SilverStone

SilverStone Triton 1000Rz

Serial Number -

Lab ID SL10002760

Certification ID 252760

Test Result Report ID: 25PS2760A

Certificate Issue Date: Mar 10, 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 1000Rz
OEM/ODM	CWT
Serial Number	-
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	12

Rated Frequency (Hz)	47-63
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	120mm Fluid Dynamic Bearing Fan (CWT12025H12F-9)
Semi-Passive Operation	
Cybenetics Testing Information	
Lab ID	SL10002760
Date of receipt	Feb 27, 2025
Testing Date	Mar 7, 2025
Report Issued Date	Mar 10, 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**	In Cable Capacitors
ATX connector 20+4 pin (590mm)	1	1	18AWG	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 (600mm+150mm+150mm+150mm)	2	8	18AWG	No
4-pin Molex (600mm+150mm+150mm+150mm)	1	4	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	83.3	3	0.3
	Watts	110		999.6	15	3.6
Total Max. Power (W)		1000				

Parts Description

General Data	
Manufacturer (OEM)	CWT
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV, 1x Power IntegrationsCAP200DG (discharge IC)
Inrush Protection	1x NTC Thermistor SCK-056 (5 ohm) & Relay
Bridge Rectifier(s)	2x GBU1006 (600V, 10A @ 100°C)
APFC MOSFETs	2x WayOn WML53N60C4 (600V, 26A @ 100°C, Rds(on): 0.07Ohm)
APFC Boost Diode	1x CRMicro CRX10D065G2 (650V, 10A @ 161°C)
Bulk Cap(s)	1x Nippon Chemi-con (400V, 680uF, 2,000h @ 105°C, KMR)
Main Switchers	4x WayOn WML26N65F2 (650V, 10.5A @ 100°C, Rds(on): 0.21Ohm) & 1x Sync Power Corp SPN5003 (For no load consumption)
APFC Controller	Champion CM6500UNX
Resonant Controller	Champion CM6901X

Topology	Primary side: APFC, Full-Bridge & LLC Resonant converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	8x IPS FTG014N04SA
5V & 3.3V	DC-DC Converters: 4x UBIQ QM3054M6 (30V, 61A @ 100°C, Rds(on): 1.7mOhm) PWM Controller(s): no info
Filtering Capacitors	Electrolytic: 2x Nippon Chemi-Con (105°C, W) 1x Nippon Chemi-con (2-5,000h @105°C, KZE) 3x Nichicon (5-6,000h @ 105°C, HV) 5x Rubycon (4-10,000h @105°C, YXJ) 1x Rubycon (4-10,000h @105°C, YXF) 2x Rubycon (10,000h @105°C, YXM) 1x Rubycon (3-6,000h @105°C, YXG) Polymer: 6x Apaq, 9x Chemic-con, 2x Elite, 8x
Supervisor IC	IN1S429I-DCG
Fan Controller	STMicroelectronics ST69345
Fan Model	CWT12025H12F-9 (120mm, 12V, 0.24A, Fluid Dynamic Bearing Fan)
5VSB	
Rectifier	ES3JBF (600V, 3A)
Standby PWM Controller	Power Integrations TNY290PG

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)	88.113%
Average Noise Output (>1450 Load Combinations)	33.14dBA
Average PF (>1450 Load Combinations)	0.977
Efficiency With 10W (≤500W) or 2% (>500W) Load	63.904%
Standby Power Consumption	0.0436W
Non-Accredited	
12V Ripple (Full Load)	32.21mV
5V Ripple (Full Load)	16.54mV
3.3V Ripple (Full Load)	24.54mV
5VSB Ripple (Full Load)	26.27mV
12V Load Regulation	0.76%
5V Load Regulation	0.78%
3.3V Load Regulation	1.18%
5VSB Load Regulation	4.39%
Inrush Current	33.720A

230V

Accredited	
Average Efficiency (>1450 load combinations)	90.265%
Average Noise Output (>1450 Load Combinations)	32.63dBA
Average PF (>1450 Load Combinations)	0.937
Efficiency With 10W (≤500W) or 2% (>500W) Load	43.171%
Standby Power Consumption	0.1226W
Non-Accredited	
12V Ripple (Full Load)	31.65mV
5V Ripple (Full Load)	16.65mV
3.3V Ripple (Full Load)	24.01mV

5VSB Ripple (Full Load)		26.18mV
12V Load Regulation		0.73%
5V Load Regulation		0.78%
3.3V Load Regulation		1.30%
5VSB Load Regulation		4.39%
Inrush Current		65.510A
12V Transient Response (200%)		11.33V
5V Transient Response (200%)		4.895V
3.3V Transient Response (200%)		3.232V
5VSB Transient Response (200%)		4.882V
Hold-Up Time & PWR_OK Signal		14.80ms
AC Loss to PWR_OK Hold Up Time		13.60ms
PWR_OK Inactive to DC Loss Delay		1.20ms
PSU Timings: T1 (20% / 100%)	25.0ms	24.0ms
PSU Timings: T3 (20% / 100%)	128.0ms	129.0ms
12V OCP (31.6°C / 42.6°C)	103.60A (124.37%), 11.948V	97.30A (116.81%), 11.976V
5V OCP (31.6°C / 42.6°C)	24.5A (122.50%), 4.997V	24.4A (122.00%), 5.006V
3.3V OCP (31.6°C / 42.6°C)	24.4A (122.00%), 3.35V	24.2A (121.00%), 3.354V
5VSB OCP (31.6°C / 42.6°C)	4.1A (136.67%), 4.969V	4.2A (140.00%), 4.963V
OPP (29.44°C / 42.08°C)	124.02%	116.00%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	14.8
AC Loss to PWR_OK Hold Up Time (ms)	13.6
PWR_OK Inactive to DC Loss Delay (ms)	1.2

Vampire Power

Tables

115V

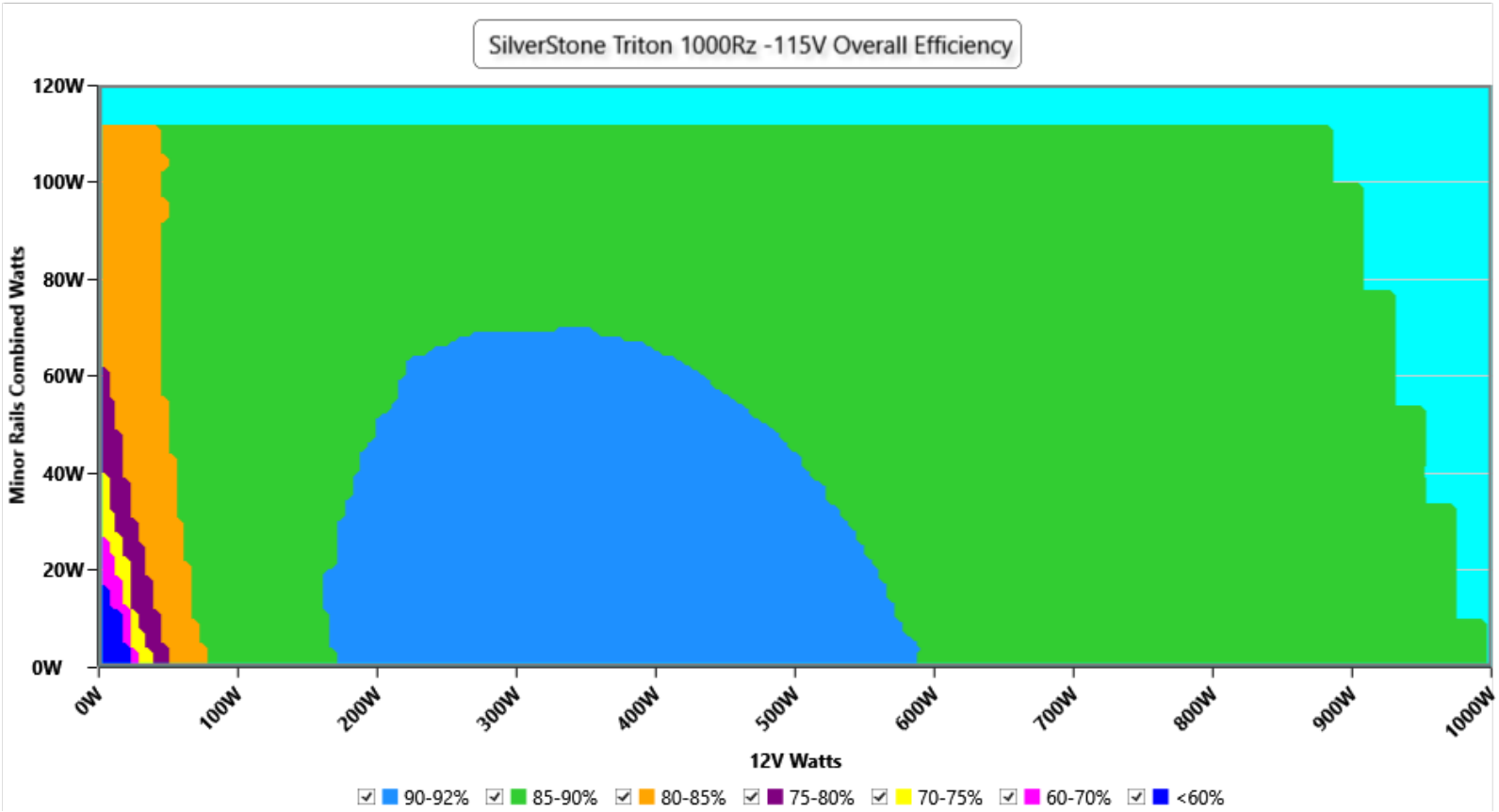
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	114.84 V	114.78 V	113.85 V	114.88 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.98 Hz	59.40 Hz	60.02 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.420	1.419	1.340	1.423	1.490	PASS
Mains Voltage THD:	0.14 %	0.10 %	N/A	0.25 %	2.00 %	PASS
Real Power:	0.044 W	0.014 W	N/A	0.065 W	N/A	N/A
Apparent Power:	9.871 W	9.852 W	N/A	9.893 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:	229.86 V	229.78 V	227.70 V	229.92 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:	1.419	1.417	1.340	1.420	1.490	PASS
Mains Voltage THD:	0.16 %	0.13 %	N/A	0.20 %	2.00 %	PASS
Real Power:	0.123 W	0.102 W	N/A	0.147 W	N/A	N/A
Apparent Power:	33.277 W	33.243 W	N/A	33.308 W	N/A	N/A
Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

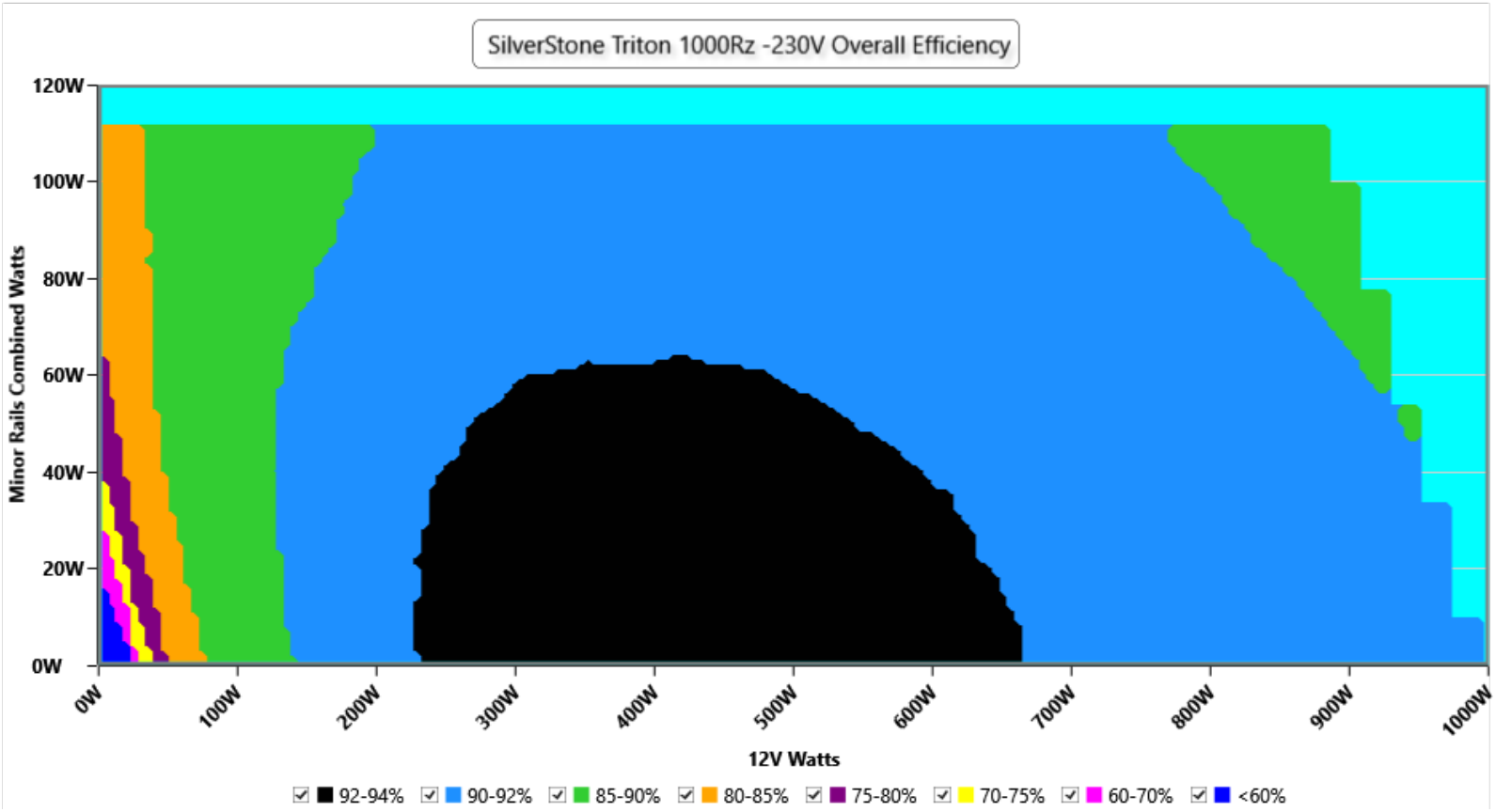
115V



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

230V

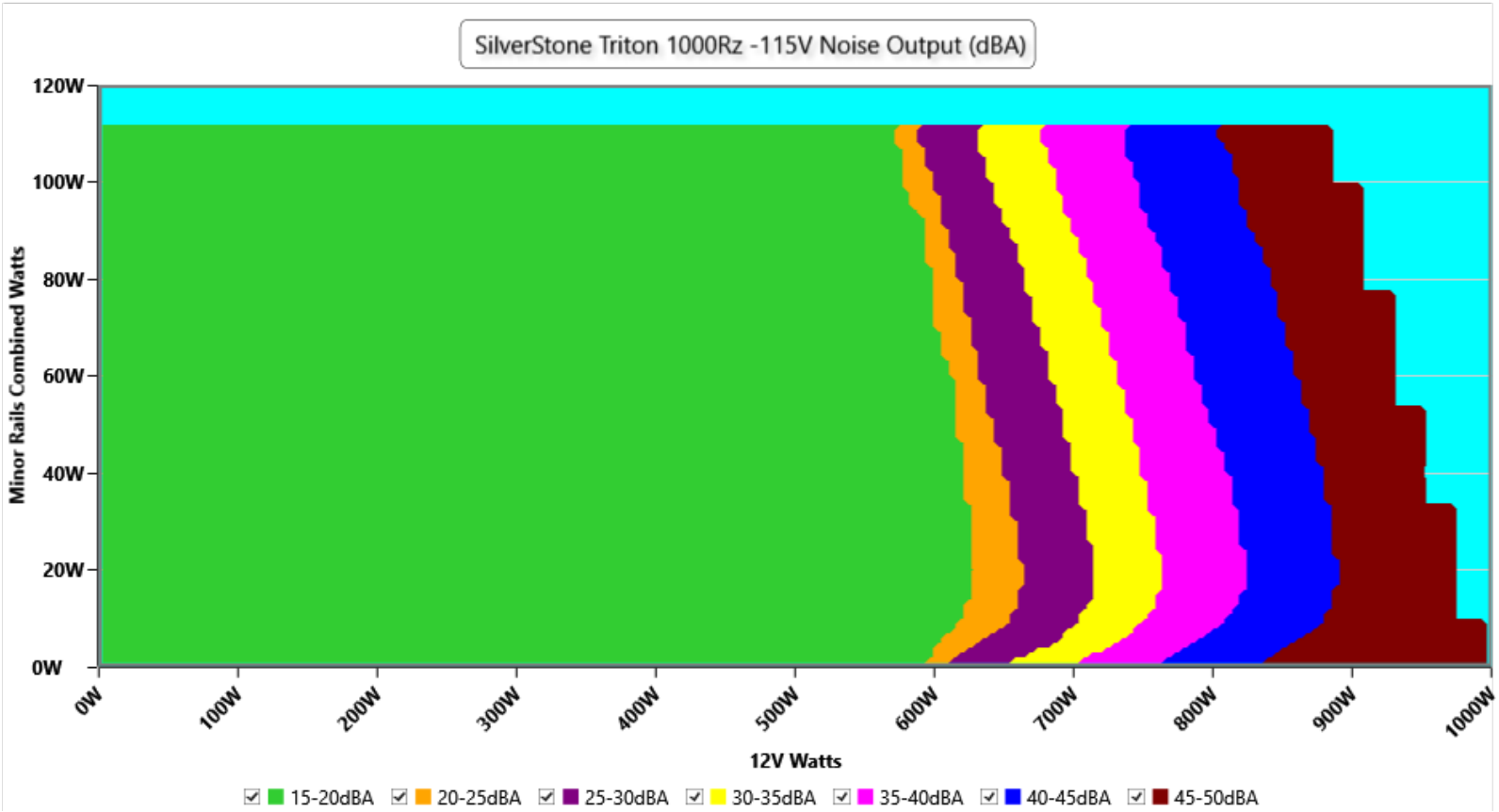


INFO

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Noise Graph

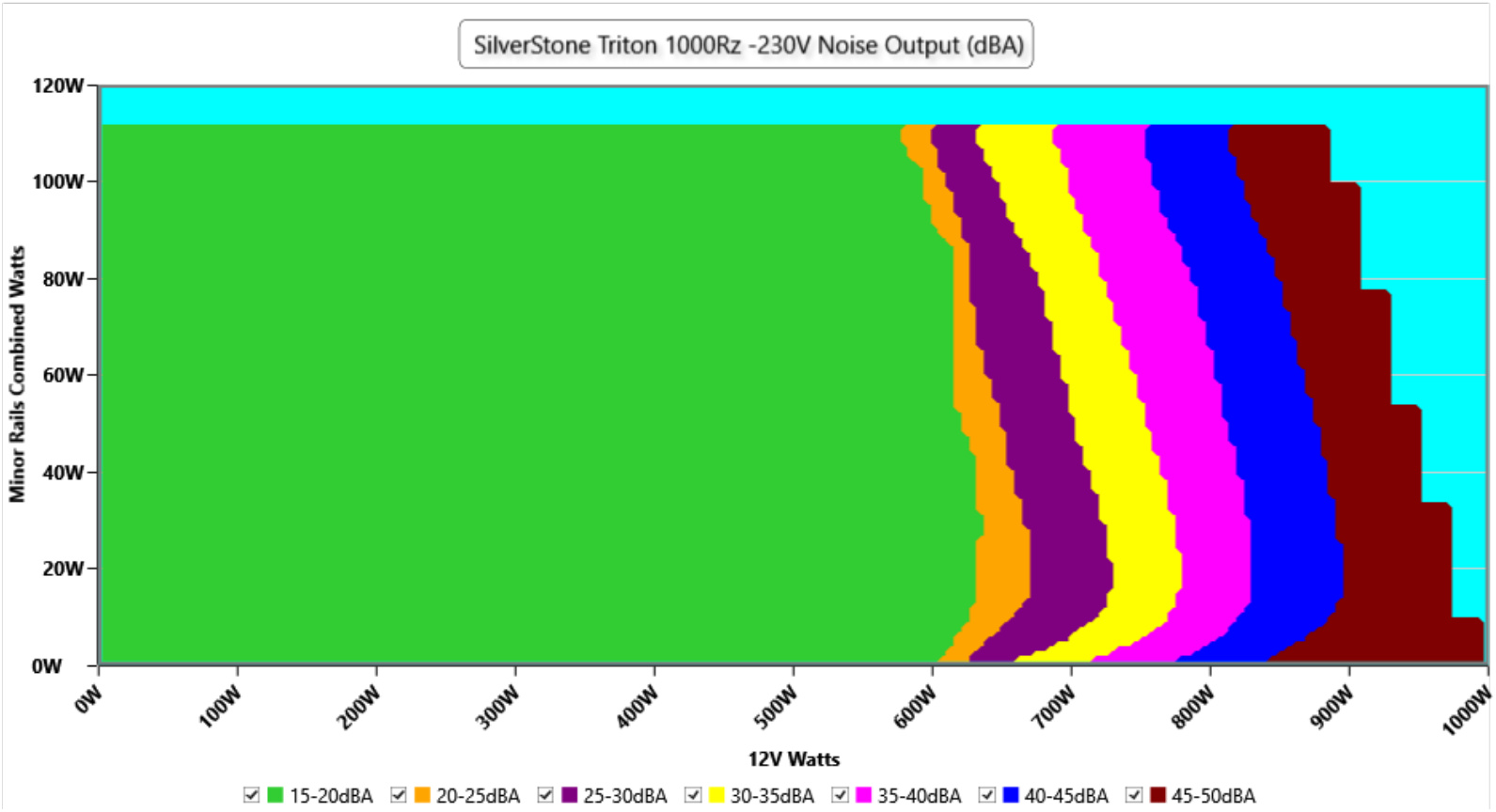
115V



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%	778 RPM · 18.7 dB(A) · 30.6 °C	798 RPM · 19.5 dB(A) · 40.3 °C	**+0.8 dB(A)**
20%	782 RPM · 19.0 dB(A) · 30.0 °C	799 RPM · 19.5 dB(A) · 40.8 °C	**+0.5 dB(A)**
50%	786 RPM · 19.1 dB(A) · 30.3 °C	800 RPM · 19.6 dB(A) · 42.3 °C	**+0.5 dB(A)**
100%	2055 RPM · 46.8 dB(A) · 30.4 °C	2196 RPM · 48.3 dB(A) · 45.1 °C	**+1.5 dB(A)**

230V

Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	800 RPM · 19.6 dB(A) · 30.5 °C	801 RPM · 19.6 dB(A) · 40.5 °C	**+0.0 dB(A)**
20%	801 RPM · 19.6 dB(A) · 30.0 °C	801 RPM · 19.6 dB(A) · 40.9 °C	**+0.0 dB(A)**
50%	796 RPM · 19.4 dB(A) · 32.3 °C	800 RPM · 19.6 dB(A) · 42.3 °C	**+0.2 dB(A)**
100%	2198 RPM · 48.3 dB(A) · 33.7 °C	2199 RPM · 48.3 dB(A) · 45.7 °C	**+0.0 dB(A)**

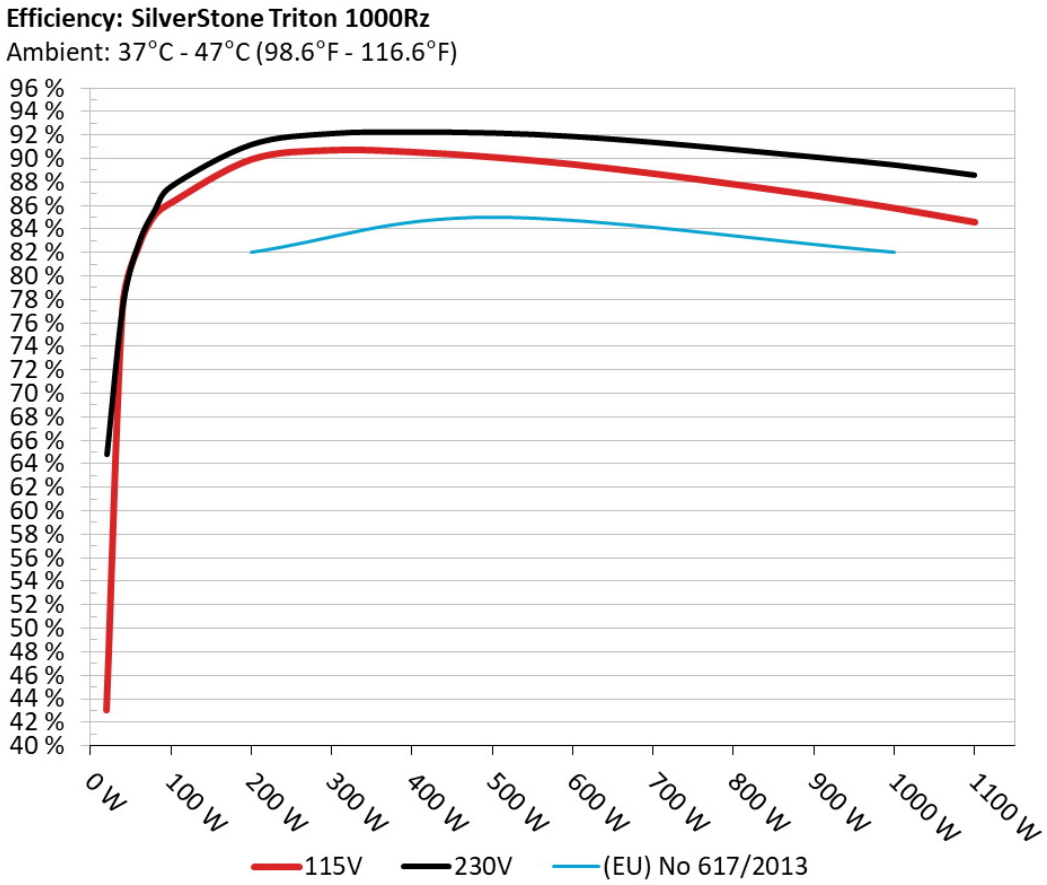
INFO

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.

Indicative Performance

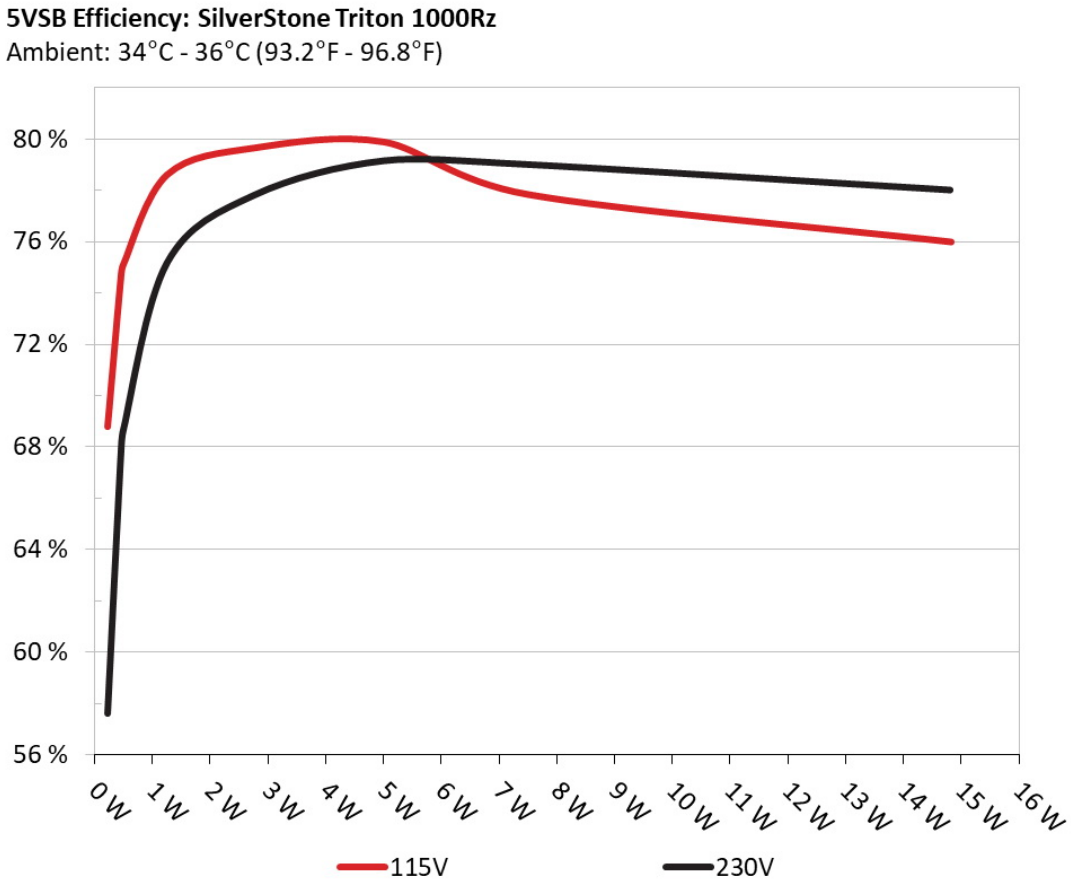
Efficiency under high ambient temperature



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**	0.227W	68.799%	0.033
	5.048V	0.33W		114.83V
2	**0.09A**	0.454W	74.565%	0.061
	5.046V	0.609W		114.83V
3	**0.55A**	2.767W	79.66%	0.266
	5.03V	3.473W		114.83V
4	**1A**	5.014W	79.892%	0.35
	5.014V	6.276W		114.83V
5	**1.5A**	7.492W	77.852%	0.409
	4.994V	9.623W		114.84V
6	**3A**	14.821W	75.998%	0.478
	4.94V	19.502W		114.83V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.227W	57.622%	0.012
	5.047V	0.394W		229.83V
2	**0.09A**	0.454W	67.597%	0.02
	5.046V	0.672W		229.83V
3	**0.55A**	2.767W	77.8%	0.102
	5.03V	3.556W		229.82V
4	**1A**	5.014W	79.136%	0.169
	5.013V	6.336W		229.82V
5	**1.5A**	7.494W	78.99%	0.214
	4.995V	9.487W		229.82V
6	**3A**	14.814W	77.997%	0.325
	4.938V	18.993W		229.82V

Protection Features

OCP (Normal @ 31.6°C)	12V: 103.60A (124.37%), 11.948V 5V: 24.5A (122.50%), 4.997V 3.3V: 24.4A (122.00%), 3.35V 5VSB: 4.1A (136.67%), 4.969V
OCP (Hot @ 42.6°C)	12V: 97.30A (116.81%), 11.976V 5V: 24.4A (122.00%), 5.006V 3.3V: 24.2A (121.00%), 3.354V 5VSB: 4.2A (140.00%), 4.963V
OPP (Normal @ 29.4°C)	1240.25W (124.02%)
OPP (Hot @ 42.1°C)	1160.03W (116.00%)
OTP	✓ (150°C @ Heat Sink)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓ -12V to Earth: ✓
PWR_OK	Proper Operation
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%	**6.522A**	**1.999A**	**1.971A**	**1A**	99.988	86.258%	798	19.5	40.34°C	0.965
	12.018V	5.003V	3.349V	5V	115.92				42.23°C	114.79V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
20%	**14.076A**	**3.001A**	**2.96A**	**1.204A**	199.936	89.958%	799	19.5	40.82°C	0.976
	12.009V	4.998V	3.345V	4.982V	222.252				44.41°C	114.77V
30%	**21.996A**	**3.503A**	**3.456A**	**1.41A**	299.986	90.745%	800	19.6	41.06°C	0.977
	11.999V	4.995V	3.342V	4.964V	330.582				45.85°C	114.73V
40%	**29.889A**	**4.006A**	**3.95A**	**1.618A**	399.516	90.592%	799	19.5	41.55°C	0.975
	11.988V	4.992V	3.342V	4.945V	441.009				48.39°C	114.7V
50%	**37.460A**	**5.011A**	**4.943A**	**1.827A**	499.253	90.158%	800	19.6	42.29°C	0.976
	11.980V	4.989V	3.339V	4.926V	553.755				52.63°C	114.67V
60%	**45.108A**	**6.018A**	**5.937A**	**2A**	599.637	89.543%	800	19.6	42.55°C	0.979
	11.972V	4.986V	3.336V	4.908V	669.664				57.34°C	114.63V
70%	**52.701A**	**7.027A**	**6.937A**	**2.25A**	699.532	88.757%	1199	32.4	43.01°C	0.981
	11.962V	4.982V	3.33V	4.888V	788.143				57.87°C	114.6V
80%	**60.381A**	**8.037A**	**7.939A**	**2.36A**	799.556	87.849%	1699	42.2	43.82°C	0.983
	11.952V	4.976V	3.325V	4.874V	910.152				56.03°C	114.56V
90%	**68.410A**	**8.546A**	**8.434A**	**2.469A**	899.336	86.895%	2198	48.3	44.15°C	0.984
	11.941V	4.973V	3.32V	4.86V	1034.97				54.76°C	114.53V
100%	**76.246A**	**9.056A**	**8.962A**	**3.109A**	999.356	85.819%	2196	48.3	45.14°C	0.986
	11.931V	4.969V	3.314V	4.826V	1164.487				56.47°C	114.48V
110%	**84.017A**	**10.07A**	**10.063A**	**3.117A**	1099.978	84.619%	2194	48.3	46.62°C	0.988
	11.922V	4.965V	3.309V	4.812V	1299.915				61.78°C	114.43V
CL1	**0.117A**	**13.271A**	**13.114A**	**0A**	111.3	81.688%	806	19.8	42.29°C	0.971
	12.019V	4.988V	3.332V	5.022V	136.254				55.95°C	114.8V
CL2	**0.115A**	**20.034A**	**0A**	**0A**	101.345	79.839%	805	19.8	40.48°C	0.968
	12.025V	4.989V	3.346V	5.028V	126.938				52.77°C	114.8V
CL3	**0.115A**	**0A**	**19.812A**	**0A**	67.383	74.107%	803	19.7	40.01°C	0.962
	12.018V	5V	3.331V	5.029V	90.925				49.81°C	114.81V
CL4	**83.739A**	**0A**	**0A**	**0.001A**	999.973	86.613%	2191	48.3	44°C	0.986
	11.942V	4.985V	3.328V	4.953V	1154.576				53.2°C	114.49V

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%	**6.522A**	**1.999A**	**1.971A**	**1A**	99.989	87.209%	801	19.6	40.45°C	0.842
	12.019V	5.003V	3.348V	5.002V	114.658				42.71°C	229.82V
20%	**14.076A**	**3.001A**	**2.961A**	**1.204A**	199.938	91.214%	801	19.6	40.89°C	0.915
	12.009V	4.998V	3.343V	4.984V	219.196				43.25°C	229.8V
30%	**21.998A**	**3.504A**	**3.459A**	**1.41A**	299.991	92.153%	800	19.6	41.14°C	0.939
	11.998V	4.994V	3.34V	4.967V	325.541				44.55°C	229.78V
40%	**29.893A**	**4.008A**	**3.957A**	**1.616A**	399.478	92.271%	797	19.4	41.88°C	0.947
	11.985V	4.99V	3.336V	4.951V	432.94				42.72°C	229.76V
50%	**37.455A**	**5.012A**	**4.952A**	**1.826A**	499.266	92.197%	800	19.6	42.27°C	0.953
	11.981V	4.988V	3.332V	4.93V	541.517				50.23°C	229.75V
60%	**45.102A**	**6.019A**	**5.949A**	**2A**	599.64	91.906%	800	19.6	42.93°C	0.956
	11.973V	4.985V	3.329V	4.912V	652.443				53.51°C	229.73V
70%	**52.696A**	**7.028A**	**6.95A**	**2.249A**	699.539	91.408%	1164	31.8	43.32°C	0.959
	11.963V	4.981V	3.324V	4.892V	765.3				53.49°C	229.71V
80%	**60.376A**	**8.039A**	**7.952A**	**2.358A**	799.573	90.796%	1740	42.5	43.66°C	0.962
	11.953V	4.976V	3.319V	4.877V	880.623				53.1°C	229.7V
90%	**68.390A**	**8.547A**	**8.442A**	**2.468A**	899.342	90.159%	2198	48.3	44.5°C	0.963
	11.945V	4.972V	3.317V	4.862V	997.51				52.02°C	229.67V
100%	**76.227A**	**9.057A**	**8.972A**	**3.108A**	999.375	89.481%	2199	48.3	45.73°C	0.965
	11.934V	4.969V	3.31V	4.827V	1116.854				52.79°C	229.66V
110%	**83.999A**	**10.072A**	**10.082A**	**3.117A**	1100.015	88.61%	2203	48.3	46°C	0.966
	11.925V	4.964V	3.303V	4.813V	1241.413				56.13°C	229.65V
CL1	**0.117A**	**13.274A**	**13.145A**	**0A**	111.306	82.055%	807	19.9	41.43°C	0.868
	12.021V	4.987V	3.324V	5.022V	135.653				55.99°C	229.81V
CL2	**0.116A**	**20.04A**	**0A**	**0A**	101.353	80.194%	807	19.9	41.46°C	0.858
	12.029V	4.988V	3.345V	5.028V	126.383				55.34°C	229.81V
CL3	**0.115A**	**0A**	**19.873A**	**0A**	67.383	74.034%	804	19.7	41.63°C	0.802
	12.023V	5V	3.321V	5.029V	91.016				52.43°C	229.81V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL4	**83.709A**	**0A**	**0A**	**0.001A**	999.943	90.348%	2197	48.3	45.1°C	0.965
	11.945V	4.986V	3.329V	4.953V	1106.776				52.24°C	229.66V

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	**1.238A**	**0.499A**	**0.492A**	**0.199A**	20.013	43.072%	796	19.4	36.85°C	0.925
	12.014V	5.008V	3.353V	5.038V	46.465				51.7°C	114.83V
40W	**2.722A**	**0.699A**	**0.689A**	**0.298A**	39.998	77.353%	796	19.4	37.34°C	0.938
	12.012V	5.007V	3.352V	5.033V	51.713				41.14°C	114.83V
60W	**4.204A**	**0.899A**	**0.886A**	**0.398A**	59.998	82.564%	796	19.4	38.34°C	0.946
	12.020V	5.006V	3.351V	5.027V	72.669				40.78°C	114.81V
80W	**5.682A**	**1.099A**	**1.083A**	**0.498A**	79.937	85.217%	797	19.4	39.76°C	0.963
	12.021V	5.005V	3.351V	5.021V	93.82				41.19°C	114.81V

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	**1.236A**	**0.499A**	**0.492A**	**0.198A**	19.995	64.794%	793	19.3	36.91°C	0.498
	12.012V	5.008V	3.353V	5.039V	30.863				37.67°C	229.85V
40W	**2.721A**	**0.699A**	**0.689A**	**0.298A**	39.996	77.577%	796	19.4	37.2°C	0.673
	12.012V	5.007V	3.352V	5.034V	51.556				38.31°C	229.83V
60W	**4.204A**	**0.899A**	**0.886A**	**0.398A**	59.996	82.858%	798	19.5	38.92°C	0.755
	12.020V	5.005V	3.35V	5.028V	72.405				39.56°C	229.83V
80W	**5.682A**	**1.099A**	**1.084A**	**0.498A**	79.934	85.654%	800	19.6	39.23°C	0.807
	12.021V	5.005V	3.35V	5.022V	93.32				41.2°C	229.82V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	20.46mV	11.85mV	13.08mV	10.21mV	Pass
20% Load	19.85mV	11.91mV	14.77mV	10.78mV	Pass
30% Load	19.75mV	13.91mV	14.52mV	11.44mV	Pass
40% Load	22.97mV	14.63mV	17.29mV	13.80mV	Pass
50% Load	22.61mV	14.63mV	18.73mV	18.22mV	Pass
60% Load	21.43mV	17.40mV	18.93mV	18.99mV	Pass
70% Load	21.48mV	15.55mV	19.60mV	24.88mV	Pass
80% Load	21.02mV	16.37mV	23.86mV	22.22mV	Pass
90% Load	22.15mV	16.68mV	22.21mV	24.73mV	Pass
100% Load	32.21mV	16.54mV	24.54mV	26.27mV	Pass
110% Load	34.76mV	17.61mV	26.92mV	28.35mV	Pass
Crossload1	38.10mV	15.91mV	18.89mV	11.65mV	Pass
Crossload2	26.54mV	20.12mV	19.44mV	13.50mV	Pass
Crossload3	33.76mV	14.63mV	18.32mV	11.19mV	Pass
Crossload4	30.39mV	15.88mV	22.64mV	18.87mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	22.35mV	13.86mV	15.13mV	11.85mV	Pass
20% Load	21.84mV	14.01mV	16.01mV	11.70mV	Pass
30% Load	22.92mV	14.83mV	17.29mV	12.52mV	Pass
40% Load	22.92mV	14.27mV	17.39mV	14.42mV	Pass
50% Load	22.61mV	14.58mV	17.65mV	18.16mV	Pass
60% Load	22.09mV	14.58mV	18.42mV	20.42mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
70% Load	23.88mV	14.63mV	19.14mV	25.81mV	Pass
80% Load	22.10mV	16.11mV	20.68mV	22.88mV	Pass
90% Load	23.12mV	17.04mV	22.01mV	22.93mV	Pass
100% Load	31.65mV	16.65mV	24.01mV	26.18mV	Pass
110% Load	34.61mV	18.26mV	26.21mV	28.28mV	Pass
Crossload1	37.31mV	15.97mV	19.51mV	11.81mV	Pass
Crossload2	26.70mV	22.28mV	20.73mV	14.37mV	Pass
Crossload3	32.58mV	14.98mV	17.65mV	10.93mV	Pass
Crossload4	29.45mV	15.90mV	22.51mV	18.45mV	Pass

The results above are not used in the certification process

SilverStone Triton 1000Rz



Top side



Power specifications label

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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