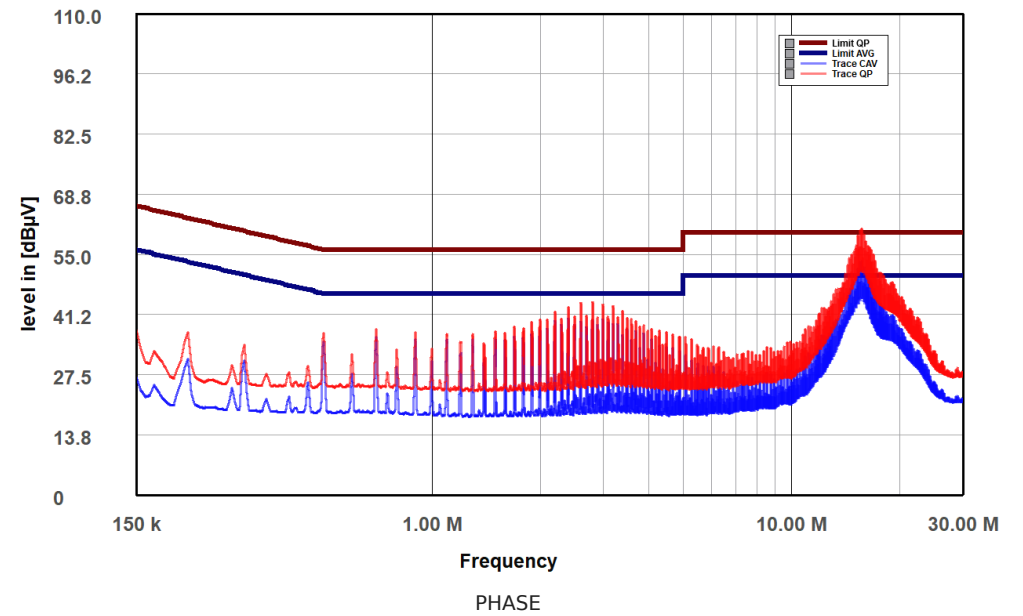
The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

Conducted Emissions EN 55032 & CISPR 32

ASRock Phantom Gaming 850W (AR85003141) Neutral



ASRock Phantom Gaming 850W (AR85003141) Phase

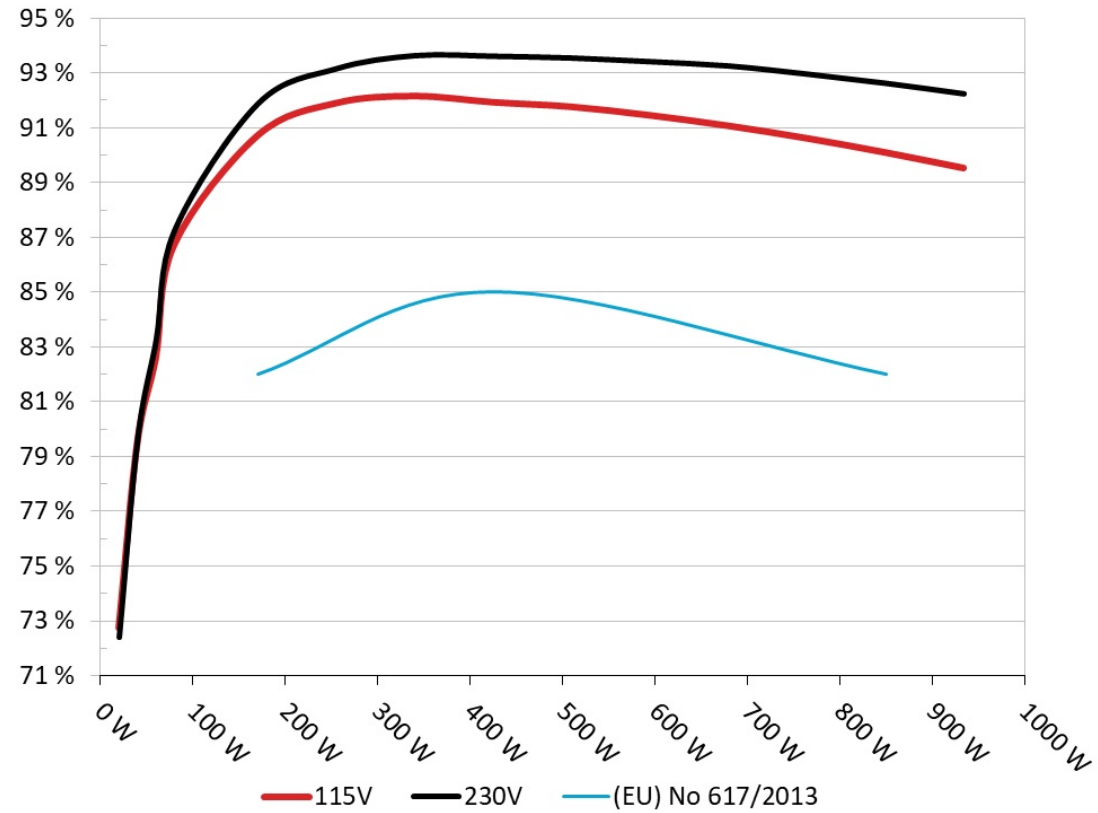


Indicative Performance

Efficiency under high ambient temperature

Efficiency: ASRock PG-850PSF

Ambient: 36°C - 47°C (96.8°F - 116.6°F)

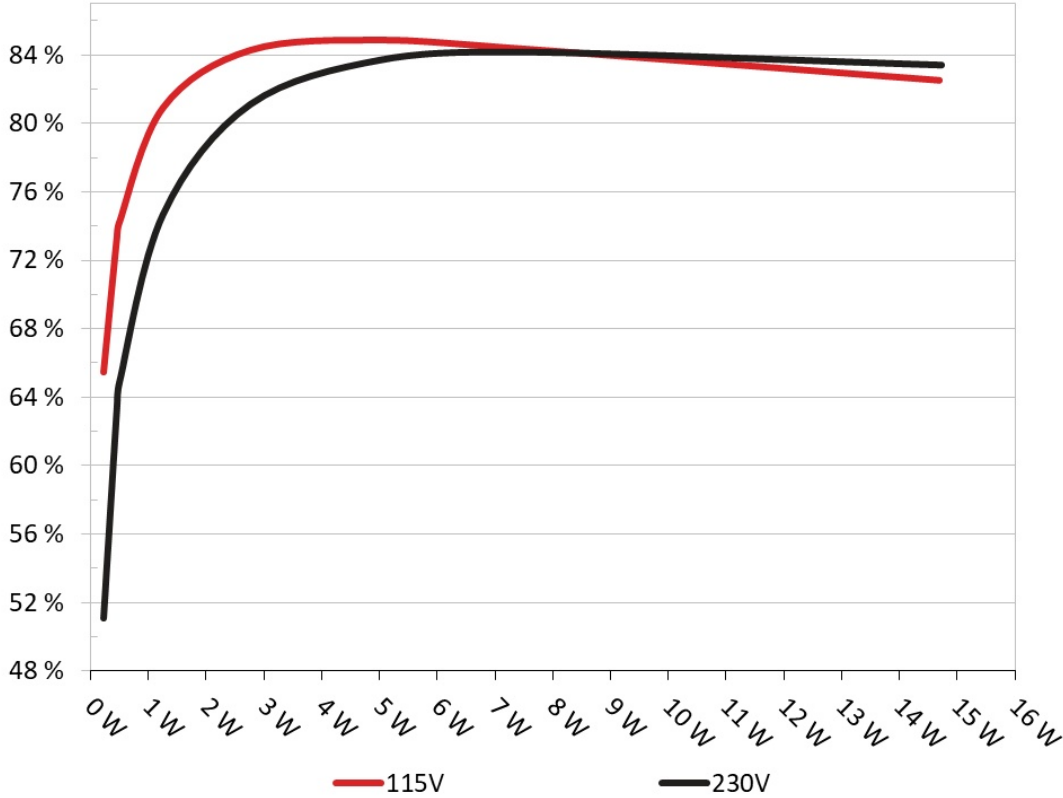


INFO

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

5VSB Efficiency: ASRock PG-850PSF
Ambient: 25°C - 30°C (77°F - 86°F)



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	65.452%	0.036
	5.068V	0.349W		115.04V
2	0.09A	0.454W	73.21%	0.063
	5.048V	0.62W		115.04V
3	0.55A	2.764W	84.277%	0.234
	5.026V	3.28W		115.04V
4	1A	5.013W	84.873%	0.299
	5.013V	5.907W		115.04V
5	1.5A	7.48W	84.358%	0.335
	4.986V	8.867W		115.04V
6	3A	14.689W	82.517%	0.379
	4.897V	17.801W		115.03V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.228W	51.113%	0.014
	5.073V	0.446W		229.99V
2	0.09A	0.455W	63.245%	0.023
	5.05V	0.719W		229.99V
3	0.55A	2.764W	81.113%	0.099
	5.026V	3.408W		229.99V
4	1A	5.012W	83.708%	0.156
	5.012V	5.988W		229.99V
5	1.5A	7.488W	84.174%	0.202
	4.992V	8.898W		229.99V
6	3A	14.728W	83.413%	0.275
	4.91V	17.654W		230V

Protection Features

OCP (Normal @ 27.8°C)	12V: 101.60A (143.30%), 12.053V 5V: 23.5A (117.50%), 5.14V 3.3V: 26.9A (134.50%), 3.252V 5VSB: 3.6A (120.00%), 4.754V *High Ripple (65.07mV)
OCP (Hot @ 42.0°C)	12V: 97.80A (137.94%), 12.063V 5V: 22.1A (110.50%), 5.146V 3.3V: 24.8A (124.00%), 3.255V 5VSB: 3.4A (113.33%), 4.877V *High Ripple (63.79mV), Voltage Drop (4.735V @ 3.6A)
OPP (Normal @ 27.7°C)	1212.692W (142.67%)
OPP (Hot @ 43.2°C)	1189.714W (139.97%)
OTP	✓ (106°C @ 12V Heatsink)
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%	5.235A	1.932A	1.992A	0.999A	85.002	85.948%	0	<6.0	51.69°C	0.97
	12.112V	5.176V	3.314V	5.007V	98.92				40.46°C	115.01V
20%	11.477A	2.9A	2.993A	1.201A	169.942	90.728%	0	<6.0	52.66°C	0.98
	12.114V	5.172V	3.308V	4.994V	187.3				40.78°C	114.98V
30%	18.076A	3.385A	3.495A	1.406A	254.953	91.919%	0	<6.0	53.57°C	0.98
	12.109V	5.17V	3.305V	4.978V	277.436				41.17°C	114.95V
40%	24.683A	3.87A	3.999A	1.611A	340.042	92.177%	0	<6.0	56.13°C	0.979
	12.107V	5.168V	3.301V	4.966V	368.929				41.52°C	114.92V
50%	30.923A	4.84A	5.006A	1.818A	424.846	91.953%	1100	10.8	42.16°C	0.983
	12.106V	5.166V	3.296V	4.951V	462.017				69.28°C	114.9V
60%	37.158A	5.813A	6.018A	2A	509.262	91.786%	1098	10.8	42.8°C	0.983
	12.099V	5.161V	3.29V	4.938V	554.833				64.76°C	114.86V
70%	43.469A	6.788A	7.033A	2.236A	594.709	91.475%	1095	10.8	43.16°C	0.983
	12.092V	5.157V	3.285V	4.919V	650.129				65.56°C	114.83V
80%	49.768A	7.758A	8.05A	2.342A	679.53	91.092%	1449	20.4	43.78°C	0.985
	12.089V	5.154V	3.279V	4.909V	745.984				65.38°C	114.8V
90%	56.483A	8.248A	8.548A	2.449A	764.958	90.634%	1804	27.6	44.1°C	0.986
	12.083V	5.152V	3.276V	4.9V	844.01				62.98°C	114.77V
100%	62.936A	8.738A	9.079A	3.086A	849.768	90.116%	2100	32.2	45.67°C	0.987
	12.077V	5.149V	3.272V	4.86V	942.967				62.35°C	114.74V
110%	69.263A	9.717A	10.198A	3.089A	934.345	89.548%	2619	39.1	46.44°C	0.987
	12.071V	5.145V	3.265V	4.856V	1043.4				62.23°C	114.7V
CL1	0.116A	14.001A	14.601A	0A	121.294	83.995%	1097	10.8	40.14°C	0.977
	12.122V	5.156V	3.267V	5.043V	144.62				57.05°C	114.99V

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	13.985A	0A	0A	73.582	82.274%	1088	10.7	40.54°C	0.964
	12.123V	5.162V	3.317V	5.047V	89.557				52.63°C	115.01V
CL3	0.116A	0A	20.279A	0A	67.393	81.421%	1084	10.7	40.09°C	0.959
	11.884V	5.176V	3.255V	5.045V	88.327				52.35°C	115.01V
CL4	70.355A	0A	0A	0A	849.504	90.958%	1800	27.5	45.79°C	0.985
	12.075V	5.168V	3.305V	5.021V	933.962				57.02°C	114.74V

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
10%	5.235A	1.932A	1.992A	0.999A	85.006	86.944%	0	<6.0	49.56°C	0.846
	12.112V	5.175V	3.313V	5.006V	97.773				40.42°C	229.99V
20%	11.481A	2.901A	2.993A	1.202A	169.953	91.89%	0	<6.0	50.08°C	0.923
	12.111V	5.171V	3.308V	4.994V	184.977				40.73°C	229.98V
30%	18.082A	3.386A	3.496A	1.407A	254.965	93.171%	0	<6.0	51.24°C	0.944
	12.106V	5.169V	3.304V	4.977V	273.659				41.05°C	229.96V
40%	24.691A	3.871A	3.999A	1.612A	340.056	93.651%	0	<6.0	53.63°C	0.953
	12.104V	5.168V	3.301V	4.965V	363.092				41.72°C	229.95V
50%	30.933A	4.84A	5.007A	1.818A	424.875	93.629%	0	<6.0	55.91°C	0.956
	12.102V	5.165V	3.296V	4.952V	453.784				42.44°C	229.93V
60%	37.160A	5.813A	6.018A	2A	509.288	93.564%	1097	10.8	42.92°C	0.958
	12.099V	5.162V	3.29V	4.939V	544.343				56.57°C	229.91V
70%	43.470A	6.787A	7.034A	2.236A	594.727	93.431%	1099	10.8	43.12°C	0.962
	12.091V	5.158V	3.285V	4.92V	636.524				56.35°C	229.9V
80%	49.806A	7.761A	8.051A	2.341A	679.494	93.275%	1089	10.7	43.51°C	0.964
	12.079V	5.152V	3.279V	4.912V	728.487				53.76°C	229.88V
90%	56.487A	8.248A	8.548A	2.448A	764.944	92.976%	1804	27.6	44.45°C	0.969
	12.081V	5.151V	3.275V	4.903V	822.732				53.76°C	229.87V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	62.942A	8.738A	9.078A	3.085A	849.746	92.641%	2101	32.2	45.49°C	0.969
	12.075V	5.148V	3.272V	4.863V	917.238				55.32°C	229.85V
110%	69.266A	9.717A	10.198A	3.088A	934.321	92.258%	2623	39.1	46.66°C	0.97
	12.070V	5.144V	3.265V	4.858V	1012.731				56.76°C	229.83V
CL1	0.116A	14.001A	14.599A	0A	121.288	84.968%	1098	10.8	40.19°C	0.891
	12.121V	5.156V	3.268V	5.043V	142.734				50.93°C	229.98V
CL2	0.114A	13.985A	0A	0A	73.576	83.272%	1090	10.7	41.25°C	0.811
	12.122V	5.162V	3.317V	5.047V	88.389				50.1°C	229.98V
CL3	0.117A	0A	20.275A	0A	67.393	77.031%	1083	10.7	40.91°C	0.805
	11.867V	5.177V	3.256V	5.045V	87.587				48.04°C	229.98V
CL4	70.357A	0A	0A	0A	849.491	93.397%	1800	27.5	45.66°C	0.968
	12.075V	5.166V	3.305V	5.022V	909.545				51.19°C	229.85V

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	0.483A	0.497A	0.199A	20.002	72.755%	0	<6.0	45.86°C	0.838
	12.087V	5.178V	3.32V	5.037V	27.636				36.88°C	115.03V
40W	2.692A	0.676A	0.696A	0.298A	39.999	79.52%	0	<6.0	48.53°C	0.929
	12.140V	5.178V	3.319V	5.035V	50.435				37.62°C	115.03V
60W	4.188A	0.869A	0.895A	0.397A	59.997	82.616%	0	<6.0	48.41°C	0.949
	12.066V	5.177V	3.318V	5.031V	72.679				38.28°C	115.02V
80W	5.686A	1.062A	1.094A	0.497A	79.943	86.746%	0	<6.0	48.82°C	0.963
	12.014V	5.176V	3.316V	5.026V	92.212				39.13°C	115.01V

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	1.228A	0.483A	0.497A	0.199A	20.004	72.415%	0	<6.0	38.04°C	0.432
	12.102V	5.176V	3.318V	5.035V	27.9				36.28°C	230V
40W	2.695A	0.676A	0.696A	0.298A	40.003	79.68%	0	<6.0	41.57°C	0.649
	12.131V	5.176V	3.318V	5.033V	50.27				37.97°C	229.99V
60W	4.208A	0.869A	0.895A	0.398A	60.002	83.267%	0	<6.0	44.38°C	0.765
	12.010V	5.176V	3.317V	5.03V	72.052				38.48°C	229.99V
80W	5.641A	1.062A	1.095A	0.497A	79.952	87.269%	0	<6.0	46.39°C	0.816
	12.111V	5.176V	3.316V	5.026V	91.82				39.19°C	229.99V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	40.47mV	19.11mV	18.57mV	22.66mV	Pass
20% Load	39.75mV	18.95mV	18.52mV	21.79mV	Pass
30% Load	38.17mV	18.70mV	17.85mV	22.92mV	Pass
40% Load	38.52mV	19.57mV	18.52mV	21.99mV	Pass
50% Load	38.98mV	21.51mV	23.12mV	24.09mV	Pass
60% Load	39.04mV	27.18mV	33.15mV	27.06mV	Pass
70% Load	41.34mV	30.75mV	35.30mV	29.41mV	Pass
80% Load	41.44mV	27.33mV	32.18mV	26.14mV	Pass
90% Load	43.18mV	23.55mV	22.76mV	24.19mV	Pass
100% Load	37.72mV	20.75mV	18.78mV	24.03mV	Pass
110% Load	42.92mV	19.27mV	19.52mV	22.89mV	Pass
Crossload1	35.61mV	17.33mV	17.13mV	16.26mV	Pass
Crossload2	36.48mV	19.41mV	18.06mV	17.29mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	64.16mV	18.90mV	20.92mV	17.55mV	Pass
Crossload4	41.25mV	18.70mV	19.01mV	16.94mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	38.52mV	18.80mV	17.70mV	23.27mV	Pass
20% Load	38.62mV	18.49mV	18.06mV	22.97mV	Pass
30% Load	39.81mV	17.83mV	17.44mV	22.86mV	Pass
40% Load	38.42mV	19.72mV	18.11mV	21.69mV	Pass
50% Load	38.58mV	26.62mV	27.78mV	22.86mV	Pass
60% Load	38.83mV	26.11mV	31.82mV	27.21mV	Pass
70% Load	38.88mV	23.91mV	28.60mV	28.64mV	Pass
80% Load	40.21mV	26.36mV	30.80mV	26.09mV	Pass
90% Load	41.08mV	23.04mV	21.85mV	24.09mV	Pass
100% Load	42.96mV	20.78mV	18.51mV	22.57mV	Pass
110% Load	44.01mV	18.82mV	19.14mV	22.62mV	Pass
Crossload1	34.94mV	17.40mV	17.43mV	15.87mV	Pass
Crossload2	27.88mV	19.31mV	18.26mV	17.04mV	Pass
Crossload3	63.90mV	19.16mV	18.93mV	17.75mV	Pass
Crossload4	40.31mV	19.79mV	19.06mV	16.73mV	Pass

The results above are not used in the certification process

ASRock Phantom Gaming PG-850PSF



Top side

ASRock PHANTOM GAMING					
Model: PG-850PSF ATX 9.1					
AC Input	100-240V~, 50-60Hz, 11-5.5A				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
Output Current	20A	20A	70.9A	0.5A	3A
Combined Power	120W	850W	3.6W	15W	
Total Output Power	850W				

SWITCHING POWER SUPPLY

Caution! Don't remove the cover by yourself!
 Warning! Do not touch the output terminals, only the parts were used for load any misconnection.
 Attention! Veuillez ne pas ouvrir le boîtier. Seul du personnel qualifié est autorisé à effectuer des réparations.
 Las componentes calientes no requieren ningún aviso.
 Attention! Hot parts after use, please wear gloves. Please service/replacement by qualified technician.
 Stromschaltteil! Gefahr! Nicht berühren! Nur geschultes Personal darf den Gehäuseschutz entfernen.
 Hot parts should be handled with care. Please wear gloves when service/replacement by qualified technician.
 注意! 電源ユニットの内部には高温の部品があります。修理や交換は、必ず適切な技術者に行ってください。
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CB RoHS HI-POT OK ATE OK QC PASS

P/N: 9PA850AA00 S/N: S5331030008

Power specifications label



Fan



PSU Internals

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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