

EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

Corsair SF850L

Lab ID#: CR85002091 Receipt Date: Nov 11, 2022 Test Date: Nov 22, 2022

DUT INFORMATION

Brand	Corsair
Manufacturer (OEM)	Great Wall
Series	SFL
Model Number	RPS0155
Serial Number	22304850000001500307
DUT Notes	

Report:	22PS2091A
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Report Date: Nov 23, 2022

DUT SPECIFICATIONS				
Rated Voltage (Vrms)	100-240			
Rated Current (Arms)	10-5			
Rated Frequency (Hz)	47-63			
Rated Power (W)	850			
Туре	SFX-L			
Cooling	120mm Fluid Dynamic Bearing Fan (NR1215)			
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

Corsair SF850L

92.333% 83.020% 0.0988000 0.951 35.92 dB(A) PLATINUM Standard+

RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	1
ALPM (Alternative Low Power Mode) compatible	1
ATX 3.0 Ready	✓

115V		230V
Average Efficiency	90.577%	Average Efficiency
Efficiency With 10W (≤500W) or 2% (>500W)	74.797	Average Efficiency 5VSB
Average Efficiency 5VSB	83.657%	Standby Power Consumption (W)
Standby Power Consumption (W)	0.0501000	Average PF
Average PF	0.984	Avg Noise Output
Avg Noise Output	36.09 dB(A)	Efficiency Rating (ETA)
Efficiency Rating (ETA)	PLATINUM	Noise Rating (LAMBDA)
Noise Rating (LAMBDA)	Standard+	

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	70.8	3	0
	Watts	150		850	15	0
Total Max. Power (W)		850				

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

Hold-Up Time (ms)	21
AC Loss to PWR_OK Hold Up Time (ms)	18.5
PWR_OK Inactive to DC Loss Delay (ms)	2.5

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CABLES AND CONNECTORS					
Modular Cables					
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors	
ATX connector 20+4 pin (300mm)	1	1	16-20AWG	No	
4+4 pin EPS12V (400mm)	2	2	16AWG	No	
12+2 pin PCIe (410mm) (600W)	1	1	16-24AWG	No	
6+2 pin PCIe (410mm)	2	2	16AWG	No	
6+2 pin PCIe (400mm+100mm)	1	2	16-18AWG	No	
SATA (110mm+115mm+115mm+115mm)	2	8	18AWG	No	
4 pin Molex (100mm+110mm+110mm)	1	3	18AWG	No	
AC Power Cord (1380mm) - C13 coupler	1	1	18AWG		

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General Data	
Manufacturer (OEM)	Great Wall
РСВ Туре	Double Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 3x CM chokes, 1x MOV
Inrush Protection	1x NTC Thermistor SCK-056 (5 Ohm) & Relay
Bridge Rectifier(s)	2x Shindengen US30KB8R (800V, 10A @ 97°C)
APFC MOSFETs	1xVishay SiHG065N60E (600V, 25A @ 100°C, Rds(on): 0.065Ohm)
APFC Boost Diode	1x ROHM SCS310AH (650V, 10A @ 135°C)
Bulk Cap(s)	2x Rubycon (420V, 470uF & 330uF each or 800uf combined, 3,000h @ 105°C, MXK)
Main Switchers	2x On Semiconductor FCP104N60F (600V, 24A @ 100°C, Rds(on): 0.104Ohm)
Driver IC	1x NOVOSENSE NSi6602BD
APFC Controller	Champion CM6502UHHX
Resonant Controller	Champion CM6901X
Topology	Primary side: APFC, Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	6x Infineon BSC014N04LS (40V, 125A @ 100°C, Rds(on): 1.4mOhm)
5V & 3.3V	DC-DC Converters: 4x Advanced Power AP4024GEMT (30V, 60A, Rds(on): 4.5mOhm) PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic: 2x Rubycon (3-6,000h @ 105°C, YXG), 2x Rubycon (4-10,000h @ 105°C, YXF), Polymer: 9x NIC, 3x United Chemi-Con, 20x FPCAP, 4x Nichicon
Supervisor IC	IN1S429I-SCG (OCP,OVP, UVP, SCP, PG)
Fan Controller	Microchip PIC16F1824
Fan Model	Corsair NR1215 (120mm, 12V, 0.55A, Fluid Dynamic Bearing Fan)
5VSB Circuit	

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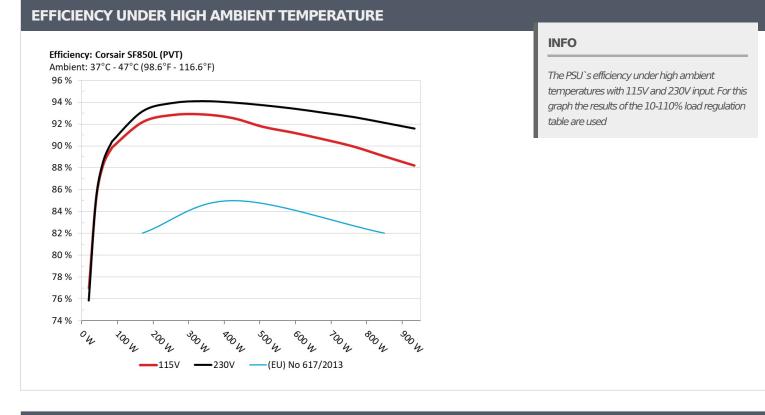
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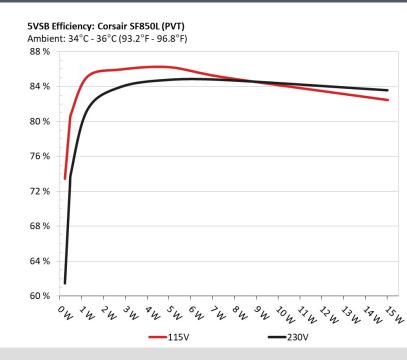


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5VSB EFFICIENCY



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	0.227W		0.03	
1	5.052V	0.311W	72.957%	114.86V	
2	0.09A	0.454W	70 510/	0.055	
2	5.051V	0.571W	79.51%	114.84V	
_	0.55A	2.772W	85.476%	0.249	
3	5.042V	3.243W		114.84V	
	1A	5.035W	85.744%	0.338	
4	5.036V	5.872W		114.85V	
5	1.5A	7.543W		0.399	
	5.029V	8.92W	84.567%	114.84V	
6	2.999A	15.023W		0.475	
	5.01V	18.325W	81.979%	114.84V	

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
-	0.045A	0.227W	co o 45%	0.011
1	5.051V	0.373W	60.945%	229.89V
2	0.09A	0.454W	71.060/	0.018
	5.05V	0.63W	71.96%	229.89V
	0.55A	2.771W		0.092
3	5.04V	3.32W	83.458%	229.89V
4	1A	5.029W	84.289%	0.156
	5.029V	5.967W		229.89V
5	1.5A	7.534W	04.2620/	0.214
	5.023V	8.941W	84.263%	229.88V
6	2.999A	14.999W		0.317
	5.001V	18.051W	83.086%	229.89V

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Corsair SF850L

115V

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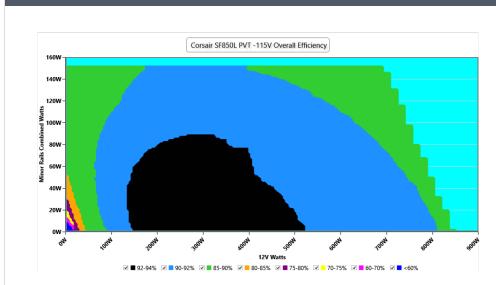
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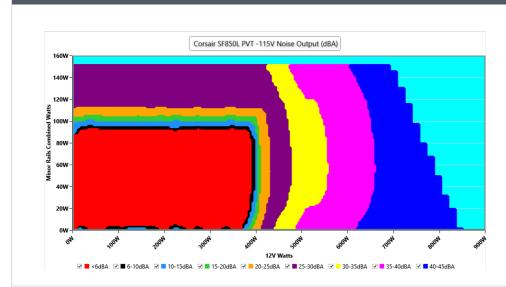
EFFICIENCY GRAPH 115V



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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VAMPIRE POWER -115V

Detailed Results										
	Average	Min	Limit Min	Max	Limit Max	Result				
Mains Voltage RMS:	114.85 V	114.80 V	113.85 V	114.89 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:	1.417	1.416	1.340	1.418	1.490	PASS				
Mains Voltage THD:	0.15 %	0.12 %	N/A	0.21%	2.00 %	PASS				
Real Power:	0.050 W	0.042 W	N/A	0.058 W	N/A	N/A				
Apparent Power:	10.264 W	10.235 W	N/A	10.298 W	N/A	N/A				
Power Factor:	0.005	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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10-1	10% LOA	D 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/	5.232A	1.986A	1.979A	0.996A	84.989	00 7400/	0	-6.0	44.24°C	0.958
10%	12.115V	5.036V	3.335V	5.02V	94.693	89.749%	0	<6.0	39.89°C	114.83V
20%	11.476A	2.98A	2.97A	1.197A	169.919	02 1650/	0	-6.0	44.83°C	0.97
20%	12.113V	5.034V	3.333V	5.011V	184.364	92.165%	0	<6.0	40.21°C	114.8V
200/	18.070A	3.477A	3.466A	1.399A	254.914	02 02 40/	0	-6.0	46.18°C	0.977
30%	12.112V	5.033V	3.332V	5.003V	274.62	92.824%	0	<6.0	41.08°C	114.79V
400/	24.669A	3.975A	3.964A	1.602A	339.987	02.0700/	0	-6.0	47.15°C	0.984
40%	12.112V	5.032V	3.33V	4.994V	366.056	92.878%	0	<6.0	41.53°C	114.76V
E00/	30.903A	4.972A	4.958A	1.805A	424.745	02 5270/	702	20.2	42.25°C	0.988
50%	12.110V	5.029V	3.328V	4.985V	459.001	92.537%	783	20.2	48.25°C	114.74V
C00/	37.102A	5.969A	5.953A	2A	509.214	01 7410/	1250	35.1	42.81°C	0.99
50%	12.114V	5.026V	3.326V	4.975V	555.057	91.741%			49.33°C	114.72V
700/	43.387A	6.968A	6.95A	2.215A	594.581	01 2050/	1456	38.7	43.06°C	0.992
70%	12.112V	5.024V	3.324V	4.964V	651.914	91.205%			50.13°C	114.69V
2007	49.670A	7.967A	7.943A	2.32A	679.404	00 0010/	1747	43.3	43.42°C	0.993
80%	12.110V	5.022V	3.322V	4.956V	749.889	90.601%	1747	43.3	51.43°C	114.67V
2007	56.349A	8.464A	8.428A	2.425A	764.793	00 0070/	1007	46 5	44.72°C	0.994
90%	12.109V	5.021V	3.321V	4.947V	850.46	89.927%	1997	46.5	53.97°C	114.64V
1000/	62.764A	8.964A	8.945A	3.043A	849.618		2265	40.2	45.55°C	0.995
100%	12.108V	5.019V	3.319V	4.928V	954.09	89.05%	2265	49.2	55.59°C	114.62V
1100/	69.044A	9.962A	10.034A	3.048A	934.2	00.2000/	2270	F0 4	46.58°C	0.996
110%	12.107V	5.018V	3.317V	4.921V	1059.112	88.206%	2379	50.4	57.52°C	114.59V
CI 1	0.114A	17.938A	17.918A	0A	151.27	05 2070/	1200	25.0	42.76°C	0.971
CL1	12.118V	5.034V	3.325V	5.024V	177.342	85.297%	1309	35.8	48.28°C	114.8V
	0.114A	19.838A	0A	0A	101.382	04 650/	1077	20.4	43.19°C	0.974
CL2	12.121V	5.041V	3.329V	5.036V	119.766	84.65%	1077	30.4	50.26°C	114.82V
	0.114A	0A	19.794A	0A	67.363	01 500/	1007	25.7	44.04°C	0.953
CL3	12.117V	5.032V	3.334V	5.033V	82.632	81.52%	1307	35.7	52.07°C	114.83V
	70.146A	0A	0A	0A	849.396	00.0429/	2040	47.0	45.51°C	0.995
CL4	12.109V	5.022V	3.324V	4.992V	945.43	89.842%	2049	47.6	55.44°C	114.62V

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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
2014/	1.225A	0.496A	0.494A	0.198A	19.987	76.0040/			40.37°C	0.852
20W	12.113V	5.036V	3.337V	5.042V	25.964	76.984%	0	<6.0	37.23°C	114.85V
40144	2.698A	0.695A	0.692A	0.298A	39.987	05 1010/	0	<6.0	41.06°C	0.923
40W	12.113V	5.036V	3.337V	5.038V	46.98	85.121%	0		37.75°C	114.84V
CO 144	4.170A	0.893A	0.89A	0.397A	59.986	00.07.40/	_	<6.0	41.89°C	0.948
60W	12.114V	5.036V	3.337V	5.033V	67.954	88.274%	0		38.11°C	114.83V
00144	5.638A	1.092A	1.088A	0.497A	79.935	00.0620/	0		43.44°C	0.953
80W	12.114V	5.036V	3.337V	5.029V	88.949	89.863%	0	<6.0	39.45°C	114.83V

RIPPLE MEASUREMENTS 115V

12V	5V	3.3V	5VSB	Pass/Fail
6.83mV	6.86mV	6.32mV	5.37mV	Pass
26.99mV	14.08mV	7.43mV	30.05mV	Pass
29.01mV	13.16mV	8.39mV	32.58mV	Pass
33.62mV	15.14mV	7.64mV	33.65mV	Pass
8.35mV	8.64mV	7.48mV	6.53mV	Pass
31.14mV	16.16mV	9.76mV	35.32mV	Pass
27.90mV	18.80mV	15.16mV	29.60mV	Pass
33.27mV	18.60mV	19.16mV	32.74mV	Pass
10.58mV	15.09mV	14.11mV	7.08mV	Pass
16.44mV	11.99mV	12.50mV	12.56mV	Pass
17.16mV	11.10mV	12.02mV	14.38mV	Pass
11.96mV	12.47mV	12.53mV	8.73mV	Pass
9.87mV	12.35mV	7.64mV	8.20mV	Pass
32.55mV	15.35mV	10.72mV	32.89mV	Pass
15.10mV	8.93mV	11.27mV	9.43mV	Pass
	6.83mV 26.99mV 29.01mV 33.62mV 33.62mV 31.14mV 31.14mV 27.90mV 33.27mV 33.27mV 10.58mV 10.58mV 10.58mV 10.58mV 11.96mV 11.96mV 32.55mV	6.83mV 6.86mV 26.99mV 14.08mV 29.01mV 13.16mV 33.62mV 15.14mV 8.35mV 8.64mV 31.14mV 16.16mV 27.90mV 18.80mV 33.27mV 18.60mV 10.58mV 15.09mV 16.44mV 11.99mV 17.16mV 11.10mV 11.96mV 12.47mV 9.87mV 12.35mV	6.83mV 6.86mV 6.32mV 26.99mV 14.08mV 7.43mV 29.01mV 13.16mV 8.39mV 33.62mV 15.14mV 7.64mV 8.35mV 8.64mV 7.48mV 31.14mV 16.16mV 9.76mV 33.27mV 18.80mV 15.16mV 33.27mV 18.60mV 19.16mV 10.58mV 15.09mV 14.11mV 16.44mV 11.99mV 12.50mV 11.10mV 12.02mV 12.50mV 11.96mV 12.47mV 12.53mV 9.87mV 15.35mV 10.72mV	6.83mV 6.86mV 6.32mV 5.37mV 26.99mV 14.08mV 7.43mV 30.05mV 29.01mV 13.16mV 8.39mV 32.58mV 33.62mV 15.14mV 7.64mV 33.65mV 8.35mV 8.64mV 7.48mV 6.53mV 8.35mV 8.64mV 7.64mV 33.65mV 8.35mV 8.64mV 9.76mV 35.32mV 31.14mV 16.16mV 9.76mV 35.32mV 33.27mV 18.80mV 15.16mV 29.60mV 33.27mV 18.60mV 19.16mV 32.74mV 10.58mV 15.09mV 14.11mV 7.08mV 16.44mV 11.99mV 12.50mV 14.38mV 11.96mV 12.47mV 12.02mV 14.38mV 9.87mV 12.35mV 7.64mV 8.20mV 9.87mV 15.35mV 10.72mV 32.89mV

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230V

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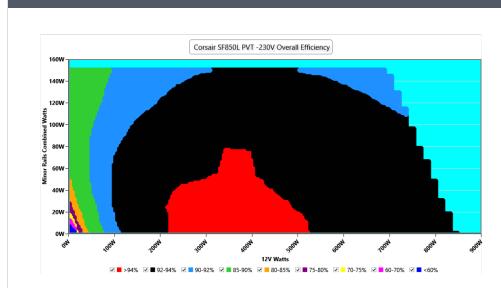
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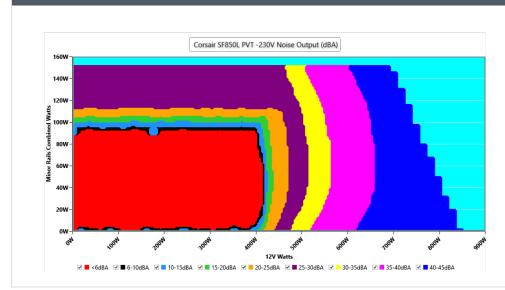
EFFICIENCY GRAPH 230V



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

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VAMPIRE POWER -230V

Detailed Results										
	Average	Min	Limit Min	Мах	Limit Max	Result				
Mains Voltage RMS:	229.88 V	229.82 V	227.70 V	229.94 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:	1.416	1.415	1.340	1.417	1.490	PASS				
Mains Voltage THD:	0.19 %	0.17 %	N/A	0.22 %	2.00 %	PASS				
Real Power:	0.099 W	0.080 W	N/A	0.119 W	N/A	N/A				
Apparent Power:	34.634 W	34.603 W	N/A	34.658 W	N/A	N/A				
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A				

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Corsair SF850L

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100/	5.224A	1.986A	1.979A	0.996A	84.991	00.250%			44.46°C	0.833
10%	12.134V	5.036V	3.335V	5.018V	94.168	90.258%	0	<6.0	40.16°C	229.88V
2007	11.467A	2.98A	2.97A	1.198A	169.936	02 1 210/	0	-6.0	45.17°C	0.919
20%	12.125V	5.034V	3.333V	5.01V	182.472	93.131%	0	<6.0	40.36°C	229.87V
2007	18.060A	3.477A	3.467A	1.4A	254.935	02.0060/	0	-6.0	46.42°C	0.945
30%	12.120V	5.033V	3.332V	5.001V	271.479	93.906%	0	<6.0	41.2°C	229.87V
100/	24.660A	3.976A	3.964A	1.602A	340.013	04.0720/	501	0.4	41.79°C	0.958
10%	12.117V	5.031V	3.33V	4.993V	361.44	94.073%	581	9.4	47.62°C	229.85V
-00/	30.896A	4.973A	4.959A	1.806A	424.806	02.0469/	077	22.7	42.68°C	0.964
50%	12.115V	5.028V	3.328V	4.984V	452.183	93.946%	877	23.7	48.86°C	229.84V
200 /	37.109A	5.97A	5.954A	2A	509.267	02 70 40/	1134	31.5	42.86°C	0.969
50%	12.113V	5.026V	3.326V	4.975V	543.489	93.704%			49.42°C	229.83V
700/	43.389A	6.968A	6.95A	2.214A	594.593	02.2059/	1074	37.0	43.05°C	0.974
70%	12.111V	5.024V	3.324V	4.966V	636.643	93.396%	1374	37.0	50.19°C	229.82V
2007	49.665A	7.966A	7.941A	2.318A	679.333	02.01.20/	1666	42.0	43.88°C	0.977
30%	12.110V	5.022V	3.322V	4.959V	730.363	93.013%	1666		51.93°C	229.81V
200/	56.339A	8.462A	8.426A	2.423A	764.689	02 (150/	1000	45 1	44.1°C	0.979
90%	12.109V	5.021V	3.321V	4.95V	825.663	92.615%	1906	45.1	53.12°C	229.8V
1000/	62.755A	8.963A	8.942A	3.039A	849.503	02.0000/	21.42	40 F	45.36°C	0.981
100%	12.108V	5.019V	3.32V	4.933V	922.395	92.098%	2143	48.5	55.43°C	229.79V
1100/	69.039A	9.961A	10.031A	3.044A	934.074	01 5700/	2227	FO 1	46.55°C	0.983
110%	12.107V	5.018V	3.318V	4.926V	1020.047	91.572%	2337	50.1	57.43°C	229.78V
~ 1	0.114A	17.938A	17.915A	0A	151.256	06 4000/	1160	22 F	42.58°C	0.916
CL1	12.128V	5.034V	3.326V	5.026V	175.047	86.409%	1166	32.5	48.05°C	229.87V
	0.113A	19.84A	0A	0A	101.371		1072	20.2	43.77°C	0.873
CL2	12.135V	5.04V	3.329V	5.037V	118.498	85.547%	1072	30.3	50.01°C	229.88V
	0.113A	0A	19.793A	0A	67.355	00 1070/	1200	25 G	44.9°C	0.809
CL3	12.134V	5.032V	3.334V	5.034V	82.01	82.127%	1299	35.6	52.16°C	229.88V
	70.145A	0A	0A	0A	849.263	02.00201	1000	44.7	55.42°C	0.98
CL41	12.108V	5.021V	3.325V	4.996V	914.142	92.903%	1869		45.44°C	229.79V

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Anex

Corsair SF850L

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	1.224A	0.496A	0.494A	0.198A	19.993	75.0070/	75.867% 0	-6.0	40.28°C	0.497
20W	12.129V	5.037V	3.337V	5.04V	26.354	/5.86/%		<6.0	37.18°C	229.89V
40144	2.693A	0.695A	0.692A	0.298A	39.991	05.0460/	0	<6.0	40.99°C	0.66
40W	12.137V	5.037V	3.337V	5.036V	47.022	85.046%	0		37.73°C	229.89V
C0144	4.164A	0.893A	0.89A	0.397A	59.989	00 51 40/	_	<6.0	42.03°C	0.765
60W	12.134V	5.037V	3.337V	5.031V	67.774	88.514%	0		38.57°C	229.89V
00111	5.631A	1.092A	1.088A	0.497A	79.946	00.2000/	90.386% 0	0 <6.0	43.31°C	0.822
80W	12.133V	5.037V	3.336V	5.027V	88.45	90.386%			39.59°C	229.88V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	22.41mV	14.33mV	6.37mV	29.40mV	Pass
20% Load	22.58mV	17.69mV	6.88mV	37.24mV	Pass
30% Load	9.29mV	8.08mV	6.78mV	5.77mV	Pass
40% Load	8.28mV	9.10mV	7.18mV	6.07mV	Pass
50% Load	23.85mV	16.36mV	7.89mV	35.52mV	Pass
60% Load	30.33mV	17.84mV	10.62mV	37.14mV	Pass
70% Load	30.93mV	19.46mV	16.83mV	32.23mV	Pass
80% Load	28.76mV	17.94mV	19.11mV	30.81mV	Pass
90% Load	35.04mV	17.33mV	15.12mV	34.31mV	Pass
100% Load	16.69mV	12.73mV	12.64mV	9.63mV	Pass
110% Load	17.83mV	12.12mV	12.52mV	10.47mV	Pass
Crossload1	16.89mV	13.42mV	13.17mV	8.78mV	Pass
Crossload2	32.25mV	18.45mV	10.16mV	28.49mV	Pass
Crossload3	35.08mV	18.04mV	12.64mV	35.82mV	Pass
Crossload4	16.08mV	11.25mV	11.68mV	8.64mV	Pass

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

Corsair SF850L



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