

SilverStone Strider Essential 500W

Anex

Serial Number

DUT Notes

Lab ID#: SL50001973 Receipt Date: Oct 13, 2021 Test Date: Feb 8, 2022

Report: 22PS1973A

Report Date: Feb 8, 2022

DUTINFORMATION	
Brand	SilverStone
Manufacturer (OEM)	FSP
Series	Strider Essential
Model Number	SST-ST50F-ESG

S3501000442

DUT	SPECIFICATIONS	

Rated Voltage (Vrms)	100-240
Rated Current (Arms)	8-4
Rated Frequency (Hz)	50-60
Rated Power (W)	500
Туре	ATX12V
Cooling	120mm Sleeve Bearing Fan (D12SM-12)
Semi-Passive Operation	×
Cable Design	Fixed cables

Electronic LoadsChroma 63601-5 x4 Chroma 63600-2 x2 63640-80-80 x20 63610-80-20 x2AC SourcesChroma 6530, Keysight AC6804BPower AnalyzersN4L PPA1530 x2
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 Essential 500W

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

115V	
Average Efficiency	88.628%
Efficiency With 10W (\leq 500W) or 2% (>500W)	64.559
Average Efficiency 5VSB	77.960%
Standby Power Consumption (W)	0.0972358
Average PF	0.993
Avg Noise Output	35.39 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard+

230V				
Average Efficiency	90.252%			
Average Efficiency 5VSB	77.049%			
Standby Power Consumption (W)	0.1568160			
Average PF	0.977			
Avg Noise Output	35.37 dB(A)			
Efficiency Rating (ETA)	GOLD			
Noise Rating (LAMBDA)	Standard+			

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
May Dawar	Amps	24	20	39	3	0.3
Max. Power	Watts	120		468	15	3.6
Total Max. Power (W)		500				

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

Hold-Up Time (ms)	21.2
AC Loss to PWR_OK Hold Up Time (ms)	19.4
PWR_OK Inactive to DC Loss Delay (ms)	1.8

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CABLES AND CONNECTORS

C_{2}	ntivo	Cables	
La	onve	Lables	
		000.00	

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (530mm)	1	1	18-24AWG	No
4+4 pin EPS12V (610mm)	1	1	18AWG	No
6+2 pin PCle (510mm+150mm)	1	2	18AWG	No
SATA (550mm+155mm+155mm+155mm)	1	4	18AWG	No
SATA (550mm+55mm+55mm+55mm)	1	4	18AWG	No
SATA (550mm) / 4-pin Molex (+155mm+155mm+155mm) / FDD (+100mm)	1	1/3/1	18-22AWG	No
Modular Cables				
AC Power Cord (1720mm) - C13 coupler	1	1	18AWG	

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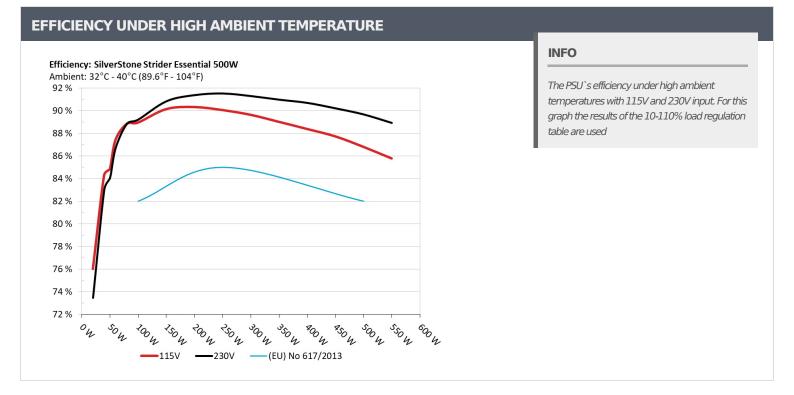
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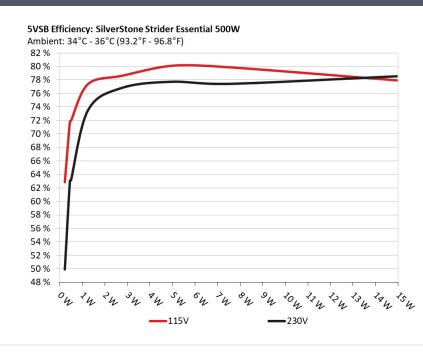


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5VSB EFFICIENCY



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	
-	0.045A	0.227W		0.071	
1	5.033V	0.361W	62.872%	115.14V	
2	0.09A	0.453W		0.116	
	5.032V	0.63W	71.855%	115.15V	
_	0.55A	2.764W	78.626%	0.286	
3	5.024V	3.515W		115.14V	
4	1A	5.016W	80.122%	0.33	
	5.015V	6.26W		115.14V	
5	1.5A	7.509W	70.0050/	0.356	
	5.005V	9.4W	79.885%	115.14V	
6	ЗА	14.935W		0.39	
	4.978V	19.159W	77.953%	115.14V	

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.227W	40.0000/	0.027
	5.032V	0.455W	49.903%	230.35V
2	0.09A	0.453W	(2,0270/	0.043
2	5.032V	0.719W	63.027%	230.35V
3	0.55A	2.764W	76.824%	0.164
	5.024V	3.598W		230.34V
4	1A	5.017W	77.734%	0.233
	5.015V	6.454W		230.34V
5	1.5A	7.512W	77.414%	0.276
	5.007V	9.703W		230.34V
6	3A	14.936W	70 50 40/	0.332
	4.978V	19.018W	78.534%	230.34V

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

SilverStone Strider Essential 500W

115V

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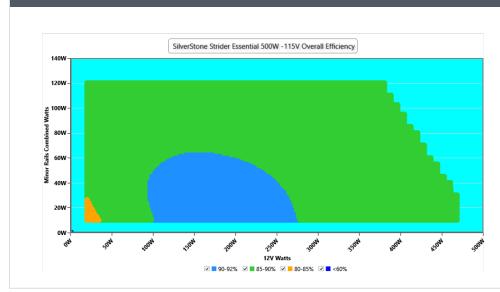
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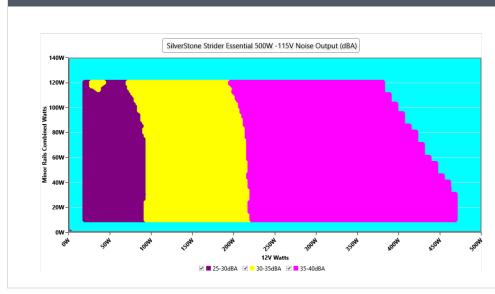
EFFICIENCY GRAPH 115V



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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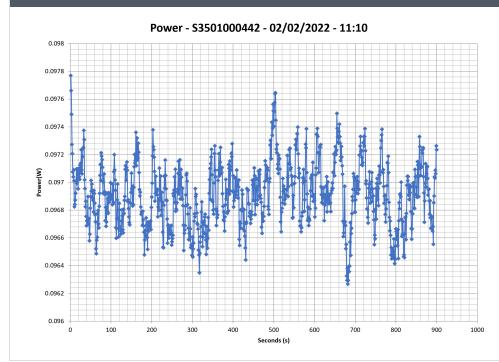
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VAMPIRE POWER -115V



INFO

This graph is generated by the PPA Standby Power Analysis software which takes full control of the power analyzer during the whole procedure. This application features all of the EN50564 & IEC62301 test limits for standby power software testing

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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
	2.338A	1.958A	2.002A	1A	50.006	04.0460/			34.54°C	0.953
10%	12.148V	5.107V	3.296V	5.001V	58.937	84.846%	972	26.2	37.35°C	115.15V
	5.707A	2.937A	3.012A	1.203A	99.953	00.05.00/	1020	20.1	35.5°C	0.976
20%	12.099V	5.109V	3.287V	4.988V	112.362	88.956%	1029	28.1	38.84°C	115.15V
	9.449A	3.426A	3.523A	1.407A	149.991	00 15 20/	1107	20.0	36.02°C	0.987
30%	12.058V	5.109V	3.279V	4.976V	166.375	90.152%	1107	30.0	39.83°C	115.15V
40%	13.212A	3.914A	4.036A	1.612A	200.032	90.333%	1186	31.9	36.43°C	0.992
40%	12.021V	5.112V	3.271V	4.963V	221.437	90.555%		51.9	40.54°C	115.15V
50%	16.624A	4.898A	5.06A	1.819A	249.983	90.065%	1277	33.7	36.58°C	0.996
	12.000V	5.105V	3.261V	4.949V	277.557	90.005%	1277	55.7	41.53°C	115.16V
	20.060A	5.886A	6.089A	2.001A	299.894	89.644%	1360	25.0	37.59°C	0.997
60%	11.974V	5.098V	3.252V	4.936V	334.539	09.044% 1500	35.6	42.88°C	115.16V	
70%	23.513A	6.878A	7.128A	2.236A	350.061	89.022%	2% 1462	37.7	37.71℃	0.997
	11.948V	5.091V	3.241V	4.921V	393.227	09.022%			43.54°C	115.16V
80%	26.987A	7.869A	8.173A	2.343A	399.688	88.394%	1474	37.9	38.62°C	0.998
00 /0	11.923V	5.085V	3.23V	4.909V	452.168	00.39470	14/4		44.74°C	115.16V
90%	30.970A	8.35A	8.692A	2.451A	449.916	87.738%	1467	37.8	39.13°C	0.998
	11.863V	5.091V	3.221V	4.897V	512.794	07.75070	1407	57.0	45.63°C	115.16V
100%	34.678A	8.84A	9.251A	3.077A	499.534	86.814%	1470	37.8	39.5°C	0.998
	11.818V	5.091V	3.21V	4.875V	575.405	00.014%	1470	57.0	46.65°C	115.16V
110%	38.315A	9.84A	10.411A	3.085A	549.756	85.787%	1470	0 70	40.05°C	0.999
	11.783V	5.082V	3.198V	4.863V	640.837	0.101%	1470	37.8	47.78°C	115.17V
CL1	1.904A	14.862A	14.682A	0.505A	146.419	84.878%	1519	38.6	36.42°C	0.988
	12.611V	4.858V	3.249V	4.955V	172.504	04.07070	1319	0.0	41.25°C	115.17V
CL2	1.908A	19.753A	1.01A	0.502A	126.517	86.352%	1417	26.0	37.28°C	0.985
	12.582V	4.896V	3.268V	4.979V	146.512	00.332 /0	1417	36.8	42.85°C	115.16V
	1.946A	1.004A	22.744A	0.504A	105.706	- 02.0210/	1170	21.6	38.08°C	0.981
CL3	12.333V	4.983V	3.262V	4.96V	128.877	82.021%	1178	31.6	44.53°C	115.16V
CL4	42.640A	0.952A	1.02A	0.506A	499.747	06 6220/	1445	27 /	39.41°C	0.998
CL4	11.466V	5.251V	3.236V	4.94V	576.859	86.633%	1445	37.4	46.47°C	115.16V

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SilverStone Strider Essential 500W

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
2014/	1.222A	0.488A	0.499A	0.199A	20.002	70.01.00/	022	25.0	32.27°C	0.901
20W	12.150V	5.119V	3.305V	5.022V	26.314	76.013%	76.013% 933	25.0	33.4°C	115.16V
40\\\/	2.704A	0.682A	0.7A	0.299A	40.001	04 21 50/	054	25.6	33.19°C	0.941
40W	12.090V 5.134V 3.301V 5.017V 47.442	84.315%	954	23.0	34.98°C	115.15V				
C014/	4.187A	0.876A	0.9A	0.399A	60	07 4150/	948	25.4	33.3°C	0.958
60W	12.068V	5.138V	3.299V	5.013V	68.638	87.415%			35.43°C	115.15V
80W	5.671A	1.071A	1.101A	0.499A	79.959	00.0520/	075	26.4	34.41°C	0.97
	12.049V	5.136V	3.296V	5.008V	89.99	88.853%	975		36.87°C	115.15V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	17.67mV	19.59mV	10.90mV	15.29mV	Pass
20% Load	26.00mV	18.77mV	17.14mV	15.86mV	Pass
30% Load	35.40mV	27.10mV	21.09mV	10.91mV	Pass
40% Load	33.71mV	27.30mV	17.09mV	10.30mV	Pass
50% Load	34.58mV	28.59mV	18.02mV	10.76mV	Pass
60% Load	38.31mV	32.27mV	18.22mV	13.10mV	Pass
70% Load	42.45mV	33.85mV	17.87mV	14.37mV	Pass
80% Load	48.42mV	44.39mV	21.34mV	16.16mV	Pass
90% Load	54.40mV	45.92mV	20.16mV	17.49mV	Pass
100% Load	68.44mV	58.22mV	36.75mV	20.37mV	Fail
110% Load	95.37mV	73.19mV	38.03mV	22.79mV	Fail
Crossload1	40.07mV	88.07mV	30.86mV	17.06mV	Fail
Crossload2	36.57mV	74.20mV	19.50mV	16.97mV	Fail
Crossload3	32.69mV	62.49mV	22.01mV	14.07mV	Fail
Crossload4	75.26mV	89.01mV	32.12mV	20.17mV	Fail

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

SilverStone Strider Essential 500W

230V

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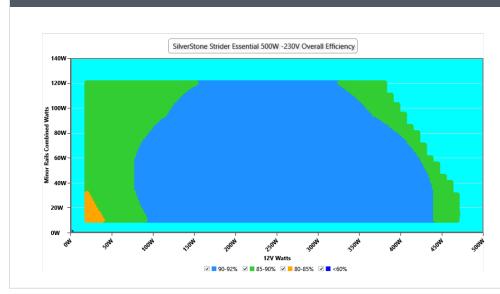
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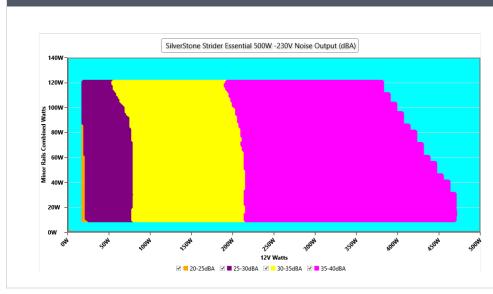
EFFICIENCY GRAPH 230V



INFO

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NOISE GRAPH 230V



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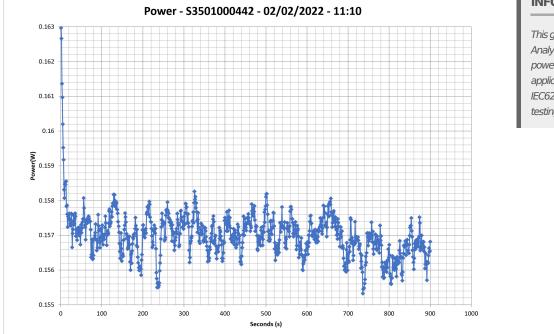
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10-1	10% LOA	D TESTS	230V							
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
109/	2.342A	1.964A	2.007A	1A	50.004	94 OF 20/	1022	20.2	35.61°C	0.868
10%	12.130V	5.092V	3.289V	5.001V	59.492	84.052%	1033	28.2	38.53°C	230.32V
200/	5.718A	2.939A	3.017A	1.203A	99.948	00 2110/	1065	20.1	35.94°C	0.935
20%	12.074V	5.104V	3.281V	4.988V	112.034	89.211%	1065	29.1	39.15°C	230.32V
30%	9.471A	3.432A	3.53A	1.407A	149.987	90.836%	1136	20 E	36°C	0.96
50%	12.028V	5.101V	3.272V	4.975V	165.118	90.030%	1150	30.5	39.59°C	230.32V
40%	13.244A	3.921A	4.045A	1.612A	200.028	01 200/	1208	32.4	36.24°C	0.974
40%	11.992V	5.103V	3.264V	4.963V	218.897	91.38%	1208	32.4	40.25°C	230.33V
E00/	16.650A	4.904A	5.066A	1.819A	249.966	91,525%	1106	32.2	37.38°C	0.982
50%	11.980V	5.099V	3.257V	4.95V	273.112	91.525%	1196	3Z.Z	41.69°C	230.34V
600/	20.088A	5.893A	6.1A	2.001A	299.887	91,299%	1224	24.0	37.85°C	0.985
60%	11.957V	5.093V	3.246V	4.936V	328.465	91.299% 1324	34.8	42.7°C	230.34V	
700/	23.542A	6.883A	7.144A	2.236A	350.054	00.0700/	1431	37.1	38.34°C	0.988
70%	11.933V	5.087V	3.234V	4.92V	384.766	90.979%			43.54°C	230.35V
80%	27.043A	7.869A	8.185A	2.344A	399.666	90.695%	1471	37.8	39.17°C	0.99
80%	11.898V	5.085V	3.225V	4.908V	440.669	90.095%			44.82°C	230.35V
0.0%/	30.990A	8.355A	8.703A	2.451A	449.915	90.214%	1470	37.8	39.75°C	0.991
90%	11.855V	5.088V	3.217V	4.896V	498.719	90.214%	1470		46.12°C	230.35V
1009/	34.674A	8.844A	9.251A	3.076A	499.446	89.679%	1474	27.0	40.14°C	0.992
100%	11.817V	5.089V	3.21V	4.877V	556.926	89.079%	1474	37.9	47.29°C	230.36V
110%	38.313A	9.842A	10.416A	3.085A	549.709	88.926%	1474	27.0	40.21°C	0.993
110%	11.782V	5.081V	3.197V	4.864V	618.163	88.920%	1474	37.9	48.12°C	230.36V
0.1	1.916A	14.841A	14.712A	0.504A	146.4	06 4700/	1100	20.2	37.51°C	0.961
CL1	12.533V	4.865V	3.242V	4.96V	169.289	86.479%	1123	30.3	41.68°C	230.36V
	1.912A	19.791A	1.011A	0.502A	126.509	07.010/	1200	22.4	38.55°C	0.954
CL2	12.559V	4.886V	3.263V	4.979V	145.395	87.01%	1209	32.4	43.72°C	230.36V
CL 2	1.954A	1.005A	22.934A	0.505A	105.707	02 2070/	1222	22.0	39.88°C	0.946
CL3	12.283V	4.98V	3.235V	4.957V	128.446	82.297%	1232	32.8	46.29°C	230.36V
CLA	42.657A	0.953A	1.021A	0.506A	499.736	90 2020/	1440	27.2	40.87°C	0.992
CL4	11.462V	5.247V	3.232V	4.939V	559.663	89.292%	1440	37.3	48.92°C	230.37V

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Anex

SilverStone Strider Essential 500W

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
2014	1.228A	0.489A	0.5A	0.199A	19.998	72 4660/	000	26.1	33.38°C	0.716
20W	12.092V	5.112V	3.298V	5.023V	27.221	73.400%	73.466% 968		34.56°C	230.3V
40144		0.684A	0.701A	0.299A	39.997	02.0400/	000	26.8	33.75°C	0.835
40W	12.090V	5.117V	3.295V	5.018V	48.161	83.049%	986		35.24°C	230.3V
C014/	4.198A	0.878A	0.902A	0.399A	59.997	06 70/	996	27.1	34.59°C	0.887
60W	12.036V	5.127V	3.293V	5.012V	69.2	86.7%			36.39°C	230.3V
80W	5.680A	1.072A	1.103A	0.499A	79.951	00 0270/	37% 1017	27.8	34.88°C	0.916
	12.028V	5.13V	3.29V	5.008V	89.997	88.837%			37.11°C	230.31V

RIPPLE MEASUREMENTS 230V

12V	5V	3.3V	5VSB	Pass/Fail
28.35mV	21.12mV	11.62mV	14.89mV	Pass
25.90mV	17.95mV	11.21mV	18.40mV	Pass
28.76mV	21.33mV	10.95mV	19.98mV	Pass
30.34mV	25.82mV	12.44mV	19.83mV	Pass
33.97mV	29.00mV	13.20mV	10.71mV	Pass
37.18mV	33.59mV	13.82mV	12.09mV	Pass
39.02mV	43.31mV	14.90mV	13.97mV	Pass
45.36mV	40.19mV	21.34mV	18.00mV	Pass
51.28mV	46.07mV	21.09mV	18.81mV	Pass
70.00mV	61.90mV	36.41mV	21.26mV	Fail
86.71mV	70.80mV	40.68mV	22.12mV	Fail
38.04mV	89.69mV	25.11mV	17.98mV	Fail
35.60mV	71.95mV	14.43mV	16.97mV	Fail
32.28mV	65.86mV	21.70mV	16.67mV	Fail
67.63mV	91.23mV	32.32mV	20.43mV	Fail
	25.90mV 28.76mV 30.34mV 33.97mV 37.18mV 39.02mV 45.36mV 51.28mV 70.00mV 86.71mV 38.04mV 35.60mV 32.28mV	25.90mV 17.95mV 28.76mV 21.33mV 30.34mV 25.82mV 33.97mV 29.00mV 37.18mV 33.59mV 39.02mV 43.31mV 45.36mV 40.19mV 51.28mV 61.90mV 86.71mV 70.80mV 38.04mV 89.69mV 35.60mV 71.95mV	25.90mV 17.95mV 11.21mV 28.76mV 21.33mV 10.95mV 30.34mV 25.82mV 12.44mV 33.97mV 29.00mV 13.20mV 37.18mV 33.59mV 13.82mV 39.02mV 43.31mV 14.90mV 45.36mV 40.19mV 21.34mV 51.28mV 46.07mV 21.09mV 70.00mV 61.90mV 36.41mV 86.71mV 70.80mV 40.68mV 38.04mV 89.69mV 25.11mV 35.60mV 71.95mV 14.43mV	25.90mV 17.95mV 11.21mV 18.40mV 28.76mV 21.33mV 10.95mV 19.98mV 30.34mV 25.82mV 12.44mV 19.83mV 33.97mV 29.00mV 13.20mV 10.71mV 37.18mV 33.59mV 13.82mV 12.09mV 39.02mV 43.31mV 14.90mV 13.97mV 45.36mV 40.19mV 21.34mV 18.00mV 51.28mV 46.07mV 21.09mV 18.81mV 70.00mV 61.90mV 36.41mV 21.26mV 86.71mV 70.80mV 40.68mV 22.12mV 35.60mV 71.95mV 14.43mV 16.97mV 32.28mV 65.86mV 21.70mV 16.67mV

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

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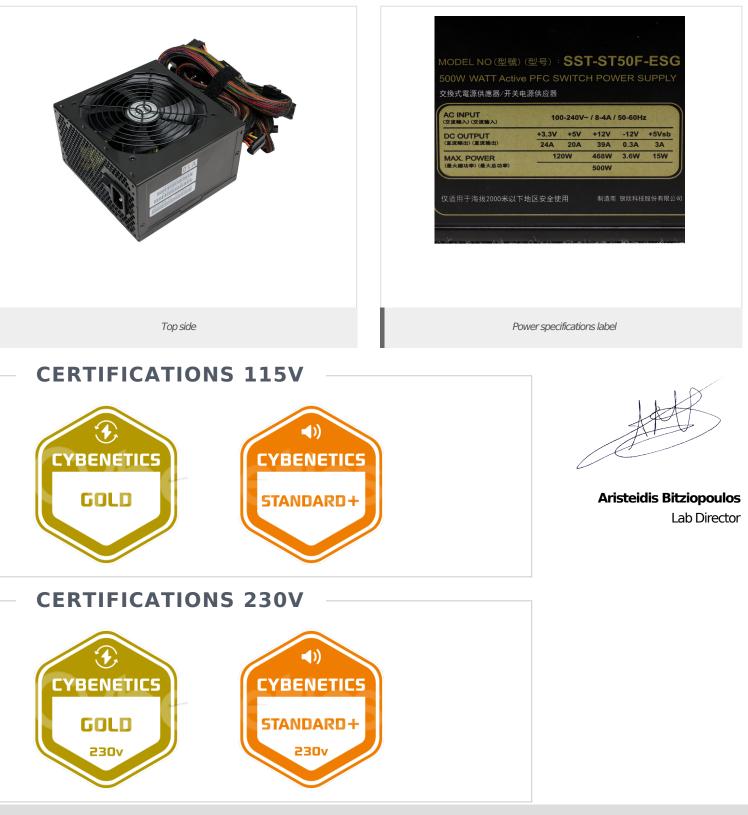
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Anex

SilverStone Strider Essential 500W



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