SILVERSTONE

SilverStone Triton 850Rz

Serial Number -

Lab ID SL85002909

Certification ID 252909

Test Result Report ID: 25PS2909A

Certificate Issue Date: Aug 4, 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	SilverStone
Model	Triton 850Rz
OEM/ODM	Andyson
Serial Number	-
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	5-10

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	120mm Sleeve Bearing Fan (PY-1225M12S)
Semi-Passive Operation	✗
Cybenetics Testing Information	
Lab ID	SL85002909
Date of receipt	Jul 14, 2025
Testing Date	Jul 26, 2025
Report Issued Date	Aug 4, 2025
DUT Notes	Some protection features need adjustment.
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 24 pin (600mm)	1	1	18AWG	No
4+4 pin ATX12V (700mm)	2	2	18AWG	No
6+2 pin PCIe (600mm)	3	3	18AWG	No
12+4 pin PCIe (600mm) (600W)	1	1	16-24AWG	No
SATA (515mm+150mm+150mm+150mm)	1	4	18AWG	No
SATA (505mm+150mm) / 4-pin Molex (+150mm+150mm)	1	2 / 2	18AWG	No

AC Power Cord (1350mm) - C13 coupler	1	1	18AWG	-

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	18	18	70.8	3	0.3
	Watts	100		849.6	15	3.6
Total Max. Power (W)		850				

Parts Description

General Data	
Manufacturer (OEM)	Andyson
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	1x NTC Thermistor SCK 056 (5 ohm) & Relay
Bridge Rectifier(s)	2x GBU1506L (800V, 15A @ 100°C)
APFC MOSFETs	2x PingWei PWE120N65SFMF (650V, 20A @ 100°C, Rds(on): 120mOhm)
APFC Boost Diode	1x Global Power G4S06508AT (650V, 8A @ 153°C)
Bulk Cap(s)	1x Nippon Chemi-con (400V, 680uF, 2,000h @ 105°C,KMW)
Main Switchers	2x PingWei PWE120N65SFMF (650V, 20A @ 100°C, Rds(on): 120mOhm)
APFC Controller	Champion CM6500UNX & CM03AX (Remove Phantom Power)
Resonant Controller	Champion CM6901T6X

Topology	Primary side: APFC, Half-Bridge & LLC Resonant converter Secondary side: [12V] Synchronous Rectification & [Minor Rails] DC-DC converters
Secondary Side	
+12V MOSFETs	6x PingWei PWC012N04ES (40V, 132A @ 100°C, Rds(on): 1.2mOhm)
5V & 3.3V	DC-DC Converters: 4x WayOn WMO190N03TS (30V, 120A @ 100°C, Rds(on): 2.8mOhm) PWM Controller(s): 2x Anpec APW7164
Filtering Capacitors	Electrolytic: 1x Nippon Chemi-con (2-5,000h @105°C, KZE) 1x Nippon Chemi-con (4-10,000h @105°C, KY) 2x Nichicon (6,000h @105°C, HV(M)) 4x Rubycon (6-10,000h @105°C, ZLH) 1x Rubycon (4-10,000h @105°C, YXF) 1x Rubycon (4-10,000h @105°C, YXJ) 4x CS (2,000h @ 105°C WR) Polymer: 17x Polycap, 2x Teapo
Supervisor IC	Esthome EST.7630FS
Fan Model	Poweryear PY-1225H12S (120mm, 12V, 0.35A, Sleeve Bearing Fan).
5VSB	
Rectifier	1x Chongqing Pingwei PS1045L SBR (45V, 10A) & Chongqing Pingwei US2MG
Standby PWM Controller	Esthome EST.3026M

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)	88.720%
Average Noise Output (>1450 Load Combinations)	41.45dBA
Average PF (>1450 Load Combinations)	0.976
Efficiency With 10W (≤500W) or 2% (>500W) Load	64.307%
Standby Power Consumption	0.0627W
Non-Accredited	
12V Ripple (Full Load)	30.23mV
5V Ripple (Full Load)	10.64mV
3.3V Ripple (Full Load)	11.23mV
5VSB Ripple (Full Load)	17.46mV
12V Load Regulation	0.45%
5V Load Regulation	2.00%
3.3V Load Regulation	2.63%
5VSB Load Regulation	4.86%
Inrush Current	33.050A

230V

Accredited	
Average Efficiency (>1450 load combinations)	90.807%
Average Noise Output (>1450 Load Combinations)	40.23dBA
Average PF (>1450 Load Combinations)	0.935
Efficiency With 10W (≤500W) or 2% (>500W) Load	64.162%
Standby Power Consumption	0.1068W
Non-Accredited	
12V Ripple (Full Load)	32.26mV
5V Ripple (Full Load)	11.33mV
3.3V Ripple (Full Load)	10.75mV

5VSB Ripple (Full Load)		13.67mV
12V Load Regulation		0.49%
5V Load Regulation		1.98%
3.3V Load Regulation		2.66%
5VSB Load Regulation		4.84%
Inrush Current		65.330A
12V Transient Response (200%)		11.59V
5V Transient Response (200%)		4.889V
3.3V Transient Response (200%)		3.230V
5VSB Transient Response (200%)		4.916V
Hold-Up Time & PWR_OK Signal		17.20ms
AC Loss to PWR_OK Hold Up Time		15.40ms
PWR_OK Inactive to DC Loss Delay		1.80ms
PSU Timings: T1 (20% / 100%)	56.0ms	53.0ms
PSU Timings: T3 (20% / 100%)	127.0ms	128.0ms
12V OCP (31.2°C / 44.0°C)	98.60A (139.27%), 12.166V	89.80A (126.84%), 12.189V
5V OCP (31.2°C / 44.0°C)	22.6A (125.56%), 5.003V	23.8A (132.22%), 4.999V
3.3V OCP (31.2°C / 44.0°C)	23.5A (130.56%), 3.362V	23.6A (131.11%), 3.361V
5VSB OCP (31.2°C / 44.0°C)	4.4A (146.67%), 4.882V	4.2A (140.00%), 4.888V
OPP (29.24°C / 42.73°C)	142.13%	122.71%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	17.2
AC Loss to PWR_OK Hold Up Time (ms)	15.4
PWR_OK Inactive to DC Loss Delay (ms)	1.8

Vampire Power

Tables

115V

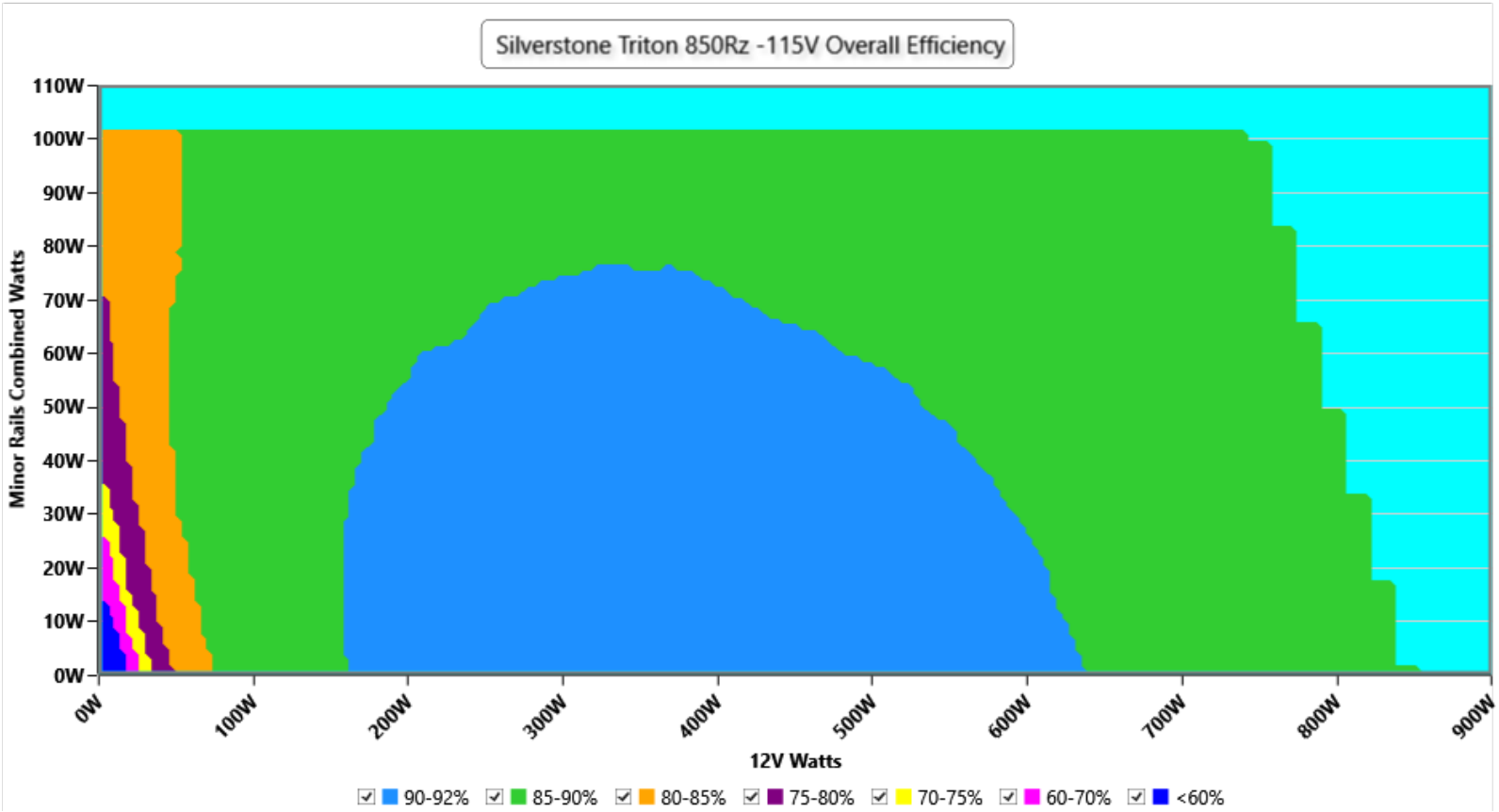
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.07 V	115.03 V	113.85 V	115.13 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.02 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.417	1.415	1.340	1.419	1.490	PASS
Mains Voltage THD:	0.15 %	0.11 %	N/A	0.21 %	2.00 %	PASS
Real Power:	0.063 W	-0.007 W	N/A	0.104 W	N/A	N/A
Apparent Power:	8.439 W	7.987 W	N/A	8.947 W	N/A	N/A
Power Factor:	0.010	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	230.92 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	1.420	1.490	PASS
Mains Voltage THD:	0.17 %	0.14 %	N/A	0.27 %	2.00 %	PASS
Real Power:	0.107 W	0.066 W	N/A	0.166 W	N/A	N/A
Apparent Power:	26.874 W	26.196 W	N/A	27.589 W	N/A	N/A
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

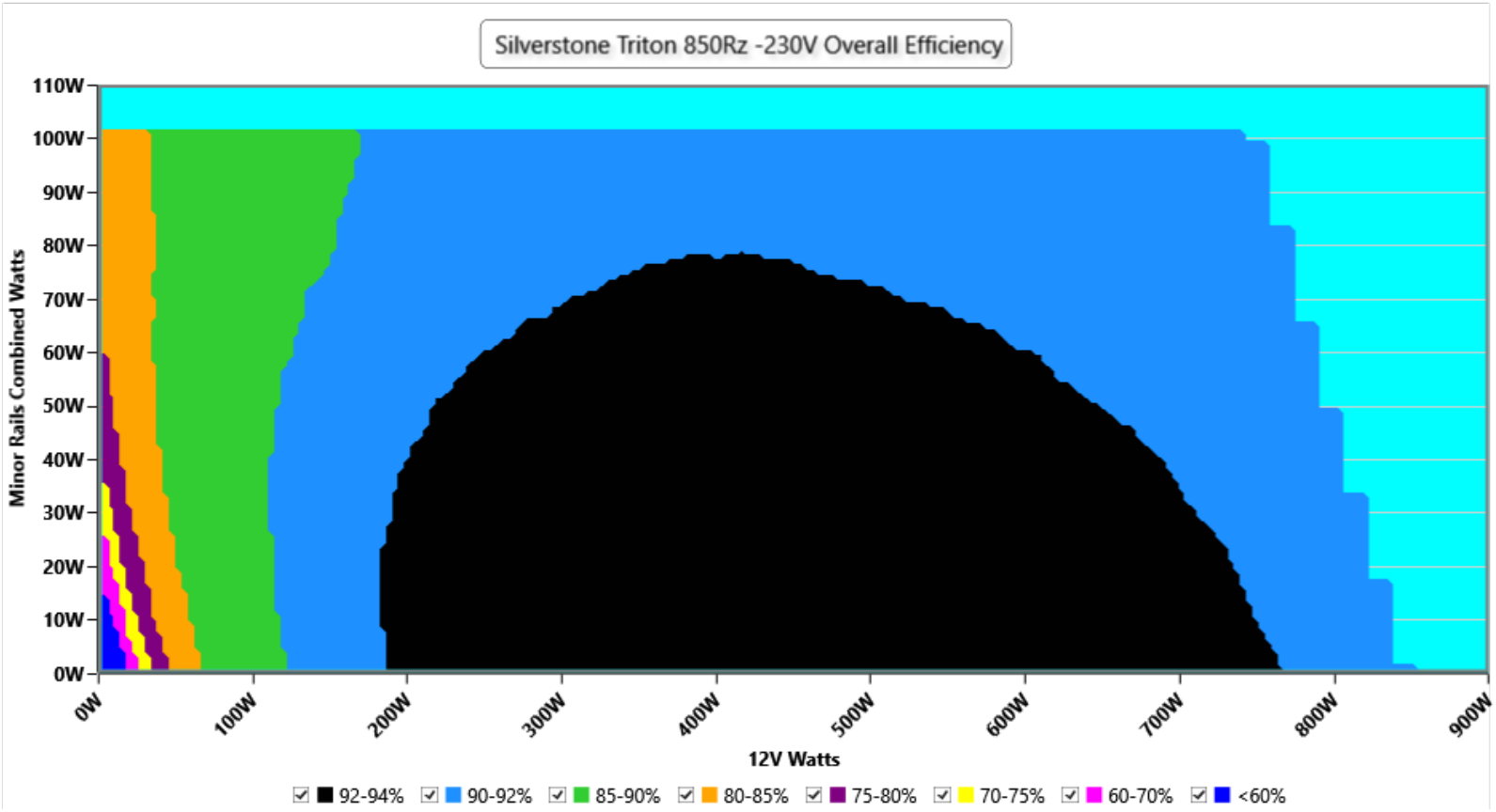
115V



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

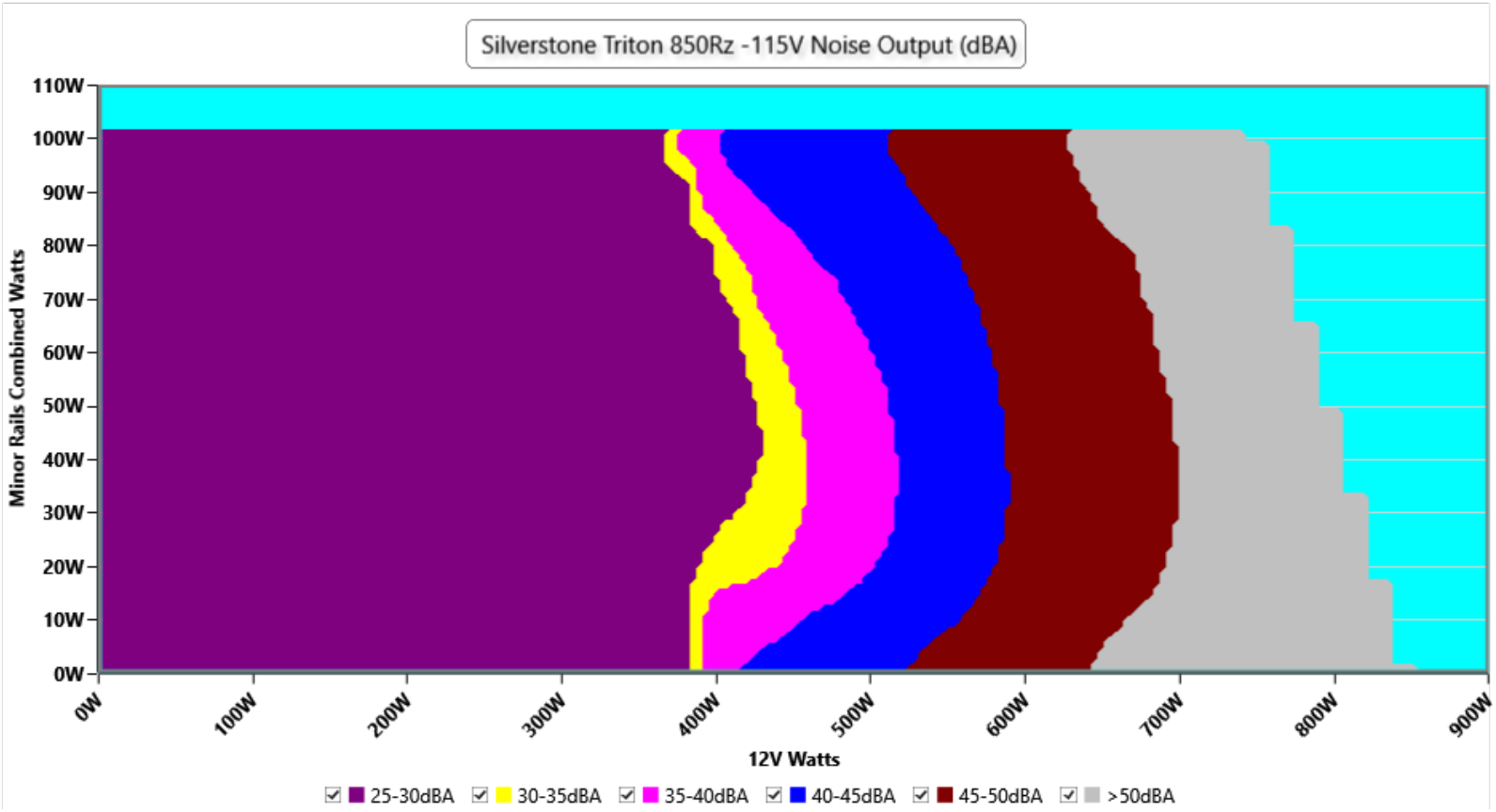


INFO

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

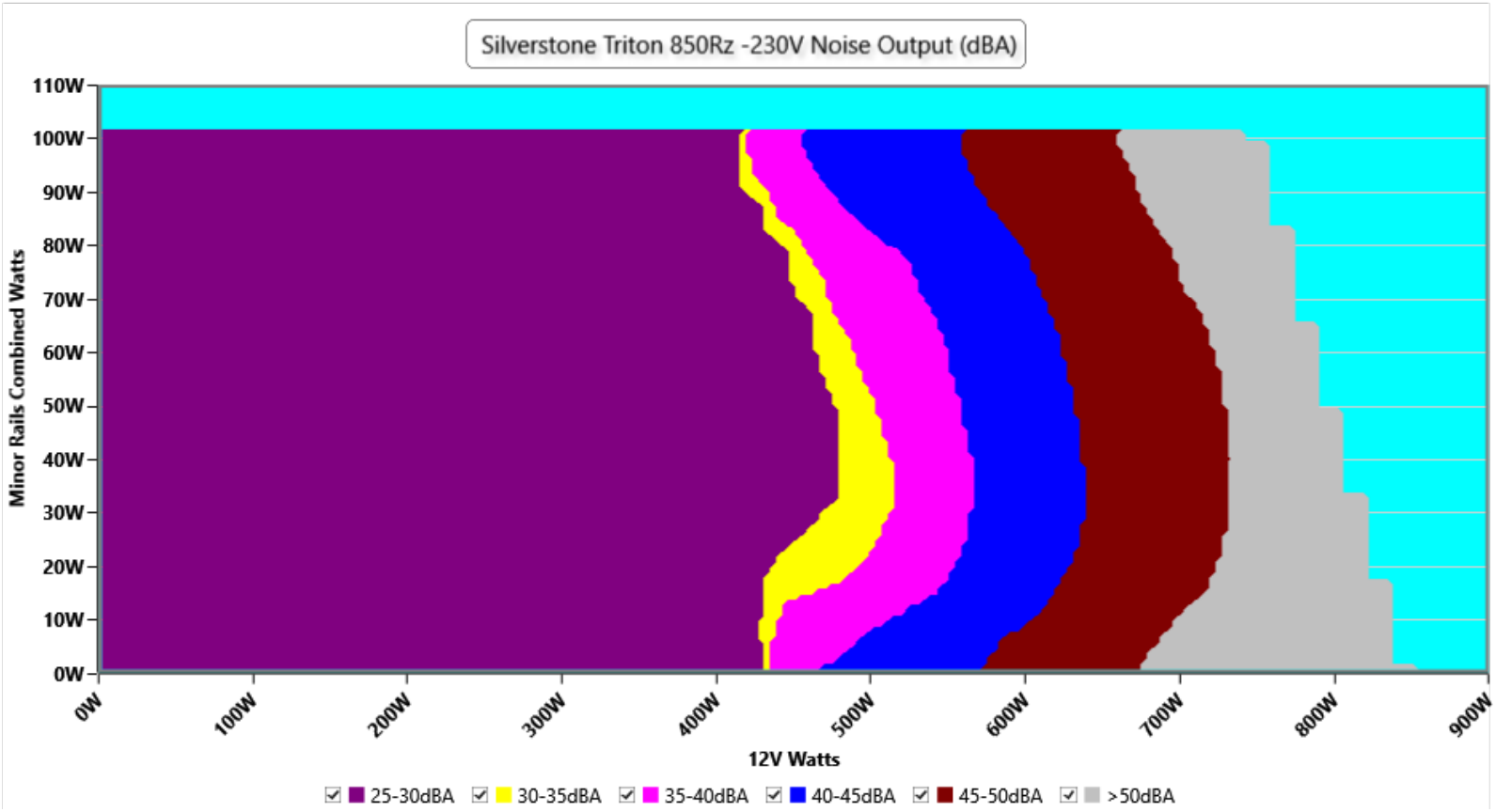
115V



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%	874 RPM · 28.9 dB(A) · 30.5 °C	897 RPM · 29.5 dB(A) · 40.4 °C	**+0.6 dB(A)**
20%	875 RPM · 28.9 dB(A) · 30.7 °C	900 RPM · 29.8 dB(A) · 40.5 °C	**+0.9 dB(A)**
50%	879 RPM · 29.1 dB(A) · 30.7 °C	1768 RPM · 46.9 dB(A) · 42.1 °C	**+17.8 dB(A)**
100%	2040 RPM · 50.6 dB(A) · 30.9 °C	2035 RPM · 50.6 dB(A) · 45.6 °C	**+0.0 dB(A)**

230V

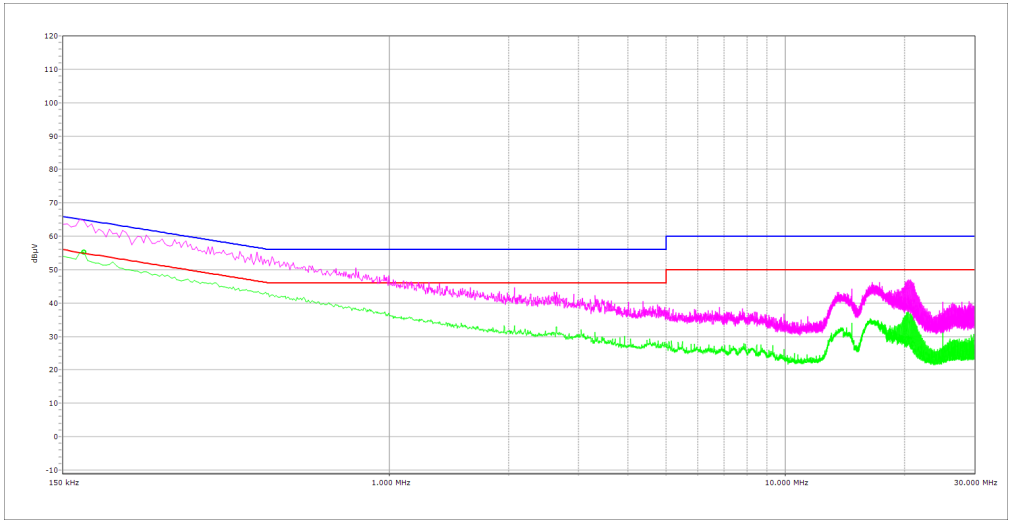
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	866 RPM · 29.0 dB(A) · 30.3 °C	895 RPM · 29.4 dB(A) · 40.2 °C	**+0.4 dB(A)**
20%	870 RPM · 28.9 dB(A) · 30.9 °C	898 RPM · 29.6 dB(A) · 40.7 °C	**+0.7 dB(A)**
50%	876 RPM · 29.0 dB(A) · 30.9 °C	1815 RPM · 47.8 dB(A) · 42.4 °C	**+18.8 dB(A)**
100%	2040 RPM · 50.6 dB(A) · 30.9 °C	2030 RPM · 50.6 dB(A) · 45.7 °C	**+0.0 dB(A)**

INFO

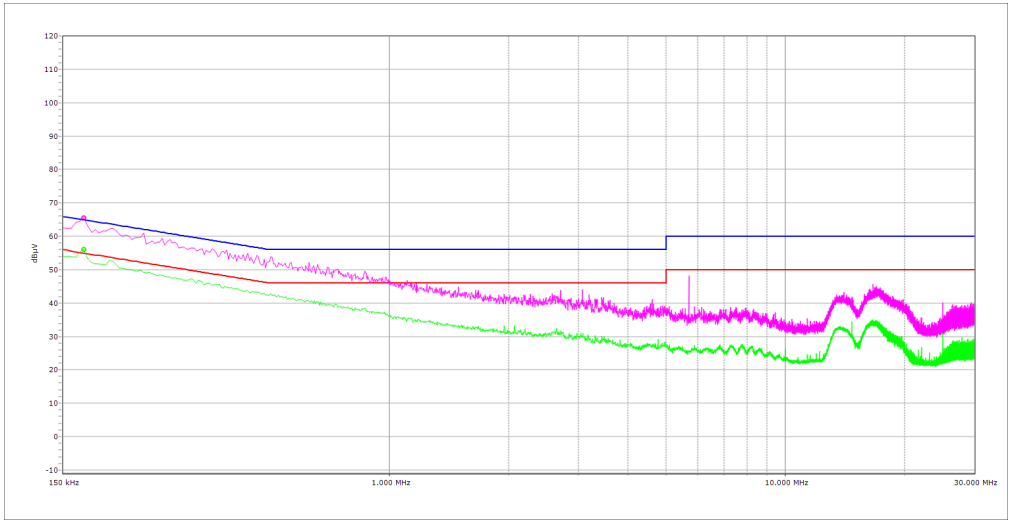
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative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



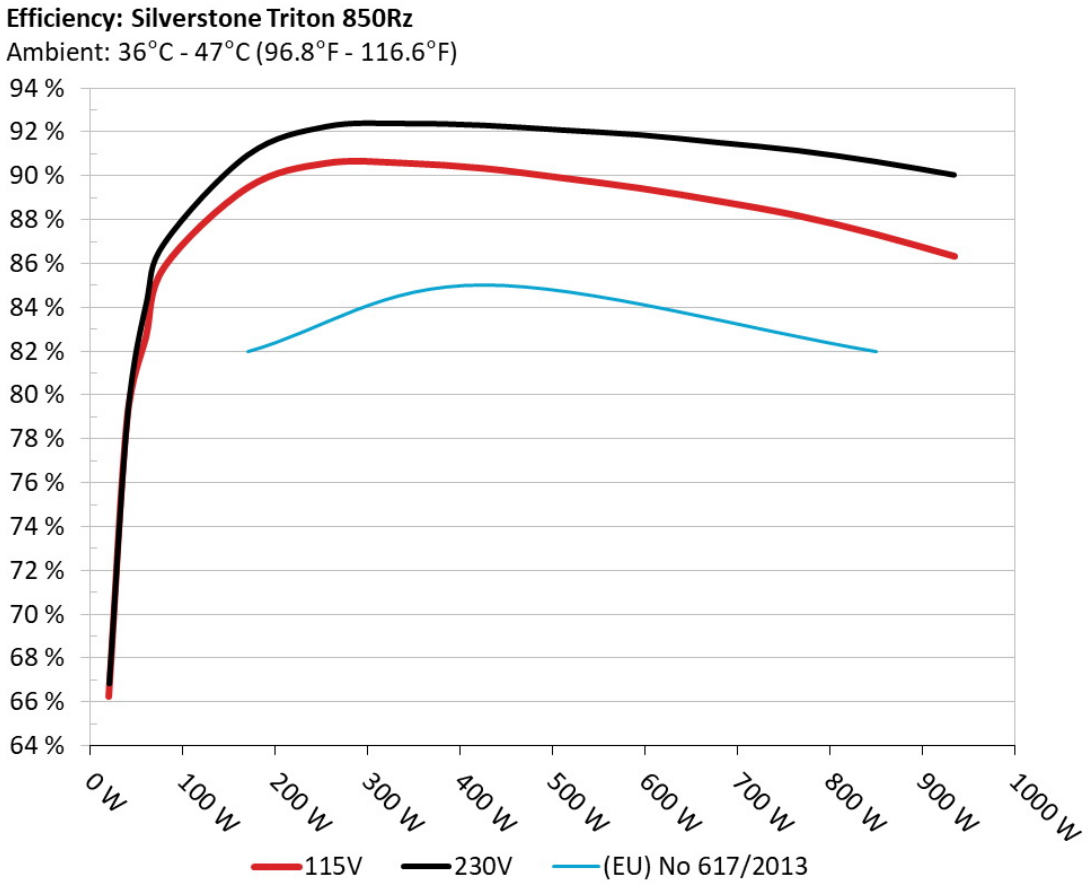
NEUTRAL



PHASE

Indicative Performance

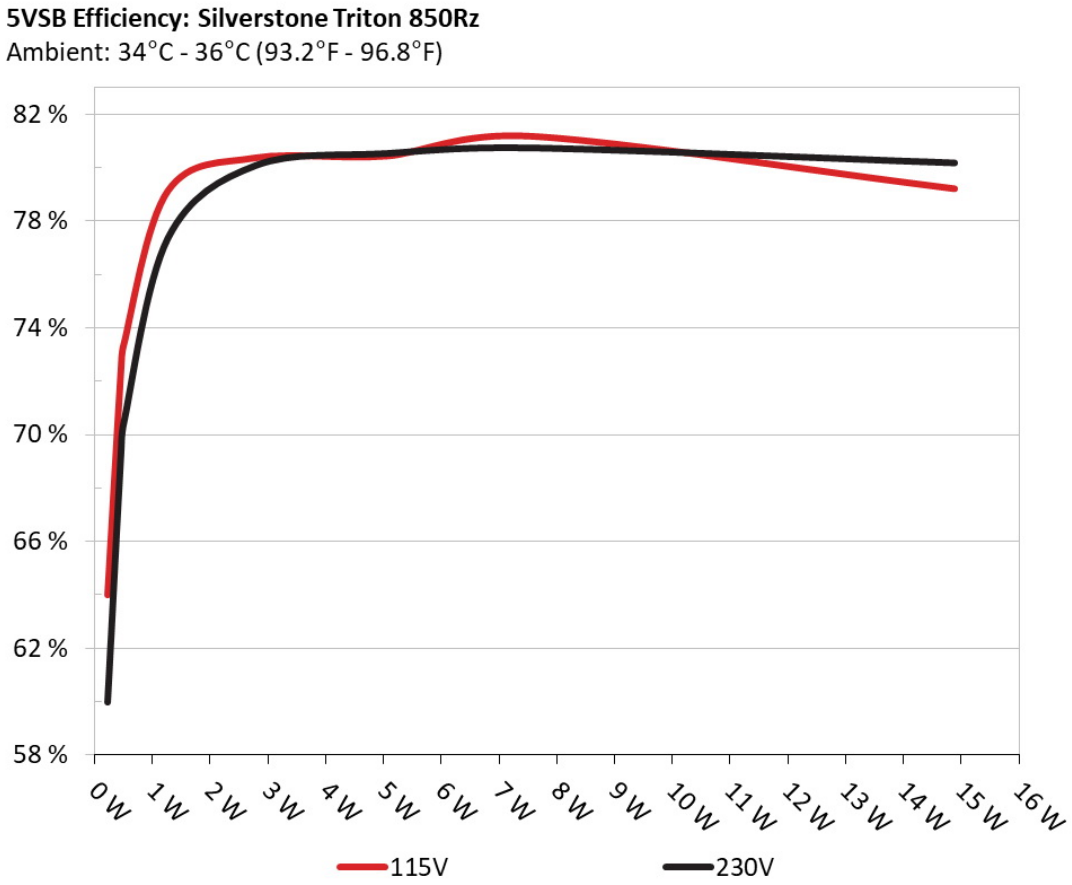
Efficiency under high ambient temperature



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	63.976%	0.047
	5.103V	0.36W		114.95V
2	**0.09A**	0.459W	72.363%	0.082
	5.101V	0.635W		114.95V
3	**0.55A**	2.794W	80.374%	0.308
	5.08V	3.477W		114.95V
4	**1A**	5.06W	80.439%	0.395
	5.058V	6.29W		114.95V
5	**1.5A**	7.553W	81.185%	0.434
	5.034V	9.303W		114.94V
6	**3A**	14.883W	79.215%	0.492
	4.96V	18.789W		114.94V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.23W	59.978%	0.015
	5.103V	0.38W		230.05V
2	**0.09A**	0.459W	69.203%	0.026
	5.101V	0.664W		230.05V
3	**0.55A**	2.795W	80.086%	0.129
	5.08V	3.491W		230.05V
4	**1A**	5.06W	80.535%	0.207
	5.058V	6.285W		230.05V
5	**1.5A**	7.554W	80.743%	0.269
	5.034V	9.355W		230.05V
6	**3A**	14.887W	80.18%	0.364
	4.962V	18.566W		230.04V

Protection Features

OCP (Normal @ 31.2°C)	12V: 98.60A (139.27%), 12.166V 5V: 22.6A (125.56%), 5.003V 3.3V: 23.5A (130.56%), 3.362V 5VSB: 4.4A (146.67%), 4.882V
OCP (Hot @ 44.0°C)	12V: 89.80A (126.84%), 12.189V 5V: 23.8A (132.22%), 4.999V 3.3V: 23.6A (131.11%), 3.361V 5VSB: 4.2A (140.00%), 4.888V
OPP (Normal @ 29.2°C)	1208.11W (142.13%)
OPP (Hot @ 42.7°C)	1043.01W (122.71%)
OTP	✓ (90°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%	**5.182A**	**1.982A**	**1.948A**	**0.991A**	85.007	85.958%	897	29.5	40.35°C	0.967
	12.236V	5.047V	3.389V	5.045V	98.892				44.35°C	114.93V
20%	**11.369A**	**2.978A**	**2.929A**	**1.194A**	169.974	89.453%	900	29.8	40.54°C	0.954
	12.232V	5.038V	3.38V	5.026V	190.01				47.27°C	114.91V
30%	**17.904A**	**3.481A**	**3.425A**	**1.398A**	254.99	90.571%	910	30.8	41.1°C	0.966
	12.228V	5.029V	3.372V	5.008V	281.298				50.29°C	114.81V
40%	**24.455A**	**3.985A**	**3.925A**	**1.604A**	340.088	90.577%	1452	41.9	41.69°C	0.976
	12.222V	5.021V	3.364V	4.989V	375.47				51.05°C	114.87V
50%	**30.675A**	**4.991A**	**4.92A**	**1.811A**	425.109	90.337%	1768	46.9	42.12°C	0.982
	12.212V	5.011V	3.354V	4.97V	470.581				52.57°C	114.86V
60%	**36.855A**	**6.002A**	**5.92A**	**2.001A**	509.543	89.905%	2008	50.5	42.73°C	0.985
	12.205V	5V	3.345V	4.951V	566.761				54.57°C	114.83V
70%	**43.112A**	**7.017A**	**6.925A**	**2.232A**	595.001	89.427%	2032	50.6	43.24°C	0.987
	12.198V	4.99V	3.336V	4.929V	665.349				57.65°C	114.81V
80%	**49.373A**	**8.036A**	**7.937A**	**2.341A**	679.847	88.841%	2035	50.6	43.53°C	0.988
	12.191V	4.979V	3.326V	4.913V	765.245				60.05°C	114.79V
90%	**56.027A**	**8.554A**	**8.439A**	**2.45A**	765.274	88.181%	2033	50.6	44.12°C	0.99
	12.186V	4.969V	3.318V	4.898V	867.848				63.67°C	114.77V
100%	**62.425A**	**9.075A**	**8.976A**	**3.09A**	850.107	87.324%	2035	50.6	45.58°C	0.991
	12.181V	4.959V	3.309V	4.855V	973.509				68.48°C	114.75V
110%	**68.690A**	**10.107A**	**10.093A**	**3.098A**	934.664	86.327%	2033	50.6	46.54°C	0.992
	12.176V	4.947V	3.299V	4.842V	1082.71				73.2°C	114.73V
CL1	**0.115A**	**12.007A**	**11.782A**	**0A**	101.312	79.429%	1486	42.8	40.04°C	0.961
	12.234V	5.014V	3.369V	5.071V	127.553				45.91°C	114.93V

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**	**17.95A**	**0A**	**0A**	91.405	79.439%	1139	35.8	40.52°C	0.966
	12.233V	5.014V	3.381V	5.08V	115.065				46.53°C	114.93V
CL3	**0.114A**	**0A**	**17.615A**	**0A**	60.796	71.202%	1462	42	41.51°C	0.949
	12.226V	5.038V	3.372V	5.079V	85.385				45.09°C	114.93V
CL4	**69.769A**	**0A**	**0A**	**0A**	849.755	88.439%	2056	50.6	45.68°C	0.991
	12.180V	4.992V	3.328V	5.03V	960.837				72.44°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%	**5.182A**	**1.981A**	**1.948A**	**0.991A**	85.007	86.803%	895	29.4	40.23°C	0.842
	12.235V	5.048V	3.389V	5.045V	97.933				43.66°C	230.05V
20%	**11.371A**	**2.978A**	**2.929A**	**1.194A**	169.974	90.951%	898	29.6	40.7°C	0.909
	12.231V	5.039V	3.38V	5.026V	186.884				45.87°C	230.04V
30%	**17.906A**	**3.48A**	**3.425A**	**1.398A**	254.988	92.249%	907	30.4	41.34°C	0.931
	12.227V	5.03V	3.372V	5.007V	276.412				47.5°C	230.04V
40%	**24.458A**	**3.984A**	**3.925A**	**1.604A**	340.091	92.388%	1506	43.3	41.81°C	0.94
	12.220V	5.021V	3.364V	4.989V	368.111				47.59°C	230.03V
50%	**30.684A**	**4.991A**	**4.92A**	**1.812A**	425.178	92.303%	1815	47.8	42.36°C	0.949
	12.210V	5.011V	3.354V	4.969V	460.634				48.88°C	230V
60%	**36.867A**	**6.001A**	**5.921A**	**2.001A**	509.62	92.092%	1996	50.1	42.74°C	0.956
	12.203V	5.001V	3.345V	4.95V	553.386				50.04°C	229.98V
70%	**43.131A**	**7.015A**	**6.927A**	**2.232A**	595.026	91.868%	2024	50.6	43.38°C	0.96
	12.193V	4.992V	3.336V	4.93V	647.696				52.28°C	229.98V
80%	**49.389A**	**8.033A**	**7.939A**	**2.341A**	679.864	91.52%	2028	50.6	43.64°C	0.962
	12.188V	4.98V	3.325V	4.914V	742.856				53.53°C	229.97V
90%	**56.046A**	**8.551A**	**8.441A**	**2.45A**	765.285	91.156%	2030	50.6	44.33°C	0.965
	12.183V	4.971V	3.317V	4.899V	839.53				55.16°C	229.97V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	**62.446A**	**9.073A**	**8.977A**	**3.089A**	850.112	90.649%	2030	50.6	45.69°C	0.968
	12.177V	4.961V	3.308V	4.856V	937.807				57.67°C	229.96V
110%	**68.711A**	**10.105A**	**10.095A**	**3.097A**	934.664	90.046%	2031	50.6	46.48°C	0.971
	12.172V	4.948V	3.298V	4.844V	1037.983				60.81°C	229.95V
CL1	**0.115A**	**12.003A**	**11.781A**	**0A**	101.315	80.478%	1729	46	40.9°C	0.881
	12.236V	5.016V	3.37V	5.071V	125.891				46.19°C	230.04V
CL2	**0.114A**	**17.947A**	**0A**	**0A**	91.404	80.516%	1130	35.7	40.87°C	0.868
	12.233V	5.015V	3.381V	5.08V	113.526				46.12°C	230.05V
CL3	**0.114A**	**0A**	**17.616A**	**0A**	60.796	72.145%	1604	44.6	41.46°C	0.816
	12.228V	5.037V	3.372V	5.079V	84.269				45.8°C	230.05V
CL4	**69.776A**	**0A**	**0A**	**0A**	849.766	91.619%	2040	50.6	45.34°C	0.968
	12.179V	4.992V	3.328V	5.031V	927.501				55.64°C	229.97V

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	**1.214A**	**0.494A**	**0.486A**	**0.196A**	20.011	66.265%	886	29.1	36.52°C	0.872
	12.236V	5.058V	3.396V	5.091V	30.206				39.85°C	114.94V
40W	**2.672A**	**0.692A**	**0.681A**	**0.295A**	40.007	78.992%	888	29.2	37.55°C	0.921
	12.236V	5.056V	3.394V	5.085V	50.647				40.32°C	114.94V
60W	**4.130A**	**0.891A**	**0.876A**	**0.394A**	60.004	82.621%	890	29.3	38.36°C	0.937
	12.235V	5.053V	3.392V	5.078V	72.627				42.61°C	114.94V
80W	**5.585A**	**1.089A**	**1.071A**	**0.493A**	79.969	85.832%	894	29.4	39.46°C	0.96
	12.236V	5.051V	3.39V	5.071V	93.171				43.59°C	114.94V

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	**1.214A**	**0.494A**	**0.486A**	**0.196A**	20.009	66.86%	886	29.1	36.93°C	0.575
	12.235V	5.059V	3.396V	5.091V	29.926				40.54°C	230.05V
40W	**2.672A**	**0.692A**	**0.681A**	**0.295A**	40.006	79.136%	887	29.2	37.22°C	0.716
	12.236V	5.057V	3.394V	5.084V	50.557				41.46°C	230.06V
60W	**4.130A**	**0.891A**	**0.876A**	**0.394A**	60.005	84.187%	890	29.3	38.31°C	0.786
	12.235V	5.054V	3.392V	5.077V	71.276				42.7°C	230.06V
80W	**5.585A**	**1.089A**	**1.071A**	**0.493A**	79.97	86.953%	890	29.3	39.11°C	0.831
	12.236V	5.052V	3.39V	5.071V	91.972				43.11°C	230.05V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	8.29mV	9.69mV	6.97mV	6.11mV	Pass
20% Load	9.11mV	10.56mV	7.43mV	6.32mV	Pass
30% Load	10.40mV	9.13mV	8.14mV	5.76mV	Pass
40% Load	11.06mV	9.13mV	8.95mV	7.28mV	Pass
50% Load	12.48mV	9.38mV	8.59mV	7.23mV	Pass
60% Load	12.98mV	9.90mV	8.65mV	13.55mV	Pass
70% Load	15.11mV	9.23mV	8.44mV	9.42mV	Pass
80% Load	17.15mV	10.61mV	10.22mV	12.07mV	Pass
90% Load	17.86mV	10.40mV	10.58mV	13.65mV	Pass
100% Load	30.23mV	10.64mV	11.23mV	17.46mV	Pass
110% Load	35.12mV	11.23mV	11.56mV	20.01mV	Pass
Crossload1	13.91mV	11.75mV	11.45mV	8.58mV	Pass
Crossload2	8.85mV	9.08mV	6.00mV	7.69mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	8.80mV	11.07mV	10.02mV	7.34mV	Pass
Crossload4	29.72mV	8.97mV	5.07mV	14.06mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	8.19mV	9.18mV	6.87mV	5.45mV	Pass
20% Load	10.58mV	8.52mV	7.68mV	6.16mV	Pass
30% Load	11.82mV	9.18mV	7.88mV	5.91mV	Pass
40% Load	12.37mV	8.93mV	8.85mV	7.34mV	Pass
50% Load	12.92mV	9.85mV	8.14mV	6.67mV	Pass
60% Load	13.52mV	8.82mV	8.04mV	13.14mV	Pass
70% Load	14.69mV	8.83mV	7.83mV	10.39mV	Pass
80% Load	16.84mV	9.84mV	10.07mV	11.97mV	Pass
90% Load	19.78mV	10.40mV	10.17mV	12.59mV	Pass
100% Load	32.26mV	11.33mV	10.75mV	13.67mV	Pass
110% Load	38.55mV	11.63mV	11.29mV	15.64mV	Pass
Crossload1	15.39mV	11.51mV	11.64mV	7.83mV	Pass
Crossload2	8.65mV	8.73mV	5.75mV	7.33mV	Pass
Crossload3	8.65mV	10.71mV	10.12mV	7.39mV	Pass
Crossload4	32.77mV	9.08mV	5.21mV	11.09mV	Pass

The results above are not used in the certification process

SilverStone Triton 850Rz



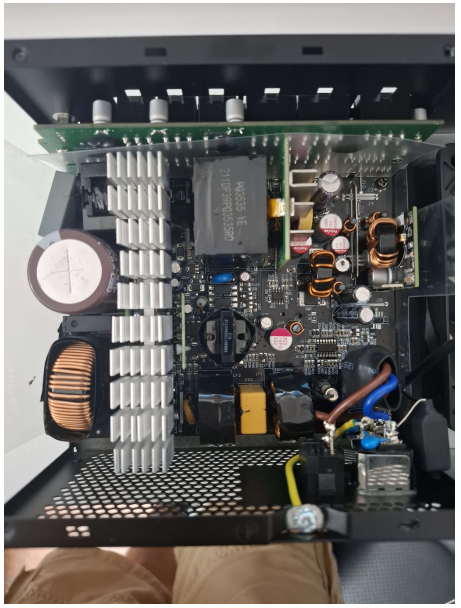
Top side



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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