

SilverStone SX1000R Platinum

Lab ID#: SL10002140

Receipt Date: Dec 24, 2022

Test Date: Feb 22, 2023

Report: 23PS2140A

Report Date: Feb 22, 2023

DUT INFORMATION	
Brand	SilverStone
Manufacturer (OEM)	Enhance Electronics
Series	SFX-L Series
Model Number	SST-SX1000-LPT
Serial Number	
DUT Notes	

DUT SPECIFICATIONS							
Rated Voltage (Vrms)	100-240						
Rated Current (Arms)	12-6						
Rated Frequency (Hz)	60-50						
Rated Power (W)	1000						
Туре	SFX-L						
Cooling	120mm Double Ball Bearing Fan (B1201512HB)						
Semi-Passive Operation	/						
Cable Design	Fully Modular						

TEST EQUIPMENT	
Electronic Loads	Chroma 63601-5 x2 Chroma 63600-2 63640-80-80 x10 63610-80-20
AC Sources	Chroma 6530, APM SP300VAC4000W-P
Power Analyzers	RS HMC8015, N4L PPA1530, N4L PPA5530
Oscilloscopes	Picoscope 4444, Rigol DS7014, 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, Keithley 2015 - THD
UPS	FSP Champ Tower 3kVA, CyberPower OLS3000E 3kVA
Isolation Transformer	4kVA

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RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6 (+-2°C / +- 3.6°F)
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	/
ALPM (Alternative Low Power Mode) compatible	/
ATX v3.0 PSU Power Excursion	✓

115V			
Average Efficiency	90.435%		
Efficiency With 10W (≤500W) or 2% (>500W)	70.003		
Average Efficiency 5VSB	84.669%		
Standby Power Consumption (W)	0.0735000		
Average PF	0.989		
Avg Noise Output	33.91 dB(A)		
Efficiency Rating (ETA)	PLATINUM		
Noise Rating (LAMBDA)	Standard++		

230V	
Average Efficiency	92.553%
Average Efficiency 5VSB	84.208%
Standby Power Consumption (W)	0.1330000
Average PF	0.941
Avg Noise Output	35.52 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Standard+

POWER SPECIFICATIONS								
Rail 3.3V 5V 12V 5VSB -12V								
	Amps	25	25	83.3	3	0.3		
Max. Power	Watts	125		999.6	15	3.6		
Total Max. Power (W)	1000							

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CABLES AND CONNECTORS Modular Cables Description Cable Count Connector Count (Total) In Cable Capacitors Gauge 1 1 16-22AWG ATX connector 20+4 pin (300mm) No 2 2 16AWG 4+4 pin EPS12V (410mm) No 4 6+2 pin PCle (410mm+155mm) 2 16-18AWG No 1 1 16-24AWG 12+4 pin PCle (400mm) (600W) No SATA (300mm+195mm+95mm+95mm) 2 8 18AWG No 18-22AWG 1 3/1 4-pin Molex (300mm+200mm+200mm) / FDD (+100mm) No

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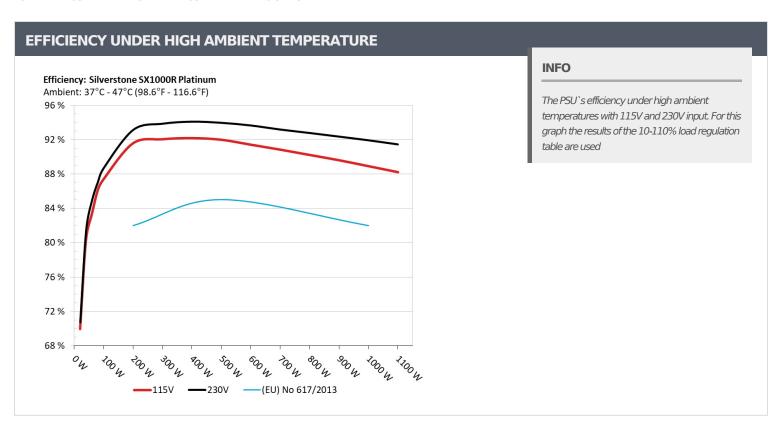
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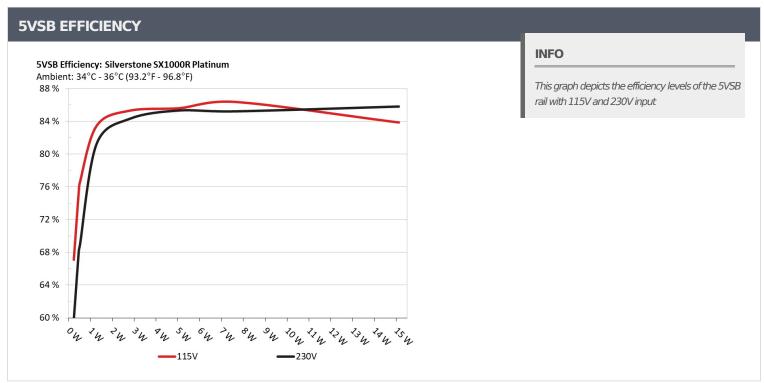
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5VSB EFFI	CIENCY -115V (ERP	LOT 3/6 & CEC)		
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.229W	67.1160/	0.02
	5.099V	0.342W	67.116%	115.13V
2	0.09A	0.459W	75 5120/	0.035
	5.098V	0.608W	75.512%	115.14V
2	0.55A	2.799W	05.2750/	0.175
3	5.089V	3.282W	85.275%	115.14V
4	1A	5.08W	OF F740/	0.277
4	5.079V	5.937W	85.574%	115.14V
-	1.5A	7.605W	05 2250/	0.348
5	5.069V	8.809W	86.336%	115.14V
-	3A	15.115W	02.020/	0.456
6	5.038V	18.032W	83.83%	115.14V

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)						
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts		
-	0.045A	0.229W	E0 03E0/	0.007		
1	5.099V	0.385W	59.825%	230.36V		
2	0.09A	0.459W	60.010/	0.012		
2	5.098V	0.673W	68.21%	230.37V		
_	0.55A	2.799W	04 2270/	0.057		
3	5.088V	3.318W	84.327%	230.36V		
	1A	5.08W	OF 2200/	0.101		
4	5.079V	5.952W	85.339%	230.37V		
_	1.5A	7.605W	05 0070/	0.145		
5	5.069V	8.922W	85.227%	230.37V		
	3A	15.115W	05 0120/	0.249		
6	5.038V	17.614W	85.813%	230.37V		

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115V

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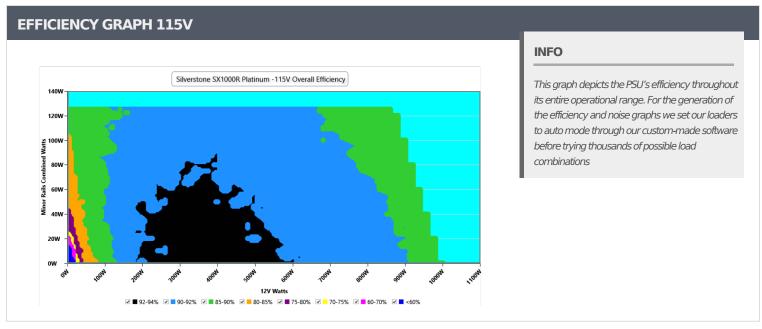
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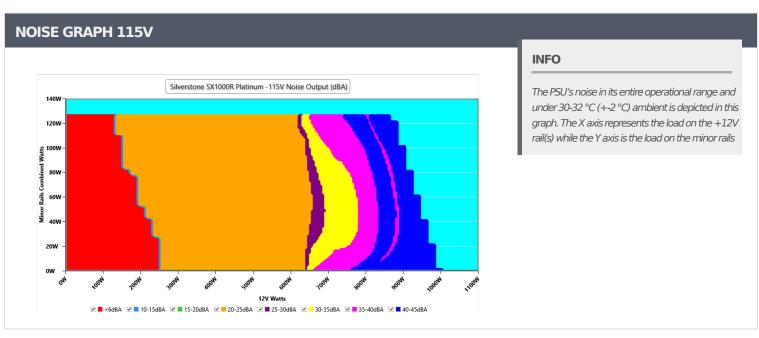
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0.004

N/A

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N/A

N/A

VAMPIRE POWER -115V										
Detailed Results										
	Average	Min	Limit Min	Max	Limit Max	Result				
Mains Voltage RMS:	115.15 V	115.14 V	113.85 V	115.17 V	116.15 V	PASS				
Mains Frequency:	60.00 Hz	59.93 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS				
Mains Voltage CF:	1.415	1.415	1.340	1.416	1.490	PASS				
Mains Voltage THD:	0.13 %	0.11 %	N/A	0.15 %	2.00 %	PASS				
Real Power:	0.073 W	0.066 W	N/A	0.082 W	N/A	N/A				
Apparent Power:	17.063 W	17.059 W	N/A	17.067 W	N/A	N/A				

INFO

Power Factor:

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

N/A

N/A

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СОМ	COMMISSION REGULATION (EU) NO 617/2013 TESTING 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/	6.494A	1.97A	1.971A	0.986A	99.998	07.4200/	0	<6.0	44.35°C	0.979	
10%	12.071V	5.076V	3.348V	5.072V	114.389	87.426%	0		40.09°C	115.12V	
200/	14.016A	2.961A	2.963A	1.186A	199.947	01.0000/	•	<6.0	44.86°C	0.973	
20%	12.061V	5.067V	3.341V	5.06V	218.284	91.603%	0		40.34°C	115.1V	
E00/	37.254A	4.959A	4.967A	1.792A	499.325	02.0150/	1010	22.7	42.23°C	0.997	
50%	12.048V	5.042V	3.322V	5.023V	542.619	92.015%	1010	22.7	48.16°C	115.06V	
1000/	75.962A	9.005A	9.033A	3.028A	999.438	00.0350/	2101	47.0	45.4°C	0.999	
100%	11.977V	4.997V	3.287V	4.954V	1123.799	88.935%	2191		55.48°C	114.95V	

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230V

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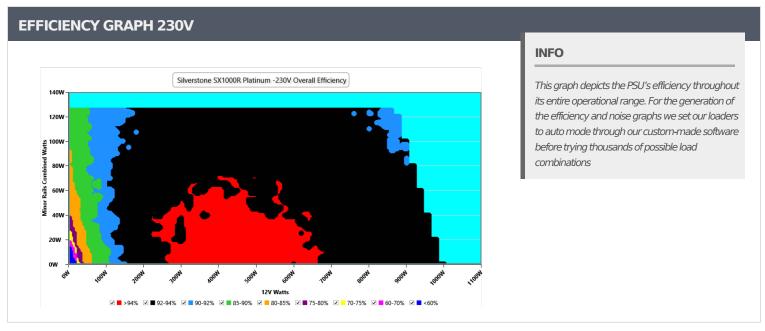
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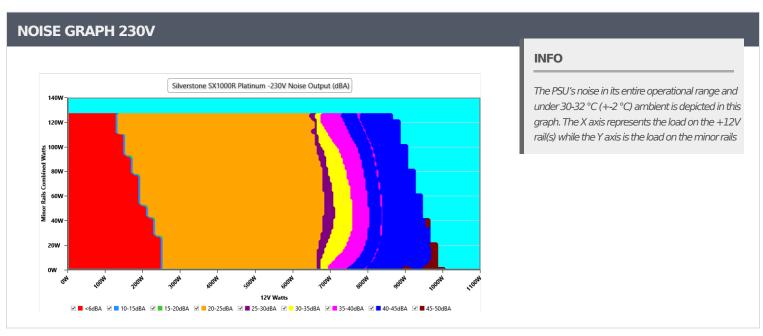
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VAMPIRE POWER -230V

Detailed Results									
	Average Min Limit Min Max Limit Max Res								
Mains Voltage RMS:	230.37 V	230.35 V	227.70 V	230.39 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:	0.15 %	0.13 %	N/A	0.16 %	2.00 %	PASS			
Real Power:	0.133 W	0.120 W	N/A	0.147 W	N/A	N/A			
Apparent Power:	56.961 W	56.948 W	N/A	56.967 W	N/A	N/A			
Power Factor:	0.002	N/A	N/A	N/A	N/A	N/A			

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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COMMISSION REGULATION (EU) NO 617/2013 TESTING 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%	6.494A	1.97A	1.972A	0.986A	100.014	88.715%	0	<6.0	44.87°C	0.825
	12.075V	5.077V	3.348V	5.071V	112.766				40.55°C	230.38V
20%	14.010A	2.961A	2.964A	1.186A	199.966	93.143%	0	<6.0	45.86°C	0.913
	12.067V	5.068V	3.341V	5.059V	214.7				41.24°C	230.37V
50%	37.261A	4.959A	4.968A	1.792A	499.449	93.975%	1010	22.7	42.26°C	0.959
	12.048V	5.043V	3.322V	5.023V	531.479				48.23°C	230.35V
100%	75.966A	9.007A	9.035A	3.029A	999.563	91.942%	2193	47.1	45.1℃	0.982
	11.978V	4.997V	3.287V	4.953V	1087.191				55.13°C	230.3V

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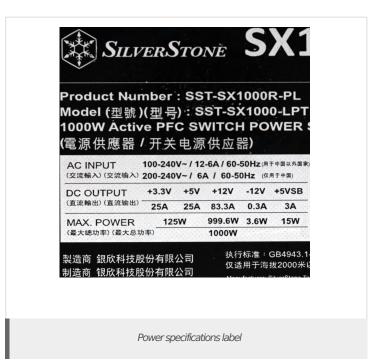
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Aristeidis BitziopoulosLab Director

CERTIFICATIONS 230V





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