

SilverStone Strider Platinum 550W

Anex

Lab ID#: SL55001972 Receipt Date: Oct 8, 2021 Test Date: Feb 3, 2022

Report: 22PS1972A

Report Date: Feb 4, 2022

DUT INFORMATION

Brand	SilverStone
Manufacturer (OEM)	Sirfa / High Power
Series	Strider Platinum
Model Number	SST-ST55F-PT
Serial Number	154591550PT11F02000591
DUT Notes	

DUT SPECIFICATIONS

Rated Voltage (Vrms)	100-240
Rated Current (Arms)	8
Rated Frequency (Hz)	50-60
Rated Power (W)	550
Туре	ATX12V
Cooling	120mm Sleeve Bearing Fan (S1202512L)
Semi-Passive Operation	1
Cable Design	Fully Modular

TEST EQUIPMENT

Electronic Loads	Chroma 63601-5 x4 Chroma 63600-2 x2 63640-80-80 x20 63610-80-20 x2
AC Sources	Chroma 6530, Keysight AC6804B
Power Analyzers	N4L PPA1530 x2
Sound Analyzer	Bruel & Kjaer 2270 G4
Microphone	Bruel & Kjaer Type 4955-A
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2
Tachometer	UNI-T UT372 x2
Digital Multimeter	Keysight U1273AX, Fluke 289, Keithley 2015 - THD
UPS	CyberPower OLS3000E 3kVA x2
Transformer	3kVA x2

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

SilverStone Strider Platinum 550W

RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	1
(EU) No 617/2013 Compliance	1

115V		230V		
Average Efficiency	89.387%	Average Efficiency	90.907%	
Efficiency With 10W (\leq 500W) or 2% (>500W)	61.750	Average Efficiency 5VSB	77.634%	
Average Efficiency 5VSB	79.209%	Standby Power Consumption (W)	0.1415350	
Standby Power Consumption (W)	0.0765196	Average PF	0.944	
Average PF	0.989	Avg Noise Output	21.12 dB(A)	
Avg Noise Output	22.49 dB(A)	Efficiency Rating (ETA)	GOLD	
Efficiency Rating (ETA)	PLATINUM	Noise Rating (LAMBDA)	А	
Noise Rating (LAMBDA)	А			

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	45.9	3	0.3
	Watts	105		550	15	3.6
Total Max. Power (W)		550				

HOLD-UP TIME & POWER OK SIGNAL (230V)

Hold-Up Time (ms)	13.8
AC Loss to PWR_OK Hold Up Time (ms)	11.8
PWR_OK Inactive to DC Loss Delay (ms)	2

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CABLES AND CONNECTORS

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (550mm)	1	1	18-22AWG	No
4+4 pin EPS12V (750mm)	1	1	18AWG	No
6+2 pin PCle (550mm)	2	2	18AWG	No
SATA (600mm+150mm+150mm+150mm)	2	8	18AWG	No
4-pin Molex (600mm+150mm+150mm) / FDD (+150mm)	2	6/2	18-22AWG	No
AC Power Cord (1400mm) - C13 coupler	1	1	18AWG	-

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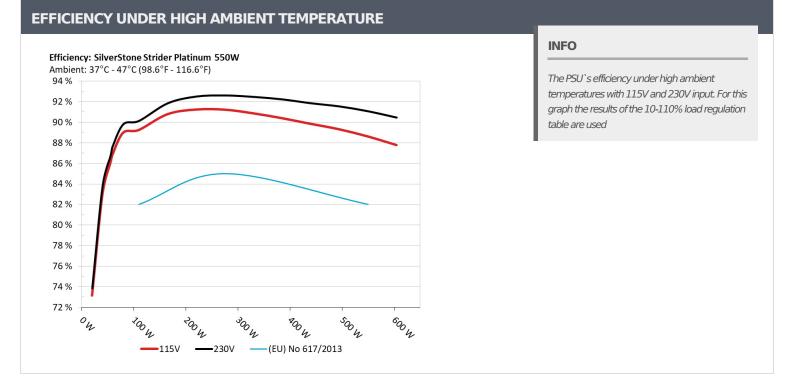
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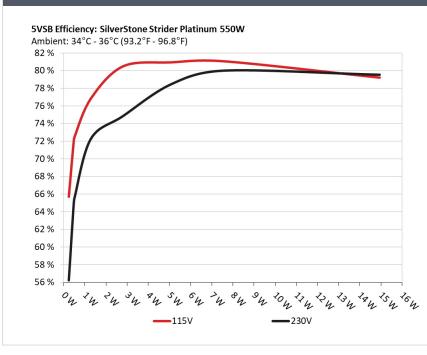


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5VSB EFFICIENCY



INFO

This graph depicts the efficiency levels of the 5VSB rail with 115V and 230V input

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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)							
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.045A	0.23W	- CE 7140/	0.047			
1	5.1V	0.35W	65.714%	115.12V			
2	0.09A	0.459W	71.070/	0.083			
2	5.098V	0.639W	71.87%	115.12V			
2	0.55A	2.794W	00 4760/	0.259			
3	5.078V	3.472W	80.476%	115.13V			
4	1A	5.061W	00.0070/	0.306			
4	5.06V	6.254W	80.927%	115.13V			
-	1.5A	7.563W	01.050/	0.33			
5	5.041V	9.331W	81.05%	115.13V			
C	3.001A	14.932W	70.100%	0.368			
6	4.976V	18.854W	79.199%	115.13V			

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.23W	FC 2240/	0.018
1	5.1V	0.409W	56.224%	230.27V
2	0.09A	0.459W	647700/	0.03
2	5.097V	0.709W	64.778%	230.27V
2	0.55A	2.791W	74.0570/	0.137
3	5.074V	3.728W	74.857%	230.27V
4	1A	5.058W	70 4570/	0.196
4	5.057V	6.447W	78.457%	230.27V
F	1.5A	7.559W	00.01.60/	0.234
5	5.038V	9.447W	80.016%	230.27V
6	3.001A	14.936W	70 5 400/	0.288
6	4.978V	18.776W	79.549%	230.27V

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

SilverStone Strider Platinum 550W

115V

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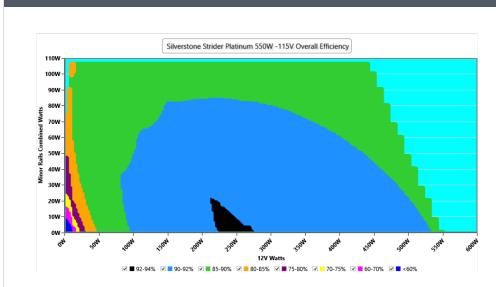
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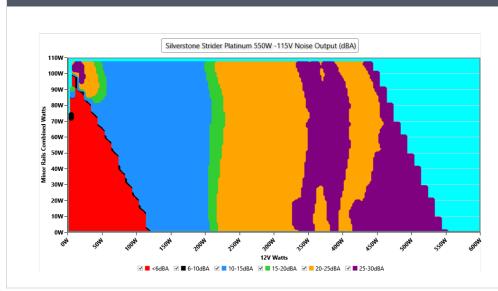
EFFICIENCY GRAPH 115V



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

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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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

SilverStone Strider Platinum 550W

VAMPIRE POWER -115V INFO Power - 154591550PT11F02000591 - 01/02/2022 - 08:44 0.077 This graph is generated by the PPA Standby Power Analysis software which takes full control of the power analyzer during the whole procedure. This 0.076 application features all of the EN50564 & IEC62301 test limits for standby power software testing 0.075 (M) 0.074 0.073 0.072 0.071 100 200 300 400 500 600 700 800 900 1000 Seconds (s)

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10-110% 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
100/	2.732A	1.963A	1.961A	0.987A	54.995	06.0100/	0		45.27°C	0.947
10%	12.225V	5.092V	3.366V	5.064V	63.935	86.018%	0	<6.0	40.36°C	115.1V
200/	6.477A	2.954A	2.954A	1.189A	109.929	00 2550/		39.3	40.63°C	0.977
20%	12.202V	5.077V	3.35V	5.045V	123.162	89.255%	1233		45.87°C	115.1V
200/	10.577A	3.453A	3.458A	1.392A	164.927	00 7950/	1410	26.6	41.22°C	0.99
30%	12.186V	5.067V	3.34V	5.029V	181.668	90.785%	1413	36.6	47°C	115.1V
40%	14.695A	3.955A	3.964A	1.596A	220.007	91.236%	1470	34.9	41.68°C	0.993
40%	12.168V	5.057V	3.329V	5.013V	241.141	91.230%	1472	34.9	48.04°C	115.1V
50%	18.479A	4.955A	4.974A	1.801A	274.998	91.222%	1482	35.2	42.24°C	0.997
50%	12.148V	5.045V	3.317V	4.998V	301.461	91.222%	1402	55.Z	49.25°C	115.09V
60%	22.275A	5.961A	5.991A	2A	329.959	90.866%	1541	26.2	42.79°C	0.996
0078	12.130V	5.033V	3.305V	4.983V	363.127	90.000 %	1041	36.3	50.36°C	115.09V
700/	26.085A	6.971A	7.016A	2.215A	385.008	90.393%	1600	36.9	43.35°C	0.996
70%	12.110V	5.021V	3.293V	4.968V	425.929	90.59570	1000		51.42°C	115.09V
80%	29.914A	7.988A	8.046A	2.321A	439.591	80.840%	39.849% 1620	37.1	43.93°C	0.995
0070	12.091V	5.009V	3.28V	4.956V	489.255	09.04970			52.71°C	115.09V
90%	34.138A	8.505A	8.564A	2.428A	494.6	89.316%	1626	626 37.3	44.09°C	0.996
9078	12.072V	4.998V	3.269V	4.943V	553.766	09.51070	1020	57.5	53.29°C	115.09V
100%	38.174A	9.026A	9.118A	3.056A	549.812	88.619%	1638	37.6	45.22°C	0.996
100 %	12.053V	4.987V	3.257V	4.909V	620.425	00.01970	1020	57.0	55.18°C	115.09V
110%	42.097A	10.053A	10.262A	3.061A	604.832	87.783%	1640	37.7	46.65°C	0.996
11076	12.033V	4.974V	3.244V	4.901V	689.011	07.70570	1040	57.7	57.45°C	115.09V
CL1	0.115A	12.506A	12.514A	0A	106.305	83.553%	1611	37.1	42.55°C	0.98
	12.193V	5.055V	3.332V	5.119V	127.23	0.000/0	1011	57.1	49.24°C	115.11V
CL2	0.114A	19.773A	0A	0A	101.413	82.385%	1518	36.0	43.24°C	0.978
	12.202V	5.059V	3.318V	5.164V	123.098	02.303 /0	0101	50.0	51.18°C	115.11V
as	0.114A	0A	19.59A	0A	67.382	76.768%	1122	20 0	44.4°C	0.965
CL3	12.201V	5.074V	3.368V	5.07V	87.774	/0./00%	5.768% 1133	28.0	54.22°C	115.11V
CL4	45.556A	0A	0A	0A	549.664	00 0010/	1621	27.1	45.92°C	0.996
UL4	12.066V	5.016V	3.289V	5.013V	612.089	89.801%	1021	37.1	56.16°C	115.09V

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20-80W 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	0.49A	0.489A	0.196A	19.994	72.15(0)	0	<6.0	40.18°C	0.848
	12.233V	5.1V	3.374V	5.094V	27.331	73.156%			37.07°C	115.09V
40144	2.673A	0.687A	0.685A	0.295A	39.994	02.0410/	0	<6.0	41.31°C	0.92
40W	12.228V	5.097V	3.371V	5.089V	48.162	83.041%			37.78°C	115.09V
C0144	4.134A	0.883A	0.882A	0.393A	59.993	00.0500/	6.956% 0	<6.0	42.39°C	0.95
60W	12.223V	5.094V	3.368V	5.083V	68.993	80.950%			38.32°C	115.09V
80W	5.591A	1.08A	1.079A	0.492A	79.937	00.00.40/	0	<6.0	43.76°C	0.968
	12.218V	5.091V	3.365V	5.077V	89.823	88.994%	0		39.3°C	115.09V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	8.19mV	9.81mV	15.96mV	5.32mV	Pass
20% Load	9.98mV	10.68mV	18.77mV	6.65mV	Pass
30% Load	9.67mV	12.36mV	17.23mV	6.55mV	Pass
40% Load	10.64mV	12.97mV	18.71mV	6.86mV	Pass
50% Load	10.59mV	14.51mV	18.61mV	8.14mV	Pass
60% Load	12.13mV	15.42mV	20.76mV	8.95mV	Pass
70% Load	13.41mV	19.31mV	22.96mV	11.82mV	Pass
80% Load	15.45mV	20.12mV	24.85mV	14.48mV	Pass
90% Load	16.12mV	20.27mV	23.78mV	14.28mV	Pass
100% Load	23.51mV	23.92mV	27.48mV	15.58mV	Pass
110% Load	26.19mV	24.14mV	29.62mV	15.30mV	Pass
Crossload1	11.40mV	12.40mV	20.80mV	5.90mV	Pass
Crossload2	8.85mV	10.93mV	17.08mV	5.17mV	Pass
Crossload3	8.60mV	9.45mV	17.03mV	4.76mV	Pass
Crossload4	23.72mV	22.00mV	26.59mV	13.64mV	Pass

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

SilverStone Strider Platinum 550W

230V

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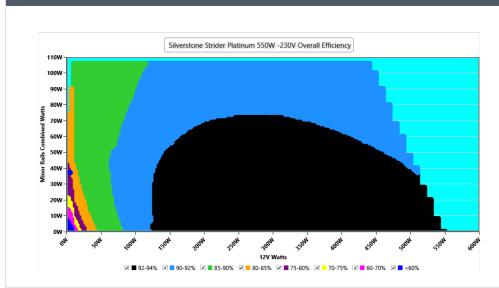
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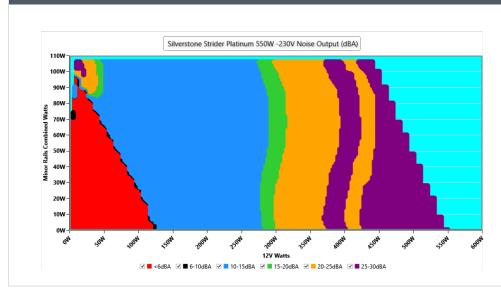
EFFICIENCY GRAPH 230V



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 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

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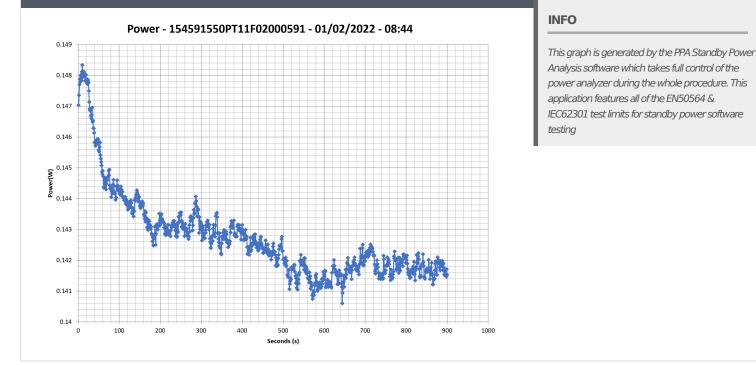
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VAMPIRE POWER -230V



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10-1	10% LOA	D TESTS	230V							
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100/	2.732A	1.963A	1.96A	0.987A	54.991	06 7010/	0	<6.0	45.27°C	0.753
10%	12.224V	5.092V	3.366V	5.064V	63.427	86.701%	0		40.02°C	230.2V
200/	6.475A	2.954A	2.953A	1.189A	109.916	00 1010/	1200	37.4	40.8°C	0.892
20%	12.204V	5.078V	3.352V	5.046V	121.966	90.121%	1399		46.53°C	230.2V
200/	10.576A	3.453A	3.457A	1.392A	164.912	01 0260/	1405	07.1	41.06°C	0.934
30%	12.184V	5.066V	3.34V	5.029V	179.592	91.826%	1405	37.1	47.34°C	230.21V
40%	14.695A	3.955A	3.964A	1.596A	219.987	92.485%	1450	24.2	41.8°C	0.959
40%	12.167V	5.056V	3.329V	5.013V	237.863	92.485%	1450	34.2 35.9 36.5	48.79°C	230.21V
E00/	18.477A	4.955A	4.973A	1.801A	274.976	92.591%	1511	25.0	42.42°C	0.966
50%	12.149V	5.045V	3.317V	4.998V	296.981	92.591%	1311	35.9	49.78°C	230.2V
600/	22.274A	5.961A	5.99A	2A	329.945	02 4520/	1666	26 F	42.77°C	0.973
60%	12.130V	5.033V	3.305V	4.983V	356.883	92.452%	1555	50.5	50.68°C	230.21V
700/	26.082A	6.972A	7.016A	2.215A	384.981	92.212%	1588	36.8	43.39°C	0.98
70%	12.110V	5.021V	3.293V	4.967V	417.497	92.21270			51.95°C	230.21V
80%	29.908A	7.988A	8.046A	2.321A	439.53	01.0200/	1612	37.2	43.8°C	0.984
00%	12.091V	5.009V	3.28V	4.956V	478.596	91.838%	1612	57.2	52.68°C	230.21V
00%	34.131A	8.505A	8.563A	2.428A	494.545	91.529%	1620	כ דכ	44.09°C	0.987
90%	12.073V	4.998V	3.269V	4.943V	540.317	91.529%	1020	37.3	53.48°C	230.21V
1000/	38.169A	9.026A	9.117A	3.056A	549.76	91.059%	1638	ד דכ	45.88°C	0.991
100%	12.053V	4.986V	3.257V	4.909V	603.739	91.059%	1038	37.7	55.86°C	230.21V
110%	42.090A	10.054A	10.261A	3.061A	604.785	90.444%	1640	37.8	46.55°C	0.993
110%	12.033V	4.974V	3.245V	4.901V	668.685	90.444%	1040	37.8	57.37°C	230.21V
CI 1	0.115A	12.506A	12.513A	0A	106.299	04 4200/	1504	36.8	42.81°C	0.889
CL1	12.193V	5.054V	3.332V	5.119V	125.887	84.439%	1594		49.74°C	230.22V
	0.114A	19.773A	0A	0A	101.41	02 21 00/	1404	25 5	43.74°C	0.883
CL2	12.202V	5.058V	3.318V	5.163V	121.713	83.319%	1494	35.5	51.51°C	230.22V
0.2	0.114A	0A	19.59A	0A	67.379	77 5000/	1062	24.6	44.38°C	0.825
CL3	12.201V	5.073V	3.368V	5.07V	86.938	77.502%	1063		52.85°C	230.22V
	45.554A	0A	0A	0A	549.682	02 210/	1625	37.3	45.96°C	0.99
CL4	12.067V	5.015V	3.288V	5.012V	596.118	92.21%	1625		55.6°C	230.22V

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20-80W LOAD TESTS 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	0.49A	0.489A	0.196A	19.989	72.05.40/	0	<6.0	40.23°C	0.53
	12.233V	5.1V	3.375V	5.094V	27.065	73.854%			37.06°C	230.18V
40144	2.672A	0.687A	0.685A	0.295A	39.989	02 0270/	0	<6.0	41.05°C	0.67
40W	12.228V	5.097V	3.371V	5.089V	47.705	83.827%			37.52°C	230.19V
CO 14	4.134A	0.883A	0.881A	0.393A	59.988	07 7 470/	7% 0	<6.0	43.02°C	0.765
60W	12.222V	5.094V	3.368V	5.083V	68.364	87.747%			38.82°C	230.19V
80W	5.591A	1.08A	1.078A	0.492A	79.926		0	<6.0	43.76°C	0.835
	12.218V	5.091V	3.365V	5.077V	89	89.805%	0		39.21°C	230.2V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	8.65mV	9.09mV	17.69mV	5.07mV	Pass
20% Load	8.85mV	10.26mV	18.46mV	5.89mV	Pass
30% Load	9.31mV	10.98mV	18.56mV	6.14mV	Pass
40% Load	8.91mV	11.80mV	19.02mV	6.45mV	Pass
50% Load	10.64mV	12.82mV	18.67mV	7.62mV	Pass
60% Load	11.26mV	14.20mV	21.68mV	8.39mV	Pass
70% Load	11.10mV	17.62mV	23.32mV	11.98mV	Pass
80% Load	14.02mV	18.85mV	23.01mV	13.87mV	Pass
90% Load	14.02mV	20.53mV	24.04mV	14.79mV	Pass
100% Load	21.38mV	20.88mV	29.59mV	15.06mV	Pass
110% Load	24.57mV	23.72mV	30.11mV	15.01mV	Pass
Crossload1	11.86mV	11.25mV	21.03mV	5.59mV	Pass
Crossload2	8.19mV	10.93mV	18.15mV	5.12mV	Pass
Crossload3	8.09mV	9.24mV	16.77mV	5.22mV	Pass
Crossload4	20.39mV	20.48mV	28.30mV	13.54mV	Pass

All data and graphs included in this test report can be used by any individual on the following conditions:

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> The link to the original test results document should be provided in any case

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Cybenetics offers the ETA and Lambda voluntary certification programs, through which the efficient and silent power supplies are promoted



Anex

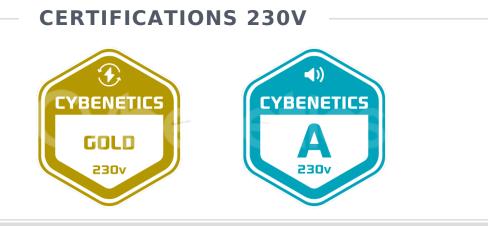
SilverStone Strider Platinum 550W







Aristeidis Bitziopoulos Lab Director



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