

Anex**SilverStone DA1000 Gold**

Lab ID#: SL10002037
Receipt Date: Jun 23, 2022
Test Date: Jul 7, 2022

Report: 22PS2037A
Report Date: Jul 11, 2022

DUT INFORMATION

Brand	SilverStone
Manufacturer (OEM)	CWT
Series	Decathlon
Model Number	SST-AX1000HCBR-A
Serial Number	
DUT Notes	

DUT SPECIFICATIONS

Rated Voltage (Vrms)	100-240
Rated Current (Arms)	13
Rated Frequency (Hz)	50-60
Rated Power (W)	1000
Type	ATX12V
Cooling	140mm Rifle Bearing Fan (HA1425M12F-Z)
Semi-Passive Operation	X
Cable Design	Semi 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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RESULTS

Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓
ALPM (Alternative Low Power Mode) compatible	✓

115V

Average Efficiency	86.958%
Efficiency With 10W (≤500W) or 2% (>500W)	44.922
Average Efficiency 5VSB	77.692%
Standby Power Consumption (W)	0.0129000
Average PF	0.985
Avg Noise Output	35.66 dB(A)
Efficiency Rating (ETA)	SILVER
Noise Rating (LAMBDA)	Standard+

230V

Average Efficiency	89.537%
Average Efficiency 5VSB	78.528%
Standby Power Consumption (W)	0.0789000
Average PF	0.949
Avg Noise Output	35.20 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard+

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	83.33	3	0.3
	Watts	100		999.96	15	3.6
Total Max. Power (W)		1000				

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

Hold-Up Time (ms)	13.6
AC Loss to PWR_OK Hold Up Time (ms)	12.1
PWR_OK Inactive to DC Loss Delay (ms)	1.5

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CABLES AND CONNECTORS

Captive Cables

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (640mm)	1	1	18-22AWG	No
8 pin EPS12V (640mm) / 4+4 pin EPS12V (+150mm)	1	1 / 1	18AWG	No

Modular Cables

6+2 pin PCIe (500mm+150mm)	4	8	18AWG	No
SATA (500mm+150mm+150mm+150mm)	3	12	18AWG	No
4-pin Molex (500mm+150mm+150mm+150mm)	1	4	18AWG	No

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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 Integrations CAP200DG (Discharge IC)
Inrush Protection	1x NTC Thermistor SCK-2R512 (2.5 Ohm)
Bridge Rectifier(s)	1x GBU1506 (600V, 15A @ 100°C)
APFC MOSFETs	2x Infineon IPA60R125P6 (600V, 19A @ 100°C, Rds(on): 0.125Ohm) & Champion CM03X (reduce the no load consumption)
APFC Boost Diode	1x On Semiconductor FFSP0865A (650V, 8A @ 155°C)
Bulk Cap(s)	1x Nippon Chemi-Con (400V, 680uF, 2,000h @ 105°C, KMR)
Main Switchers	2x Infineon IPA60R190P6 (600V, 12.7A @ 100°C, Rds(on): 0.19Ohm)
APFC Controller	Champion CM6500UNX
Resonant Controller	Champion CM6901X
Topology	Primary side: APFC, Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	4x International Rectifier IRFH7004PbF (40V, 164A @ 100°C, Rds(on): 1.4mOhm)
5V & 3.3V	DC-DC Converters: 2x UBIQ QM3054M6 (30V, 61A @ 100°C, Rds(on): 4.8mOhm) & 2x UBIQ QN3107M6N (30V, 70A @ 100°C, Rds(on): 2.6mOhm) PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic: 8x Chengx (2-4,000h @ 105°C, GR), 3x Jun Fu (2-5,000h @ 105°C, WL), 2x CapXon (2-5,000h @ 105°C, KF) Polymer: 9x CapXon, 4x no info
Supervisor IC	IN1S429I-SCG (OVP, UVP, OCP, SCP, PG)
Fan Model	Hong Hua HA1425M12F-Z (140mm, 12V, 0.36A, Rifle Bearing Fan)
5VSB Circuit	
Rectifier	1x PS1045L SBR (45V, 10A)
Standby PWM Controller	Excelliance MOS EM8569D

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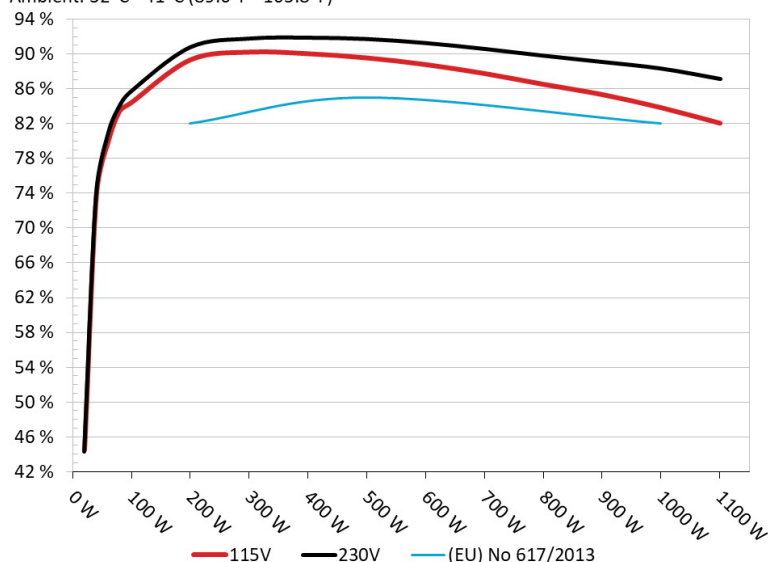
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EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

Efficiency: SilverStone Buff 1000 Bronze

Ambient: 32°C - 41°C (89.6°F - 105.8°F)



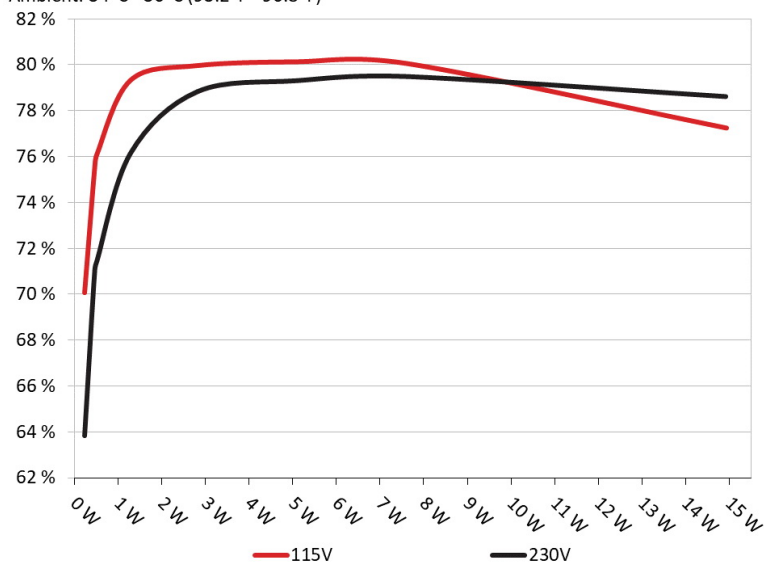
INFO

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

5VSB Efficiency: SilverStone Buff 1000 Bronze

Ambient: 34°C - 36°C (93.2°F - 96.8°F)



INFO

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

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SilverStone DA1000 Gold

5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.232W	70.08%	0.034
	5.144V	0.331W		115.17V
2	0.09A	0.463W	75.534%	0.062
	5.144V	0.612W		115.16V
3	0.55A	2.818W	79.974%	0.263
	5.122V	3.523W		115.17V
4	1A	5.1W	80.137%	0.341
	5.098V	6.366W		115.16V
5	1.5A	7.607W	80.065%	0.386
	5.07V	9.499W		115.16V
6	3.001A	14.93W	77.253%	0.447
	4.976V	19.327W		115.16V

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.232W	63.826%	0.011
	5.145V	0.364W		230.4V
2	0.09A	0.463W	71.002%	0.02
	5.144V	0.653W		230.4V
3	0.55A	2.819W	78.816%	0.105
	5.123V	3.579W		230.39V
4	1A	5.1W	79.293%	0.172
	5.098V	6.431W		230.4V
5	1.5A	7.593W	79.472%	0.226
	5.06V	9.556W		230.4V
6	3.001A	14.924W	78.6%	0.319
	4.974V	18.988W		230.39V

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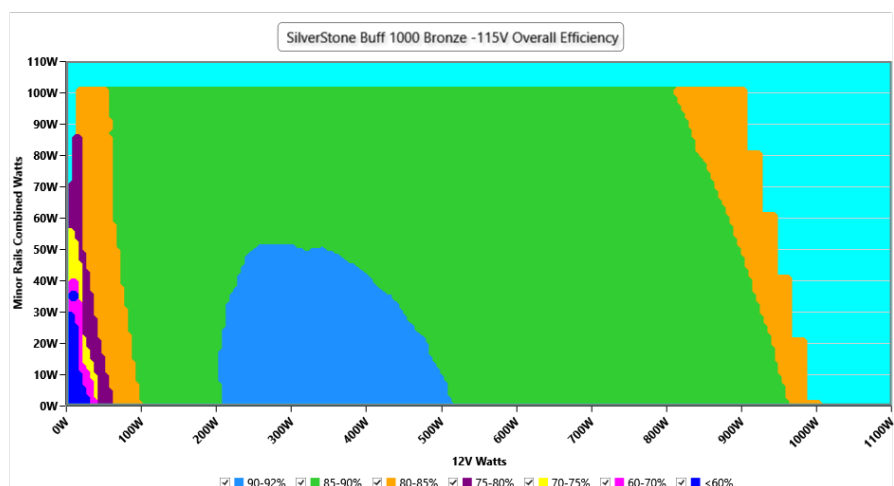
115V

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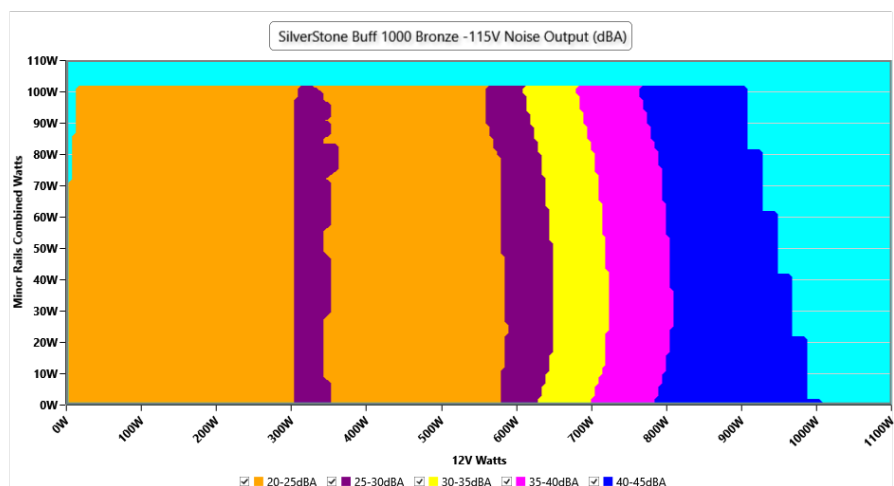
EFFICIENCY GRAPH 115V



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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VAMPIRE POWER -115V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.18 V	115.16 V	113.85 V	115.19 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.92 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:	0.013 W	0.011 W	N/A	0.015 W	N/A	N/A
Apparent Power:	9.604 W	9.601 W	N/A	9.608 W	N/A	N/A
Power Factor:	0.001	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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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
10%	6.522A	1.991A	1.981A	0.983A	100.038	84.48%	823	24.1	35.28°C	0.973
	12.027V	5.023V	3.333V	5.086V	118.42				39.66°C	115.15V
20%	14.067A	2.991A	2.974A	1.184A	200.004	89.369%	825	24.2	35.56°C	0.984
	12.020V	5.016V	3.33V	5.067V	223.8				40.25°C	115.13V
30%	21.990A	3.494A	3.472A	1.387A	300.071	90.251%	825	24.2	36.22°C	0.985
	12.006V	5.011V	3.327V	5.049V	332.482				41.46°C	115.1V
40%	29.917A	3.998A	3.971A	1.591A	399.952	90.066%	826	24.2	36.75°C	0.984
	11.991V	5.005V	3.324V	5.028V	444.062				42.38°C	115.07V
50%	37.506A	5.004A	4.97A	1.798A	499.683	89.587%	826	24.2	36.82°C	0.986
	11.976V	4.998V	3.321V	5.006V	557.757				42.88°C	115.04V
60%	45.185A	6.014A	5.97A	2.001A	600.218	88.819%	824	24.1	37.57°C	0.988
	11.960V	4.991V	3.318V	4.982V	675.774				44.2°C	115.01V
70%	52.814A	7.026A	6.972A	2.216A	699.979	87.79%	1034	31.4	38.89°C	0.99
	11.945V	4.983V	3.314V	4.965V	797.333				46.08°C	114.99V
80%	60.537A	8.004A	7.975A	2.326A	799.837	86.553%	1320	38.8	39.23°C	0.992
	11.928V	4.976V	3.311V	4.945V	924.1				47.64°C	114.95V
90%	68.611A	8.554A	8.466A	2.435A	899.812	85.377%	1547	42.7	40.05°C	0.993
	11.912V	4.97V	3.308V	4.929V	1053.926				49.48°C	114.92V
100%	76.512A	9.071A	8.99A	3.079A	999.832	83.872%	1707	44.6	40.44°C	0.994
	11.896V	4.962V	3.304V	4.873V	1192.086				50.48°C	114.89V
110%	84.365A	10.096A	10.093A	3.086A	1100.464	82.086%	1848	46.4	40.65°C	0.995
	11.879V	4.954V	3.299V	4.861V	1340.623				51.51°C	114.86V
CL1	0.118A	12.034A	11.944A	0A	101.333	80.782%	820	23.9	36.17°C	0.976
	12.012V	5.004V	3.324V	5.119V	125.44				42.58°C	115.16V
CL2	0.116A	20.005A	0A	0A	101.397	78.984%	821	23.9	37.88°C	0.976
	12.022V	4.999V	3.326V	5.132V	128.373				44.95°C	115.14V
CL3	0.116A	0A	19.821A	0A	67.398	72.807%	816	23.6	38.5°C	0.962
	12.016V	5.023V	3.33V	5.117V	92.572				46.67°C	115.14V
CL4	83.939A	0A	0.001A	0.001A	1000.23	84.888%	1620	43.6	40.67°C	0.994
	11.916V	4.986V	3.315V	5.071V	1178.308				50.59°C	114.88V

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SilverStone DA1000 Gold

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	1.234A	0.497A	0.495A	0.195A	20.016	44.574%	823	24.1	32.22°C	0.898
	12.041V	5.031V	3.336V	5.133V	44.903				35.27°C	115.17V
40W	2.717A	0.696A	0.693A	0.293A	40.012	73.79%	823	24.1	33.58°C	0.921
	12.037V	5.029V	3.335V	5.128V	54.222				36.87°C	115.17V
60W	4.200A	0.896A	0.891A	0.391A	60.011	79.95%	823	24.1	33.92°C	0.952
	12.034V	5.027V	3.335V	5.121V	75.06				37.63°C	115.17V
80W	5.682A	1.095A	1.089A	0.489A	79.983	83.523%	824	24.1	34.31°C	0.964
	12.031V	5.026V	3.334V	5.115V	95.762				38.26°C	115.16V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	13.33mV	6.24mV	5.89mV	5.86mV	Pass
20% Load	20.47mV	7.62mV	7.42mV	6.63mV	Pass
30% Load	16.24mV	7.98mV	8.55mV	7.04mV	Pass
40% Load	16.91mV	11.10mV	12.18mV	8.41mV	Pass
50% Load	18.39mV	9.87mV	10.80mV	13.46mV	Pass
60% Load	20.43mV	10.94mV	12.54mV	17.18mV	Pass
70% Load	22.17mV	12.22mV	13.56mV	16.98mV	Pass
80% Load	24.52mV	14.52mV	23.18mV	14.12mV	Pass
90% Load	27.17mV	16.11mV	24.77mV	19.93mV	Pass
100% Load	37.58mV	18.14mV	27.20mV	19.06mV	Pass
110% Load	40.25mV	18.41mV	29.38mV	19.11mV	Pass
Crossload1	17.17mV	13.87mV	19.81mV	9.88mV	Pass
Crossload2	13.43mV	19.28mV	6.70mV	6.42mV	Pass
Crossload3	11.44mV	9.51mV	27.33mV	11.06mV	Pass
Crossload4	37.70mV	13.98mV	18.21mV	12.39mV	Pass

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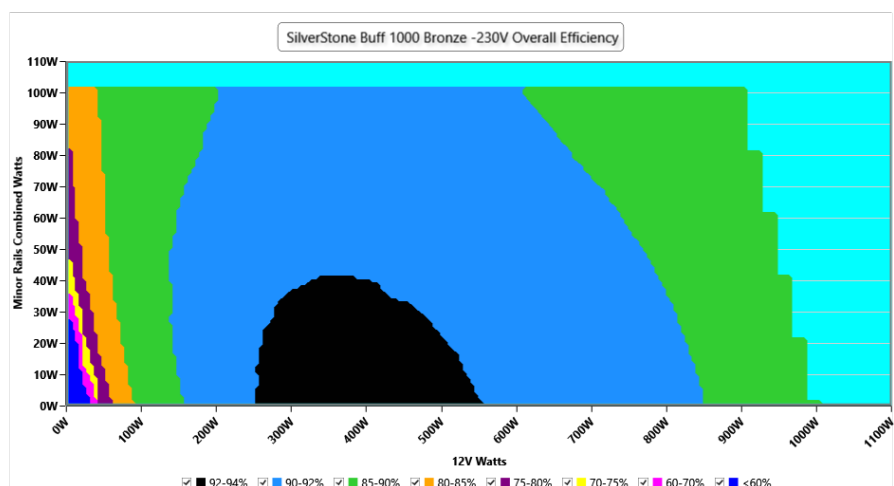
230V

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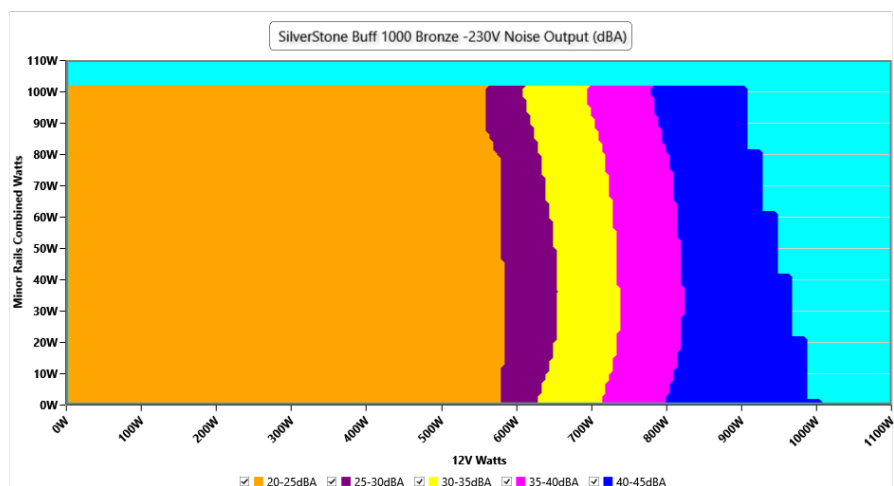
EFFICIENCY GRAPH 230V



INFO

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NOISE GRAPH 230V



INFO

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VAMPIRE POWER -230V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.39 V	230.39 V	227.70 V	230.42 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:	0.14 %	0.13 %	N/A	0.16 %	2.00 %	PASS
Real Power:	0.079 W	0.067 W	N/A	0.096 W	N/A	N/A
Apparent Power:	32.129 W	32.117 W	N/A	32.141 W	N/A	N/A
Power Factor:	0.002	N/A	N/A	N/A	N/A	N/A

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10-110% 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
10%	6.521A	1.991A	1.98A	0.983A	100.033	85.716%	824	24.1	35.62°C	0.842
	12.027V	5.024V	3.333V	5.086V	116.702				39.88°C	230.41V
20%	14.066A	2.991A	2.974A	1.185A	199.994	90.761%	825	24.2	35.98°C	0.923
	12.020V	5.016V	3.33V	5.067V	220.352				40.54°C	230.4V
30%	21.989A	3.494A	3.472A	1.387A	300.055	91.758%	826	24.2	36.14°C	0.95
	12.006V	5.01V	3.327V	5.048V	327.008				40.96°C	230.39V
40%	29.904A	3.998A	3.972A	1.593A	399.802	91.859%	828	24.5	36.84°C	0.961
	11.992V	5.004V	3.324V	5.023V	435.229				41.86°C	230.36V
50%	37.499A	5.005A	4.97A	1.799A	499.604	91.706%	828	24.5	37.06°C	0.968
	11.976V	4.997V	3.32V	5.005V	544.789				42.54°C	230.35V
60%	45.176A	6.014A	5.97A	2.001A	600.127	91.242%	824	24.1	37.72°C	0.973
	11.961V	4.99V	3.317V	4.98V	657.736				43.73°C	230.34V
70%	52.808A	7.027A	6.973A	2.217A	699.912	90.566%	1016	31.0	38.25°C	0.977
	11.945V	4.983V	3.314V	4.963V	772.826				45.31°C	230.33V
80%	60.528A	8.003A	7.977A	2.327A	799.753	89.792%	1322	38.8	38.65°C	0.979
	11.928V	4.976V	3.31V	4.943V	890.672				46.85°C	230.31V
90%	68.603A	8.556A	8.468A	2.436A	899.738	89.072%	1509	42.0	39.41°C	0.98
	11.913V	4.969V	3.307V	4.928V	1010.127				48.45°C	230.3V
100%	76.491A	9.072A	8.991A	3.079A	999.717	88.313%	1670	44.3	40.7°C	0.982
	11.897V	4.962V	3.304V	4.873V	1132.012				50.71°C	230.29V
110%	84.360A	10.097A	10.094A	3.087A	1100.391	87.116%	1852	46.4	40.85°C	0.983
	11.878V	4.953V	3.299V	4.86V	1263.128				51.75°C	230.27V
CL1	0.117A	12.035A	11.944A	0A	101.327	81.844%	820	23.9	36.61°C	0.854
	12.012V	5.003V	3.324V	5.119V	123.801				42.13°C	230.4V
CL2	0.117A	20.015A	0A	0A	101.41	80.234%	818	23.8	37.21°C	0.857
	12.020V	4.997V	3.326V	5.132V	126.397				44.24°C	230.4V
CL3	0.116A	0A	19.827A	0A	67.403	73.39%	817	23.6	38.28°C	0.796
	12.014V	5.023V	3.329V	5.117V	91.846				46.52°C	230.41V
CL4	83.944A	0A	0.001A	0.001A	1000.233	89.021%	1626	43.6	40.46°C	0.981
	11.915V	4.985V	3.315V	5.07V	1123.601				51.35°C	230.29V

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Anex

SilverStone DA1000 Gold

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	1.234A	0.497A	0.495A	0.195A	20.01	44.318%	823	24.1	33.48°C	0.606
	12.040V	5.031V	3.336V	5.134V	45.152				36.59°C	230.41V
40W	2.716A	0.696A	0.693A	0.293A	40.008	73.744%	823	24.1	33.59°C	0.66
	12.037V	5.029V	3.335V	5.128V	54.252				36.9°C	230.41V
60W	4.200A	0.895A	0.891A	0.391A	60.007	80.71%	824	24.1	33.89°C	0.747
	12.034V	5.027V	3.335V	5.122V	74.348				37.45°C	230.41V
80W	5.680A	1.095A	1.089A	0.489A	79.976	84.036%	824	24.1	34.63°C	0.803
	12.031V	5.026V	3.334V	5.115V	95.169				38.31°C	230.41V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	13.33mV	6.60mV	5.78mV	5.71mV	Pass
20% Load	20.00mV	7.52mV	7.73mV	6.52mV	Pass
30% Load	15.10mV	8.23mV	8.55mV	7.29mV	Pass
40% Load	16.65mV	11.46mV	12.49mV	8.62mV	Pass
50% Load	18.49mV	9.92mV	11.26mV	13.31mV	Pass
60% Load	20.38mV	11.25mV	12.49mV	16.82mV	Pass
70% Load	22.68mV	12.22mV	13.77mV	15.96mV	Pass
80% Load	24.47mV	15.09mV	23.59mV	13.97mV	Pass
90% Load	27.07mV	16.21mV	25.28mV	20.24mV	Pass
100% Load	37.65mV	18.38mV	27.30mV	17.61mV	Pass
110% Load	40.25mV	18.78mV	30.16mV	18.50mV	Pass
Crossload1	15.91mV	14.08mV	19.85mV	10.41mV	Pass
Crossload2	17.06mV	19.53mV	6.76mV	6.27mV	Pass
Crossload3	11.24mV	9.61mV	26.56mV	10.81mV	Pass
Crossload4	38.01mV	14.69mV	18.16mV	12.00mV	Pass

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Anex

SilverStone DA1000 Gold



Top side



Power specifications label

CERTIFICATIONS 115V



CERTIFICATIONS 230V



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