



NEWGEN ST-850W

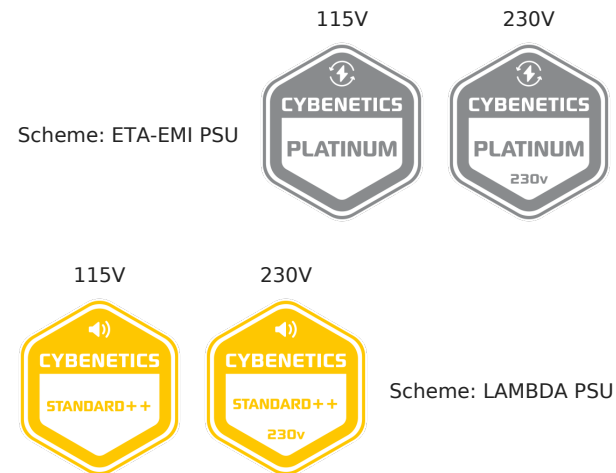
Serial Number -

Lab ID NG85002817

Certification ID 252817

Test Result Report ID: 25PS2817A

Certificate Issue Date: May 17, 2025



A handwritten signature in blue ink, likely belonging to Aristeidis Bitziopoulos.

Aristeidis Bitziopoulos, Certification Body General Manager

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	NEWGEN
Model	ST-850W
OEM/ODM	Kinpower
Serial Number	-
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	16
Rated Frequency (Hz)	50-60

Rated Power (W)	850
Operating Temperature (Continuous Full Load) (°C)	
Type	ATX12V
Cable Design	Fully Modular
Warranty	-
Cybenetics Measurements	
Dimensions (W x H x D)	
Weight	
Cooling	140mm Rifle Bearing Fan (EFS-14E12H)
Semi-Passive Operation	X
Cybenetics Testing Information	
Lab ID	NG85002817
Date of receipt	Apr 23, 2025
Testing Date	May 16, 2025
Report Issued Date	May 17, 2025
DUT Notes	The 5VSB rail has high ripple (>50mV). The +12V OCP under normal conditions had to be stopped due to high ripple (>200mV).
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 (595mm)	1	1	18-22AWG	No
4+4 pin EPS12V (700mm)	2	2	18AWG	No
6+2 pin PCIe (600mm+150mm)	2	4	18AWG	No
12+4 pin PCIe (600mm) (600W)	1	1	16-24AWG	No
SATA (450mm+155mm+155mm)	3	9	18AWG	No
4-pin Molex (450mm+155mm+155mm)	1	3	18AWG	No

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	70.8	3	0.3
	Watts	103		850	15	3.6
Total Max. Power (W)		850				

Parts Description

General Data	-
Manufacturer (OEM)	Kinpower
PCB Type	Double-Sided
Primary Side	-
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	1x NTC Thermistors MF72- 20D15 (20 Ohm) & Relay
Bridge Rectifier(s)	2x Yangjie GBUL2506 (600V, 25A @ 100°C (with heatsinks)
APFC MOSFETs	2x Fuxin FXN25S55GF (550V, 20A @ 100°C, Rds(on): 0.13Ohm)
APFC Boost Diode	1x Global Power G3S06510A (650V, 10A @ 150°C)
Bulk Cap(s)	1x Nippon Chemi-con (450V, 560uF, 2000h @ 105°C, KMZ)

Main Switchers	2x Sanrise Tech SRC60R140B (600V, 11.2A @ 100°C, Rds(on): 140mOhm)
APFC Controller	Champion CM6500UNX
Resonant Controller	Champion CM6901X
Topology	Primary side: APFC, Half-Bridge & LLC Resonant Converter Secondary side: [12V] Synchronous Rectification & [Minor Rails] DC-DC converters
Secondary Side	-
+12V MOSFETs	6x Alkaidsemi AKG40N018G (40V, 105A @ 100°C, Rds(on): 1.8mOhm)
5V & 3.3V	DC-DC Converters: 4x Excelliance EMB06N03HR (30V, 45A @ 100°C, Rds(on): 6mOhm) PWM Controller(s): 2x AT8853ZSPC
Filtering Capacitors	Electrolytic: 5x TK (@ 105°C, SZ) Polymer: 34x ChengX (PC Series)
Supervisor IC	IN1S429I - SCG
Fan Model	DWPH EFS-14E12H (140mm, 12V, 0.30A, Hydraulic Dynamic Bearing Fan)
5VSB Circuit	-
Rectifier	Dongke DK5V45R15S (45V, 15mOhm)
Standby PWM Controller	2x Fuxin FXI8252S

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	✓

Performance Summary

115V

Accredited	
Average Efficiency (>1450 load combinations)	89.950%

Average Noise Output (>1450 Load Combinations)	31.92dBA
Average PF (>1450 Load Combinations)	0.986
Efficiency With 10W ($\leq$ 500W) or 2% (>500W) Load	72.181%
Standby Power Consumption	0.0496W
Non-Accredited	
12V Ripple (Full Load)	32.47mV
5V Ripple (Full Load)	27.05mV
3.3V Ripple (Full Load)	25.13mV
5VSB Ripple (Full Load)	51.45mV
12V Load Regulation	1.04%
5V Load Regulation	0.84%
3.3V Load Regulation	1.47%
5VSB Load Regulation	3.54%
Inrush Current	13.200A

230V

Accredited	
Average Efficiency (>1450 load combinations)	91.853%
Average Noise Output (>1450 Load Combinations)	30.01dBA
Average PF (>1450 Load Combinations)	0.953
Efficiency With 10W ($\leq$ 500W) or 2% (>500W) Load	78.904%
Standby Power Consumption	0.0841W
Non-Accredited	
12V Ripple (Full Load)	32.47mV
5V Ripple (Full Load)	28.27mV
3.3V Ripple (Full Load)	26.07mV
5VSB Ripple (Full Load)	52.51mV
12V Load Regulation	1.01%
5V Load Regulation	0.80%
3.3V Load Regulation	1.37%
5VSB Load Regulation	3.48%
Inrush Current	23.100A

12V Transient Response (200%)	11.44V	
5V Transient Response (200%)	4.973V	
3.3V Transient Response (200%)	3.213V	
5VSB Transient Response (200%)	4.989V	
Hold-Up Time & PWR_OK Signal	16.40ms	
AC Loss to PWR_OK Hold Up Time	15.20ms	
PWR_OK Inactive to DC Loss Delay	1.20ms	
PSU Timings: T1 (20% / 100%)	38.0ms	39.0ms
PSU Timings: T3 (20% / 100%)	121.0ms	122.0ms
12V OCP (30.7°C / 43.0°C)	96.31A (136.03%), 12.052V	92.40A (130.51%), 12.052V
5V OCP (30.7°C / 43.0°C)	24A (120.00%), 4.974V	23.9A (119.50%), 4.958V
3.3V OCP (30.7°C / 43.0°C)	25A (125.00%), 3.26V	25A (125.00%), 3.252V
5VSB OCP (30.7°C / 43.0°C)	4.3A (143.33%), 4.998V	4.3A (143.33%), 4.995V
OPP (27.93°C / 42.33°C)	124.13%	119.43%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	16.4
AC Loss to PWR_OK Hold Up Time (ms)	15.2
PWR_OK Inactive to DC Loss Delay (ms)	1.2

Vampire Power

Tables

115V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.08 V	115.07 V	113.85 V	115.11 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	60.00 Hz	59.40 Hz	60.00 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.416	1.490	PASS

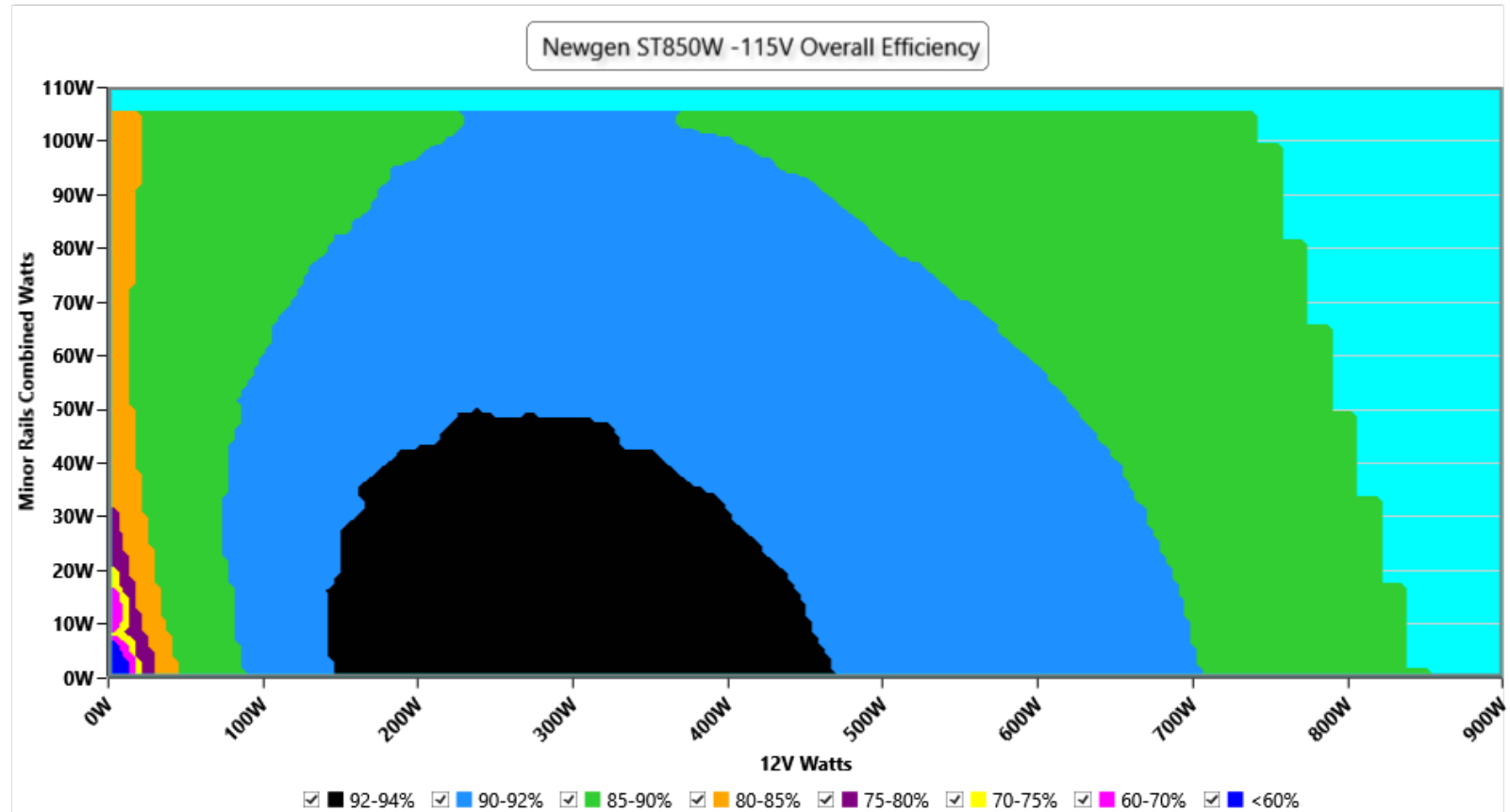
Mains Voltage THD:	0.15 %	0.06 %	N/A	0.23 %	2.00 %	PASS
Real Power:	0.050 W	0.044 W	N/A	0.057 W	N/A	N/A
Apparent Power:	2.748 W	2.740 W	N/A	2.759 W	N/A	N/A
Power Factor:	0.017	N/A	N/A	N/A	N/A	N/A

230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.25 V	230.24 V	227.70 V	230.28 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:	0.084 W	0.068 W	N/A	0.109 W	N/A	N/A
Apparent Power:	9.916 W	9.869 W	N/A	9.951 W	N/A	N/A
Power Factor:	0.008	N/A	N/A	N/A	N/A	N/A

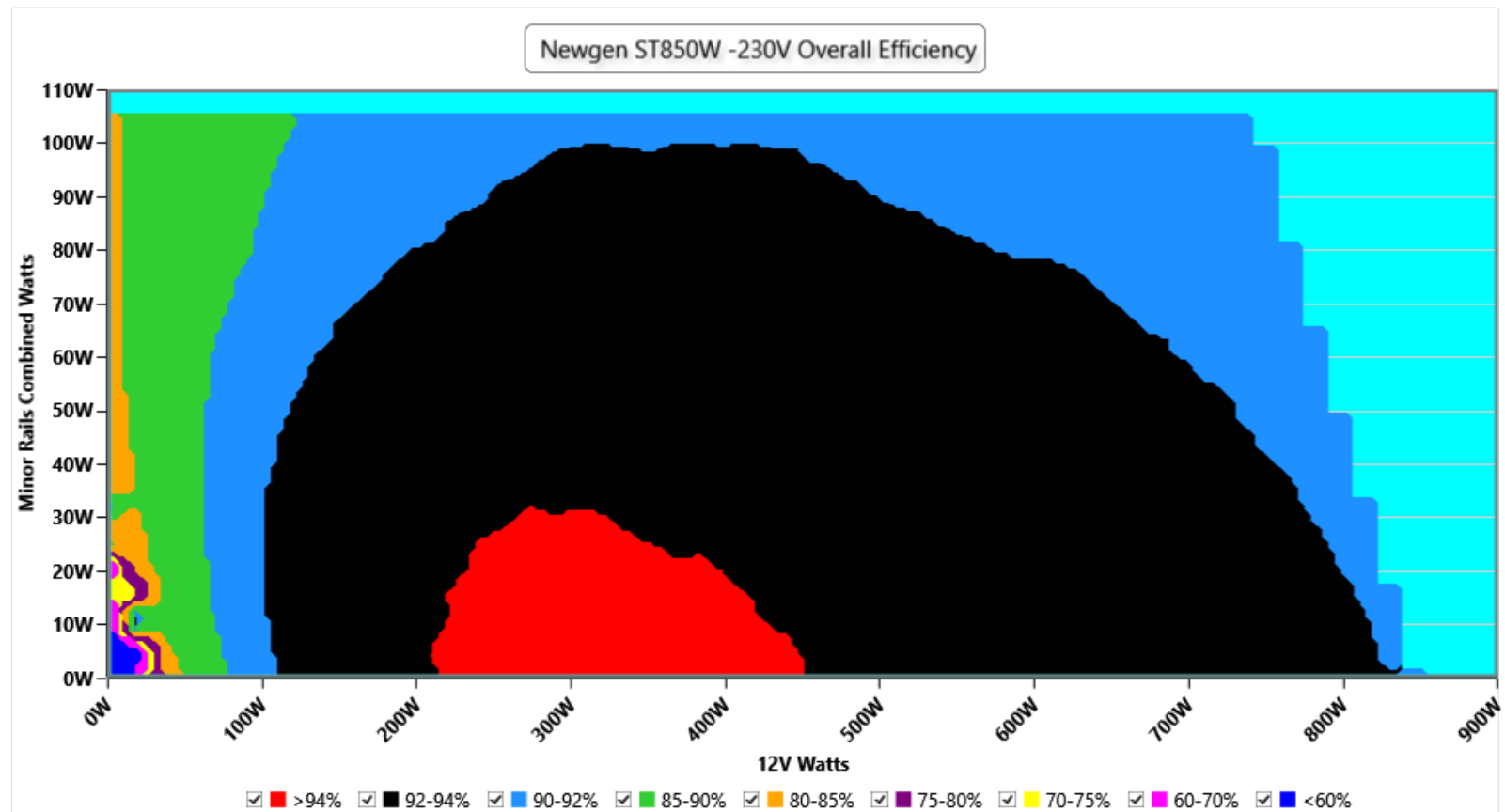
Efficiency Graph

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

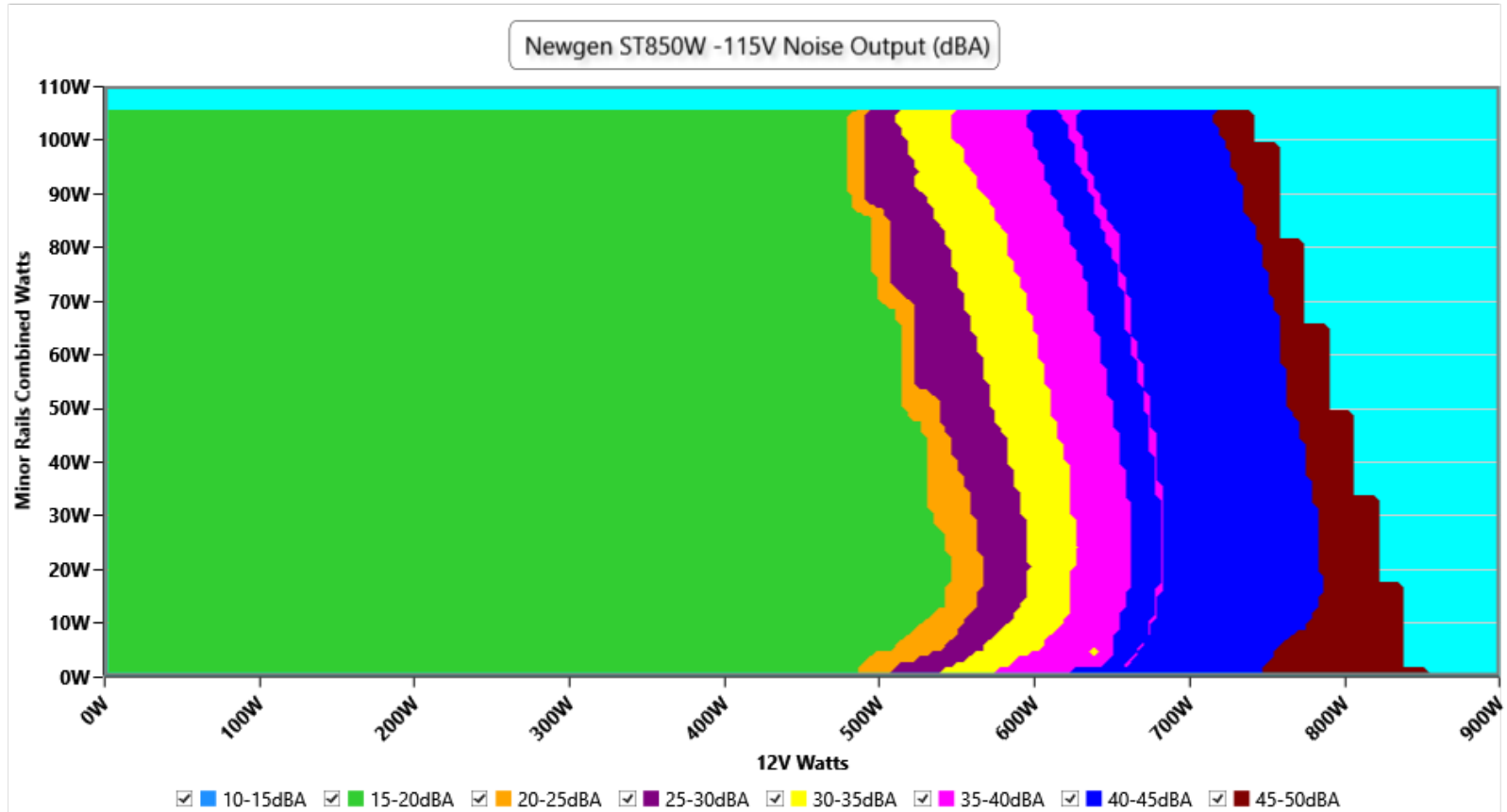


INFO

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

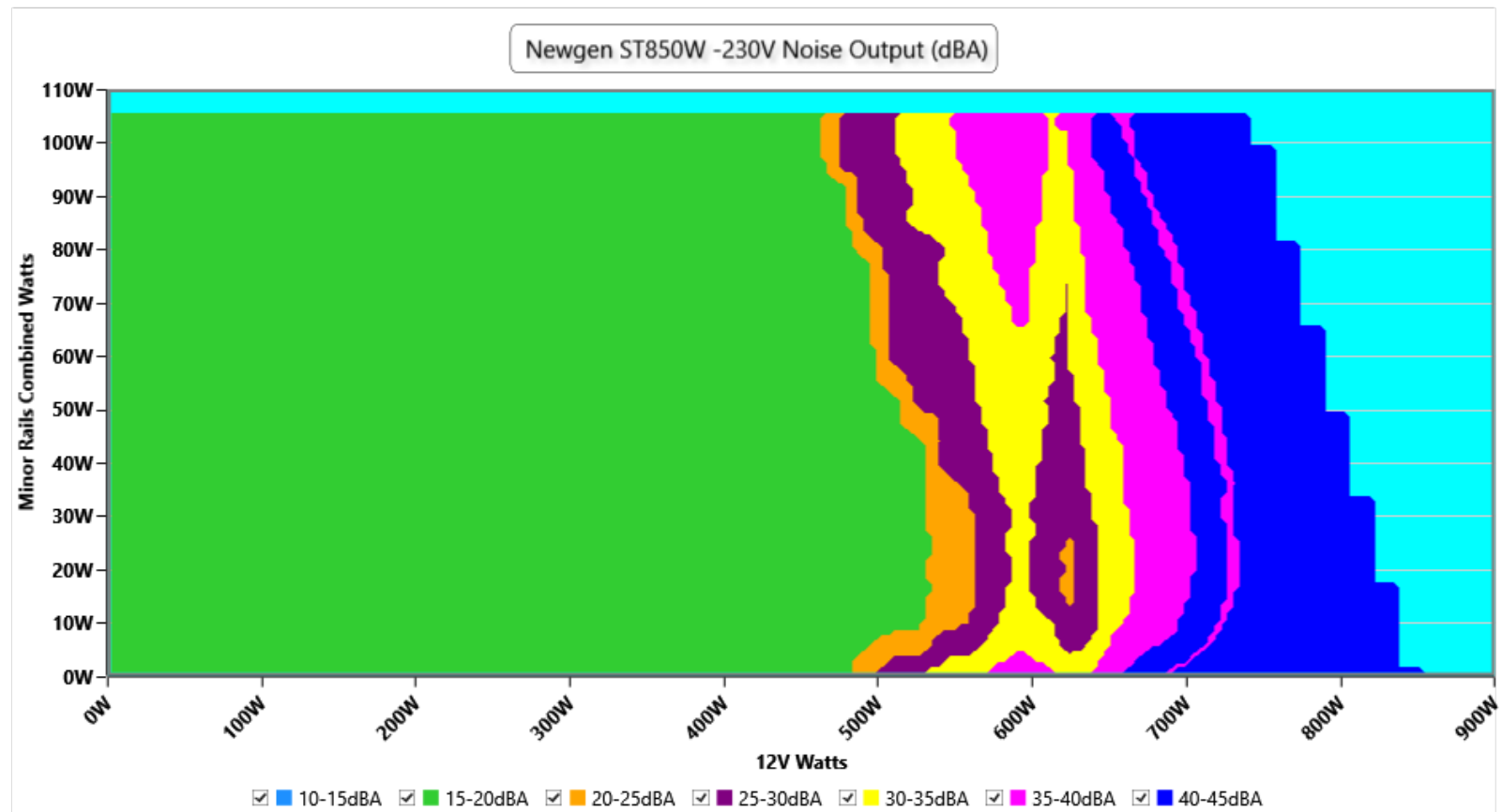
Noise Graph

115V



INFO

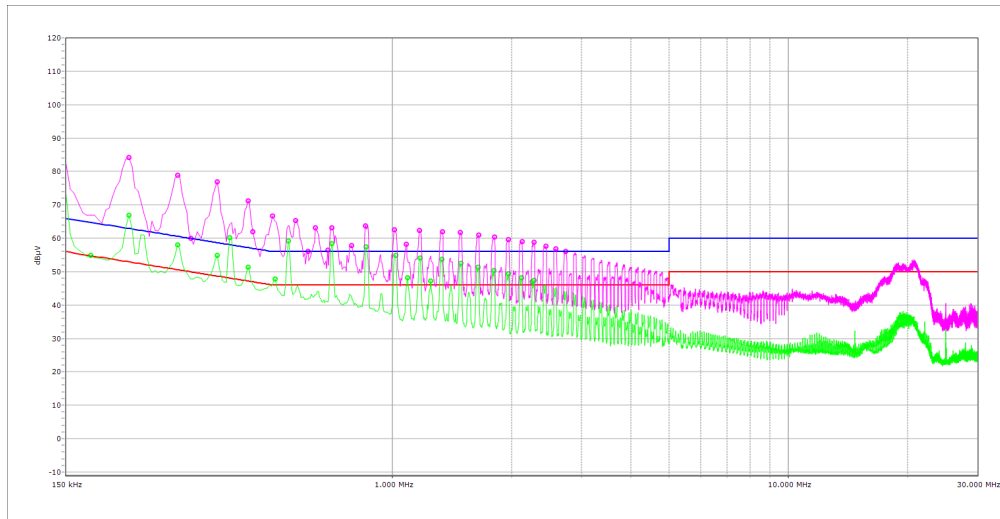
The PSU`s noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails



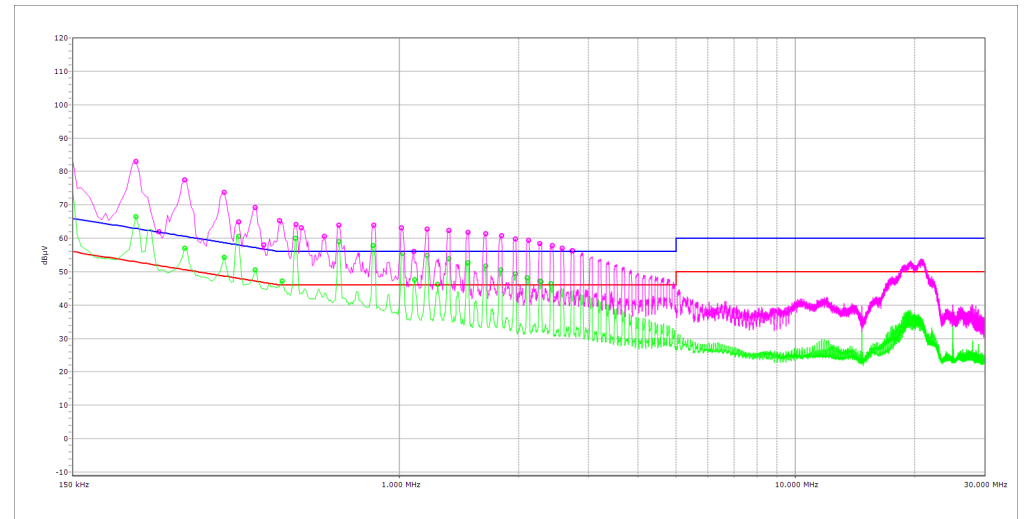
INFO

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

Conducted Emissions EN 55032 & CISPR 32



NEUTRAL



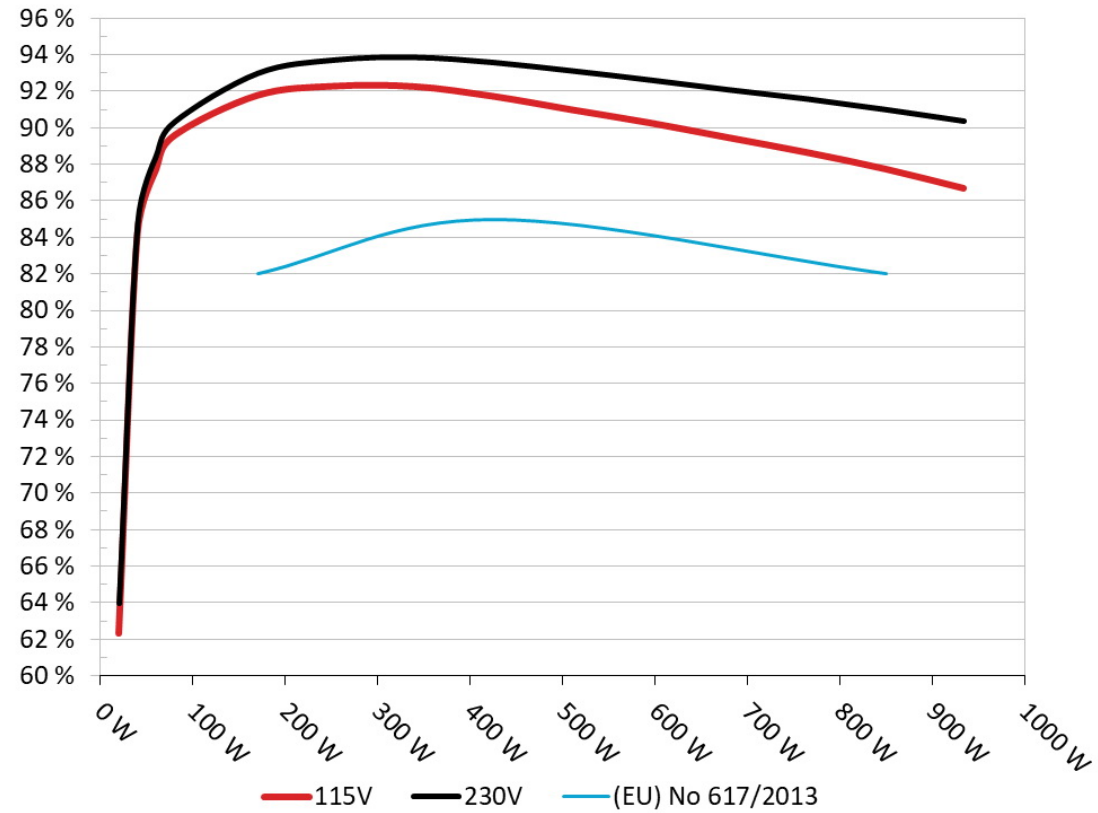
PHASE

Indicative Performance

Efficiency under high ambient temperature

Efficiency: Newgen ST850W

Ambient: 37°C - 47°C (98.6°F - 116.6°F)



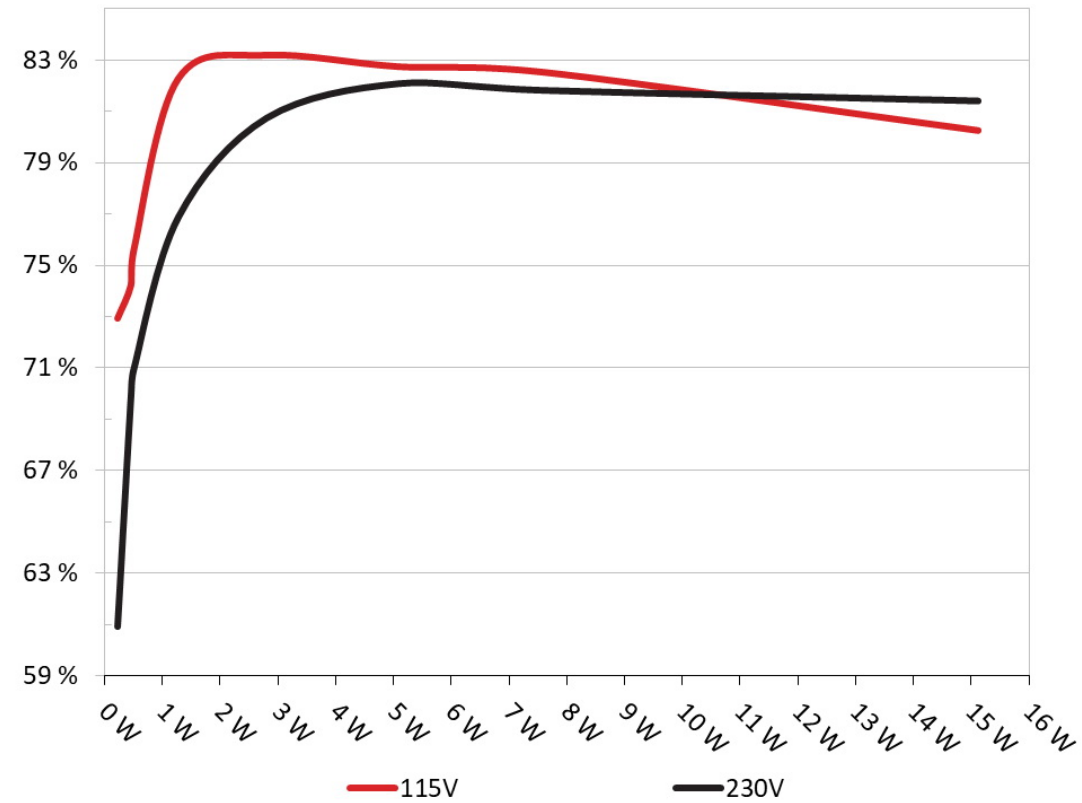
INFO

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: Newgen ST850W

Ambient: 34°C - 36°C (93.2°F - 96.8°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	0.231W	72.917%	0.086
	5.125V	0.25W		115.06V
2	0.09A	0.461W	74.207%	0.193
	5.124V	0.621W		115.06V
3	0.55A	2.811W	83.181%	0.446
	5.11V	3.38W		115.06V
4	1A	5.098W	82.732%	0.504
	5.097V	6.162W		115.06V
5	1.5A	7.624W	82.51%	0.532
	5.082V	9.24W		115.06V
6	3.001A	15.115W	80.244%	0.558
	5.037V	18.835W		115.05V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.231W	60.932%	0.038
	5.125V	0.379W		230.2V
2	0.09A	0.461W	69.857%	0.065
	5.124V	0.66W		230.2V
3	0.55A	2.811W	80.754%	0.262
	5.11V	3.481W		230.2V
4	1A	5.098W	82.096%	0.353
	5.097V	6.21W		230.2V
5	1.5A	7.624W	81.833%	0.405
	5.082V	9.316W		230.2V
6	3.001A	15.116W	81.418%	0.462
	5.038V	18.566W		230.2V

Protection Features

OCP (Normal @ 30.7°C)	12V: 96.31A (136.03%), 12.052V 5V: 24A (120.00%), 4.974V 3.3V: 25A (125.00%), 3.26V 5VSB: 4.3A (143.33%), 4.998V
OCP (Hot @ 43.0°C)	12V: 92.40A (130.51%), 12.052V 5V: 23.9A (119.50%), 4.958V 3.3V: 25A (125.00%), 3.252V 5VSB: 4.3A (143.33%), 4.995V
OPP (Normal @ 27.9°C)	1055.13W (124.13%)
OPP (Hot @ 42.3°C)	1015.14W (119.43%)
OTP	✓ (140°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%	5.216A	1.985A	1.991A	0.983A	85.007	89.206%	772	20.3	40.06°C	0.959
	12.154V	5.039V	3.315V	5.088V	95.293				41.41°C	115.04V
20%	11.452A	2.98A	2.991A	1.183A	169.951	91.762%	772	20.3	40.66°C	0.977
	12.142V	5.035V	3.31V	5.073V	185.209				42.74°C	115.01V
30%	18.046A	3.479A	3.493A	1.384A	254.961	92.269%	773	20.4	41.32°C	0.986
	12.130V	5.031V	3.307V	5.059V	276.318				44.05°C	114.98V
40%	24.661A	3.978A	3.996A	1.586A	340.052	92.245%	773	20.4	41.99°C	0.99
	12.118V	5.029V	3.303V	5.044V	368.64				46.12°C	114.95V
50%	30.928A	4.976A	5.003A	1.79A	424.892	91.716%	774	20.1	42.29°C	0.991
	12.105V	5.025V	3.299V	5.029V	463.27				48.73°C	114.92V
60%	37.182A	5.977A	6.013A	1.995A	509.432	90.98%	1289	36	42.77°C	0.992
	12.092V	5.021V	3.294V	5.013V	559.939				47.88°C	114.89V
70%	43.515A	6.978A	7.023A	2.202A	594.744	90.259%	1557	40.5	43.41°C	0.993
	12.079V	5.018V	3.29V	4.997V	658.934				50.49°C	114.86V
80%	49.861A	7.977A	8.036A	2.308A	679.566	89.453%	1782	44.6	43.85°C	0.994
	12.067V	5.014V	3.285V	4.985V	759.689				51.96°C	114.82V
90%	56.622A	8.483A	8.536A	2.414A	764.985	88.639%	1834	48	44.88°C	0.995
	12.053V	5.01V	3.28V	4.972V	863.031				55.17°C	114.79V
100%	63.132A	8.989A	9.068A	3.035A	849.79	87.739%	1831	47.9	45.54°C	0.996
	12.040V	5.006V	3.275V	4.943V	968.547				58.38°C	114.76V
110%	69.522A	9.996A	10.184A	3.041A	934.334	86.685%	1833	48	46.51°C	0.996
	12.026V	5.002V	3.27V	4.933V	1077.861				59.41°C	114.73V
CL1	0.116A	12.401A	12.46A	0.001A	104.303	83.027%	770	20	41.45°C	0.966
	12.137V	4.999V	3.282V	5.099V	125.626				52.24°C	115.03V

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	20.124A	0A	0.001A	101.372	81.101%	770	20	40.53°C	0.966
	12.145V	4.968V	3.304V	5.106V	124.997				48.64°C	115.03V
CL3	0.114A	0A	20.271A	0A	67.386	75.083%	771	20.2	40.35°C	0.954
	12.144V	5.002V	3.256V	5.102V	89.749				47.46°C	115.04V
CL4	70.486A	0A	0A	0.008A	849.579	88.732%	1845	48.1	46.35°C	0.996
	12.053V	5.018V	3.288V	5.048V	957.469				55.06°C	114.76V

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%	5.216A	1.985A	1.991A	0.983A	85.006	90.103%	771	20.2	40.06°C	0.852
	12.154V	5.038V	3.315V	5.088V	94.342				41.83°C	230.26V
20%	11.452A	2.98A	2.991A	1.183A	169.946	92.952%	771	20.2	40.99°C	0.925
	12.142V	5.034V	3.31V	5.073V	182.832				42.78°C	230.25V
30%	18.046A	3.479A	3.493A	1.384A	254.953	93.689%	772	20.3	41.38°C	0.95
	12.130V	5.031V	3.307V	5.059V	272.129				42.87°C	230.23V
40%	24.659A	3.978A	3.996A	1.586A	340.04	93.825%	773	20.4	41.62°C	0.962
	12.118V	5.028V	3.303V	5.045V	362.419				44.5°C	230.22V
50%	30.923A	4.976A	5.002A	1.79A	424.856	93.545%	773	20.4	42.42°C	0.97
	12.106V	5.025V	3.299V	5.03V	454.171				46.19°C	230.21V
60%	37.178A	5.976A	6.012A	1.995A	509.396	93.09%	1207	33.2	42.73°C	0.975
	12.093V	5.021V	3.294V	5.014V	547.209				47.29°C	230.2V
70%	43.507A	6.977A	7.022A	2.201A	594.709	92.583%	1539	39.8	43.47°C	0.978
	12.081V	5.018V	3.29V	4.999V	642.351				48.15°C	230.18V
80%	49.851A	7.976A	8.034A	2.307A	679.531	92.05%	1754	42.9	43.65°C	0.981
	12.069V	5.015V	3.286V	4.986V	738.222				48.75°C	230.17V
90%	56.607A	8.48A	8.53A	2.413A	764.947	91.547%	1830	47.6	44.5°C	0.983
	12.056V	5.012V	3.282V	4.974V	835.583				50.39°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%	63.115A	8.986A	9.061A	3.033A	849.757	90.966%	1829	47.6	45.1°C	0.984
	12.042V	5.008V	3.278V	4.946V	934.156				52.79°C	230.14V
110%	69.504A	9.992A	10.174A	3.04A	934.317	90.337%	1829	47.6	46.31°C	0.985
	12.029V	5.004V	3.273V	4.935V	1034.258				53.66°C	230.12V
CL1	0.115A	12.386A	12.445A	0.001A	104.296	84.137%	769	19.9	41.72°C	0.891
	12.139V	5.005V	3.286V	5.099V	123.958				48.63°C	230.26V
CL2	0.114A	20.104A	0A	0.001A	101.369	82.086%	770	20	40.13°C	0.891
	12.146V	4.973V	3.305V	5.107V	123.494				46.71°C	230.26V
CL3	0.114A	0A	20.248A	0A	67.382	75.875%	771	20.2	41.55°C	0.845
	12.145V	5.007V	3.259V	5.102V	88.809				46.44°C	230.27V
CL4	70.475A	0A	0A	0.008A	849.547	91.897%	1840	47.5	45.72°C	0.984
	12.054V	5.023V	3.289V	5.049V	924.458				50.38°C	230.15V

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	0.495A	0.497A	0.195A	20.003	62.353%	766	19.5	36.82°C	0.848
	12.165V	5.048V	3.323V	5.118V	32.081				37.26°C	115.06V
40W	2.688A	0.694A	0.696A	0.293A	40.003	84.159%	768	19.9	37.41°C	0.909
	12.163V	5.045V	3.321V	5.114V	47.533				37.83°C	115.06V
60W	4.156A	0.892A	0.895A	0.392A	60.003	87.685%	769	19.9	38.27°C	0.942
	12.159V	5.043V	3.319V	5.109V	68.43				39.23°C	115.05V
80W	5.620A	1.091A	1.094A	0.49A	79.95	89.559%	771	20.2	39.2°C	0.957
	12.156V	5.041V	3.317V	5.104V	89.273				40.17°C	115.04V

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	1.222A	0.495A	0.497A	0.195A	20.003	63.952%	768	19.9	36.48°C	0.586
	12.164V	5.048V	3.323V	5.118V	32.054				39.52°C	230.27V
40W	2.688A	0.694A	0.696A	0.293A	40.002	84.748%	770	20	37.92°C	0.69
	12.162V	5.044V	3.32V	5.114V	47.202				40.06°C	230.27V
60W	4.156A	0.892A	0.895A	0.391A	60.002	88.438%	768	19.9	38.18°C	0.786
	12.159V	5.042V	3.318V	5.109V	67.847				39.79°C	230.27V
80W	5.620A	1.091A	1.094A	0.49A	79.947	90.293%	770	20	39.38°C	0.841
	12.156V	5.041V	3.317V	5.104V	88.542				40.8°C	230.26V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	15.5 mV	15.0 mV	14.3 mV	13.7 mV	Pass
20% Load	19.7 mV	15.5 mV	14.4 mV	16.6 mV	Pass
30% Load	18.7 mV	17.5 mV	15.7 mV	20.6 mV	Pass
40% Load	20.2 mV	19.2 mV	17.5 mV	24.7 mV	Pass
50% Load	22.2 mV	20.6 mV	18.1 mV	27.6 mV	Pass
60% Load	23.7 mV	22.7 mV	19.4 mV	32.3 mV	Pass
70% Load	26.3 mV	24.4 mV	20.4 mV	37.4 mV	Pass
80% Load	27.9 mV	25.8 mV	22.1 mV	40.4 mV	Pass
90% Load	29.9 mV	25.8 mV	22.7 mV	51.0 mV	Fail
100% Load	32.5 mV	27.1 mV	25.1 mV	51.5 mV	Fail
110% Load	34.3 mV	28.3 mV	28.1 mV	55.4 mV	Fail
Crossload 1	16.1 mV	16.7 mV	17.9 mV	12.3 mV	Pass
Crossload 2	16.9 mV	20.9 mV	25.9 mV	13.3 mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload 3	15.5 mV	28.8 mV	18.3 mV	12.2 mV	Pass
Crossload 4	30.1 mV	18.5 mV	17.4 mV	44.4 mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	15.8 mV	15.5 mV	14.2 mV	14.6 mV	Pass
20% Load	19.0 mV	17.5 mV	15.4 mV	17.0 mV	Pass
30% Load	18.9 mV	17.6 mV	16.0 mV	20.6 mV	Pass
40% Load	20.6 mV	18.9 mV	16.8 mV	24.1 mV	Pass
50% Load	21.9 mV	20.6 mV	19.0 mV	27.9 mV	Pass
60% Load	24.4 mV	22.3 mV	19.1 mV	32.4 mV	Pass
70% Load	26.2 mV	24.2 mV	21.1 mV	37.2 mV	Pass
80% Load	30.6 mV	27.2 mV	23.8 mV	41.5 mV	Pass
90% Load	30.7 mV	26.4 mV	25.3 mV	52.7 mV	Fail
100% Load	32.5 mV	28.3 mV	26.1 mV	52.5 mV	Fail
110% Load	34.9 mV	28.4 mV	27.2 mV	56.2 mV	Fail
Crossload 1	16.8 mV	17.5 mV	17.5 mV	13.0 mV	Pass
Crossload 2	16.9 mV	21.0 mV	26.1 mV	14.1 mV	Pass
Crossload 3	16.4 mV	30.0 mV	20.1 mV	12.3 mV	Pass
Crossload 4	31.2 mV	19.8 mV	18.4 mV	46.9 mV	Pass

The results above are not used in the certification process

NEWGEN ST-850W



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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

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Power specifications label

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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