

Anex

Corsair SF1000

Lab ID#: CR10002348
Receipt Date: Jan 30, 2024
Test Date: Feb 5, 2024

Report: 24PS2348A
Report Date: Feb 9, 2024

DUT INFORMATION	
Brand	Corsair
Manufacturer (OEM)	Great Wall
Series	SF
Model Number	RPS0176
Serial Number	A2MGD35353IAXP
DUT Notes	CP-9020257 / 75-005386

DUT SPECIFICATIONS	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	12-6
Rated Frequency (Hz)	47-63
Rated Power (W)	1000
Type	SFX
Cooling	92mm Fluid Dynamic Bearing Fan (NR092P)
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
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓
ALPM (Alternative Low Power Mode) compatible	✓
ATX v3.1 PSU Power Excursion	✓

115V

Average Efficiency	90.418%
Efficiency With 10W (≤500W) or 2% (>500W)	73.843
Average Efficiency 5VSB	83.990%
Standby Power Consumption (W)	0.0398000
Average PF	0.983
Avg Noise Output	32.98 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Standard++

230V

Average Efficiency	92.544%
Average Efficiency 5VSB	83.406%
Standby Power Consumption (W)	0.0957000
Average PF	0.943
Avg Noise Output	31.72 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Standard++

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	83.3	3	0
	Watts	130		1000	15	0
Total Max. Power (W)		1000				

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

Hold-Up Time (ms)	21.4
AC Loss to PWR_OK Hold Up Time (ms)	17.9
PWR_OK Inactive to DC Loss Delay (ms)	3.5

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CABLES AND CONNECTORS

Modular Cables

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (310mm)	1	1	16-20AWG	No
4+4 pin EPS12V (410mm)	2	2	16AWG	No
6+2 pin PCIe (400mm)	3	3	16AWG	No
12+2 pin PCIe (410mm) (600W)	1	1	16-24AWG	No
SATA (100mm+115mm+115mm+115mm)	2	8	18AWG	No
4-pin Molex (100mm+115mm+115mm)	1	3	18AWG	No

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General Data	
Manufacturer (OEM)	Great Wall
PCB Type	Double-Sided
Primary Side	
Transient Filter	2x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	1x NTC Thermistor SCK-056 (5 Ohm) & Relay
Bridge Rectifier(s)	2x Vishay GBUE2560 (600V, 25A @ 140°C)
APFC MOSFETs	2x ST STP50N60DM6 (600V, 23A @ 100°C, Rds(on): 0.008Ohm) & 1x Champion CM03X (reduce the no-load consumption)
APFC Boost Diode	1x CREE C3D16065 (650V, 16A @ 150°C)
Bulk Cap(s)	1x Rubycon (420V, 740uF, 3,000h @ 105°C, MXK)
Main Switchers	2x Infineon IPA60R060C7 (600V, 10A @ 100°C, Rds(on): 0.060Ohm)
APFC Controller	Champion CM6502UHHX
Resonant Controller	Champion CM6901X
IC Driver	1x Novosense NSi6602BD
Topology	Primary side: APFC, Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	8x 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) Polymer: 3x United Chemi-Con, 43x FPCAP
Supervisor IC	IN1S429I-SCG (OCP,OVP, UVP, SCP, PG)
Fan Controller	Microchip PIC16F1824
Fan Model	Corsair NR092P (92mm, 12V, 0.22A, Fluid Dynamic Bearing Fan)
5VSB Circuit	
Rectifier	1x Infineon ICE5QR1680AG (800V, 5.8A, Rds(on): 1.75Ohm) & 1x Diotec Semiconductor US1M (1000V, 30A)
Standby PWM Controller	Infineon ICE5QR1680AG

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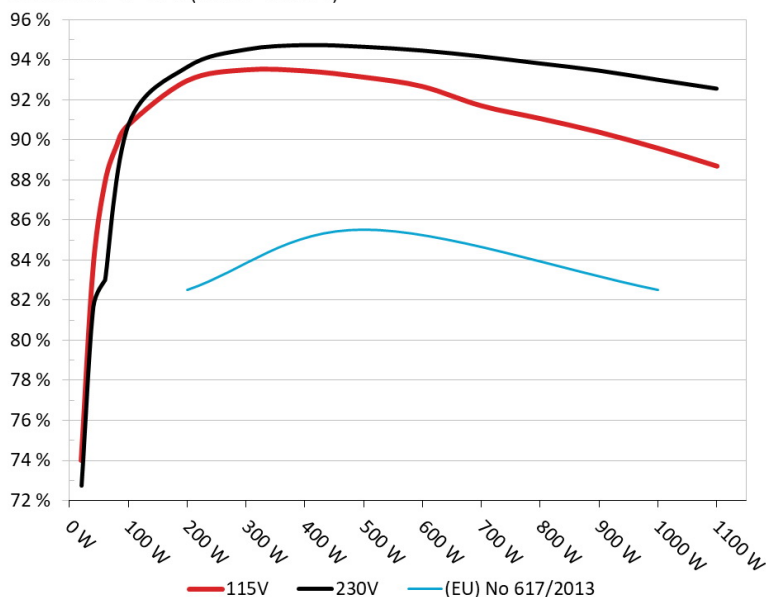
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EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

Efficiency: Corsair SF1000

Ambient: 37°C - 47°C (98.6°F - 116.6°F)



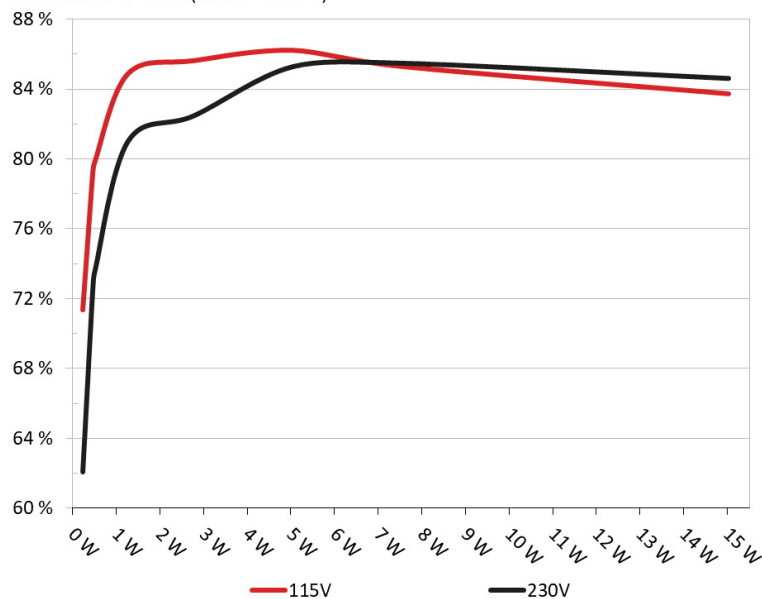
INFO

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: Corsair SF1000

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.227W	70.857%	0.03
	5.053V	0.32W		114.86V
2	0.09A	0.455W	78.703%	0.055
	5.052V	0.578W		114.87V
3	0.55A	2.774W	85.141%	0.247
	5.043V	3.258W		114.86V
4	1A	5.037W	85.731%	0.347
	5.037V	5.875W		114.86V
5	1.5A	7.546W	84.804%	0.396
	5.031V	8.898W		114.85V
6	3A	15.028W	83.24%	0.475
	5.009V	18.054W		114.85V

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.227W	61.552%	0.01
	5.052V	0.37W		229.86V
2	0.09A	0.455W	71.989%	0.018
	5.052V	0.632W		229.86V
3	0.55A	2.773W	81.955%	0.092
	5.042V	3.384W		229.86V
4	1A	5.037W	84.764%	0.152
	5.036V	5.942W		229.85V
5	1.5A	7.545W	84.961%	0.21
	5.029V	8.88W		229.86V
6	3A	15.018W	84.093%	0.305
	5.006V	17.857W		229.85V

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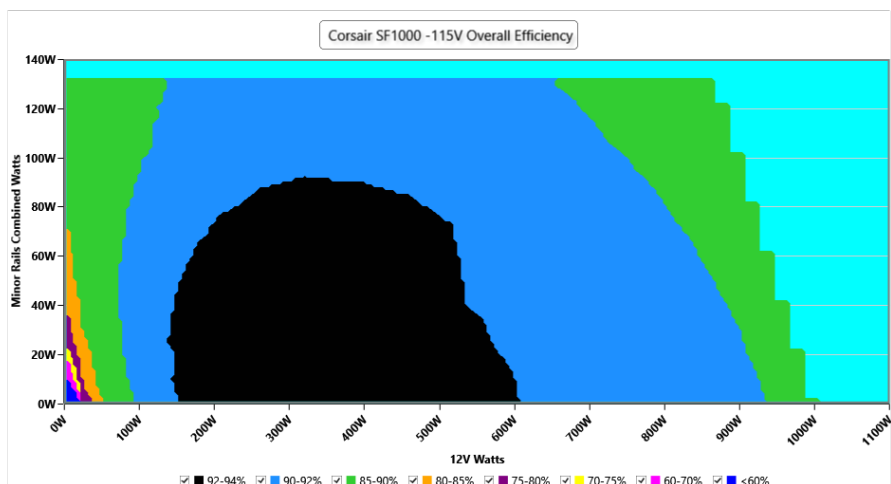
115V

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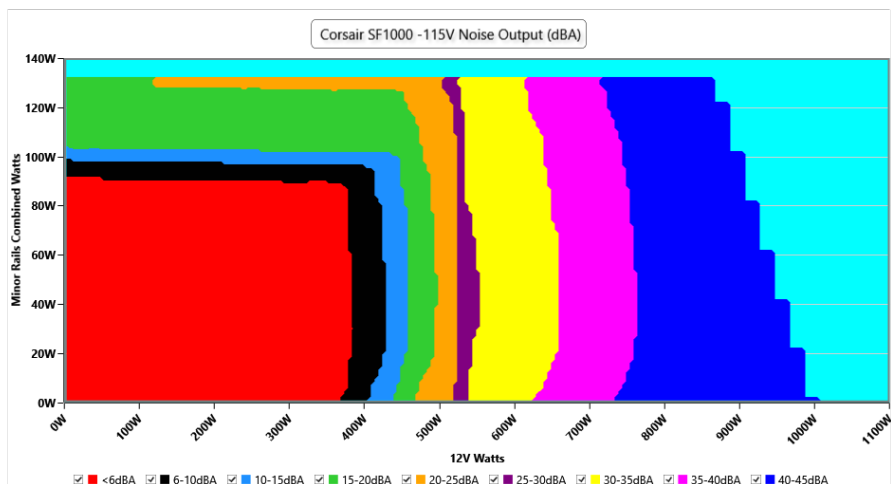
EFFICIENCY GRAPH 115V



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:	114.87 V	114.78 V	113.85 V	114.96 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.97 Hz	59.40 Hz	60.02 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.422	1.419	1.340	1.425	1.490	PASS
Mains Voltage THD:	0.16 %	0.11 %	N/A	0.31 %	2.00 %	PASS
Real Power:	0.040 W	-0.004 W	N/A	0.074 W	N/A	N/A
Apparent Power:	11.420 W	11.391 W	N/A	11.459 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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10-110% 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%	6.473A	1.999A	1.979A	0.994A	99.989	90.233%	0	<6.0	44.45°C	0.977
	12.110V	5.003V	3.334V	5.031V	110.813				40.23°C	114.82V
20%	13.961A	2.999A	2.971A	1.194A	199.937	92.444%	0	<6.0	45.31°C	0.964
	12.108V	5.001V	3.333V	5.024V	216.277				40.76°C	114.8V
30%	21.800A	3.499A	3.466A	1.396A	299.984	92.987%	0	<6.0	46.2°C	0.977
	12.107V	5.001V	3.332V	5.016V	322.607				41.12°C	114.76V
40%	29.597A	4A	3.963A	1.597A	399.499	92.935%	957	9.3	41.6°C	0.984
	12.106V	5V	3.331V	5.008V	429.871				47.19°C	114.72V
50%	37.074A	5.002A	4.956A	1.8A	499.231	92.625%	1396	21.6	42.41°C	0.988
	12.103V	4.998V	3.329V	5.001V	538.974				47.94°C	114.7V
60%	44.620A	6.004A	5.951A	2A	599.751	92.155%	1892	30.8	42.68°C	0.991
	12.101V	4.997V	3.328V	4.993V	650.804				48.71°C	114.65V
70%	52.102A	7.007A	6.947A	2.207A	699.507	91.193%	2626	39.3	43.26°C	0.992
	12.099V	4.995V	3.326V	4.985V	767.059				50.34°C	114.62V
80%	59.654A	8.01A	7.942A	2.31A	799.525	90.554%	3075	43.0	43.61°C	0.993
	12.097V	4.993V	3.324V	4.978V	882.926				51.67°C	114.58V
90%	67.539A	8.512A	8.426A	2.414A	899.331	89.879%	3451	45.6	44.45°C	0.994
	12.095V	4.992V	3.323V	4.972V	1000.6				53.49°C	114.54V
100%	75.225A	9.015A	8.94A	3.026A	999.344	89.077%	3747	47.6	45.19°C	0.995
	12.093V	4.991V	3.322V	4.957V	1121.888				55.3°C	114.51V
110%	82.838A	10.02A	10.029A	3.029A	1099.96	88.179%	3761	47.8	46.76°C	0.995
	12.092V	4.99V	3.32V	4.952V	1247.415				57.68°C	114.46V
CL1	0.115A	15.694A	15.542A	0A	131.299	85.416%	1582	24.8	40.46°C	0.964
	12.118V	4.989V	3.32V	5.042V	153.718				45.89°C	114.8V
CL2	0.114A	20.02A	0A	0A	101.347	84.448%	2329	36.3	40.17°C	0.974
	12.116V	4.993V	3.332V	5.045V	120.011				47.38°C	114.82V
CL3	0.114A	0A	19.869A	0A	67.38	79.418%	2038	33.0	40.97°C	0.948
	12.115V	5V	3.322V	5.046V	84.843				50.1°C	114.82V
CL4	82.697A	0A	0A	0A	999.892	89.828%	3400	45.3	45.85°C	0.994
	12.091V	5.002V	3.333V	5.004V	1113.131				56.79°C	114.51V

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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	1.226A	0.5A	0.495A	0.198A	19.996	73.484%	0	<6.0	39.65°C	0.811
	12.108V	5.004V	3.336V	5.046V	27.212				36.57°C	114.85V
40W	2.700A	0.699A	0.692A	0.297A	39.997	83.028%	0	<6.0	40.37°C	0.912
	12.109V	5.005V	3.336V	5.043V	48.175				37.08°C	114.84V
60W	4.173A	0.899A	0.89A	0.397A	59.998	87.315%	0	<6.0	41.98°C	0.946
	12.109V	5.005V	3.336V	5.041V	68.716				38.19°C	114.84V
80W	5.641A	1.099A	1.088A	0.496A	79.938	89.183%	0	<6.0	43.18°C	0.953
	12.110V	5.005V	3.336V	5.039V	89.632				39.2°C	114.83V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	15.04mV	14.42mV	14.47mV	18.52mV	Pass
20% Load	17.85mV	14.98mV	14.83mV	18.88mV	Pass
30% Load	18.41mV	15.34mV	14.57mV	18.78mV	Pass
40% Load	22.66mV	16.06mV	17.44mV	19.55mV	Pass
50% Load	21.69mV	16.53mV	16.67mV	20.58mV	Pass
60% Load	24.09mV	15.81mV	17.03mV	19.34mV	Pass
70% Load	24.65mV	16.73mV	19.39mV	21.34mV	Pass
80% Load	27.26mV	16.99mV	18.52mV	21.09mV	Pass
90% Load	34.32mV	19.71mV	30.17mV	20.17mV	Pass
100% Load	34.75mV	17.33mV	20.72mV	23.92mV	Pass
110% Load	38.52mV	17.73mV	20.66mV	23.39mV	Pass
Crossload1	21.11mV	17.80mV	16.66mV	30.29mV	Pass
Crossload2	20.76mV	20.22mV	16.83mV	30.38mV	Pass
Crossload3	17.44mV	15.86mV	15.96mV	30.48mV	Pass
Crossload4	36.54mV	17.37mV	20.97mV	36.66mV	Pass

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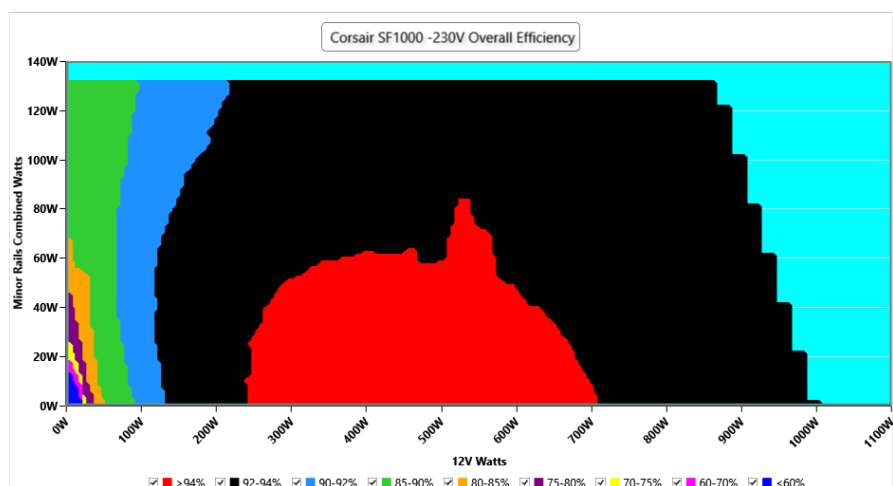
230V

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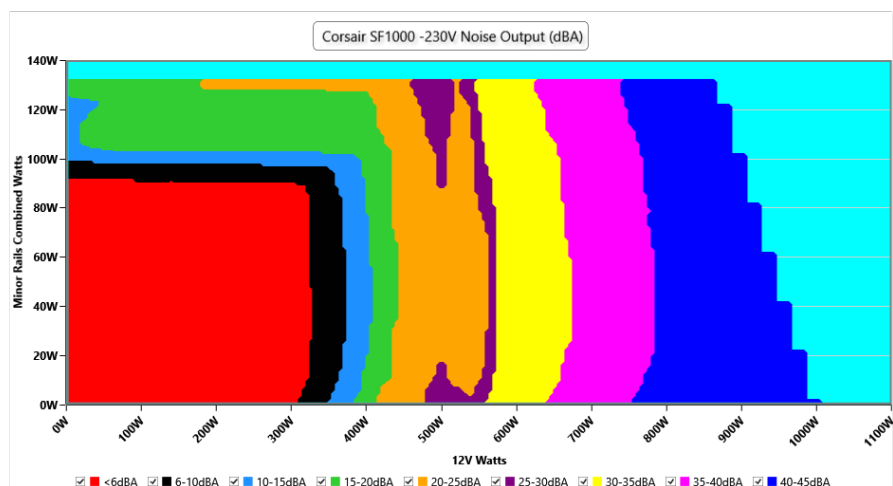
EFFICIENCY GRAPH 230V



INFO

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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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VAMPIRE POWER -230V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	229.87 V	229.76 V	227.70 V	229.99 V	232.30 V	PASS
Mains Frequency:	50.00 Hz	49.98 Hz	49.50 Hz	50.02 Hz	50.50 Hz	PASS
Mains Voltage CF:	1.419	1.417	1.340	1.421	1.490	PASS
Mains Voltage THD:	0.16 %	0.11 %	N/A	0.26 %	2.00 %	PASS
Real Power:	0.096 W	0.058 W	N/A	0.162 W	N/A	N/A
Apparent Power:	39.710 W	39.657 W	N/A	39.792 W	N/A	N/A
Power Factor:	0.002	N/A	N/A	N/A	N/A	N/A

INFO

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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%	6.470A	1.998A	1.979A	0.994A	99.988	90.273%	506	<6.0	40.08°C	0.822
	12.115V	5.004V	3.335V	5.031V	110.761				44.34°C	229.83V
20%	13.957A	2.999A	2.97A	1.195A	199.934	93.138%	570	<6.0	40.61°C	0.911
	12.112V	5.002V	3.333V	5.023V	214.664				45.12°C	229.82V
30%	21.797A	3.499A	3.467A	1.396A	299.981	94.006%	831	<6.0	41.09°C	0.938
	12.108V	5.001V	3.332V	5.016V	319.109				46.11°C	229.81V
40%	29.596A	4A	3.963A	1.598A	399.494	94.224%	1244	14.3	41.92°C	0.949
	12.106V	4.999V	3.331V	5.008V	423.98				47.51°C	229.8V
50%	37.073A	5.002A	4.957A	1.8A	499.229	94.143%	1704	28.0	42.27°C	0.958
	12.103V	4.998V	3.329V	5.001V	530.29				48.35°C	229.78V
60%	44.621A	6.005A	5.951A	2A	599.756	93.952%	2132	34.2	42.89°C	0.965
	12.101V	4.997V	3.327V	4.993V	638.361				49.43°C	229.76V
70%	52.105A	7.008A	6.947A	2.207A	699.517	93.66%	2587	39.0	43.28°C	0.968
	12.099V	4.995V	3.326V	4.985V	746.865				50.38°C	229.75V
80%	59.657A	8.01A	7.942A	2.31A	799.526	93.311%	3005	42.3	43.75°C	0.971
	12.097V	4.993V	3.324V	4.978V	856.842				51.89°C	229.73V
90%	67.543A	8.512A	8.426A	2.414A	899.333	92.954%	3374	45.2	44.56°C	0.974
	12.094V	4.992V	3.323V	4.971V	967.503				53.58°C	229.71V
100%	75.229A	9.015A	8.94A	3.026A	999.344	92.499%	3751	47.7	45.66°C	0.977
	12.092V	4.991V	3.322V	4.957V	1080.388				55.75°C	229.69V
110%	82.845A	10.02A	10.029A	3.03A	1099.952	92.053%	3765	47.8	46.86°C	0.979
	12.090V	4.99V	3.32V	4.952V	1194.906				57.78°C	229.68V
CL1	0.116A	15.695A	15.543A	0A	131.301	85.468%	2139	34.2	41.39°C	0.878
	12.120V	4.989V	3.32V	5.042V	153.627				46.84°C	229.84V
CL2	0.114A	20.016A	0A	0A	101.335	84.571%	2325	36.3	40.59°C	0.837
	12.119V	4.993V	3.332V	5.045V	119.824				47.74°C	229.84V
CL3	0.114A	0A	19.868A	0A	67.382	79.404%	2028	32.8	40.57°C	0.769
	12.118V	5V	3.322V	5.045V	84.862				49.67°C	229.85V
CL4	82.703A	0A	0A	0A	999.915	93.138%	3377	45.2	45.75°C	0.976
	12.090V	5.002V	3.333V	5.004V	1073.597				56.73°C	229.7V

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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	1.226A	0.499A	0.494A	0.198A	19.995	72.23%	0	<6.0	39.74°C	0.426
	12.105V	5.006V	3.337V	5.046V	27.682				36.69°C	229.85V
40W	2.700A	0.699A	0.692A	0.297A	39.997	81.159%	0	<6.0	40.59°C	0.615
	12.105V	5.006V	3.337V	5.043V	49.28				37.35°C	229.85V
60W	4.174A	0.899A	0.89A	0.397A	59.997	83.916%	0	<6.0	42.27°C	0.72
	12.106V	5.006V	3.337V	5.041V	71.495				38.76°C	229.85V
80W	5.642A	1.098A	1.088A	0.496A	79.935	82.498%	0	<6.0	43.19°C	0.795
	12.107V	5.006V	3.337V	5.038V	96.892				39.31°C	229.84V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	15.70mV	14.22mV	13.65mV	19.60mV	Pass
20% Load	19.08mV	14.88mV	14.37mV	19.80mV	Pass
30% Load	19.95mV	15.50mV	16.01mV	20.22mV	Pass
40% Load	20.66mV	17.65mV	18.11mV	20.16mV	Pass
50% Load	21.68mV	15.50mV	16.06mV	19.91mV	Pass
60% Load	23.47mV	15.14mV	16.98mV	19.50mV	Pass
70% Load	24.35mV	14.98mV	17.49mV	21.14mV	Pass
80% Load	26.70mV	16.17mV	18.27mV	21.04mV	Pass
90% Load	27.57mV	16.47mV	18.47mV	20.42mV	Pass
100% Load	36.98mV	16.71mV	19.47mV	23.07mV	Pass
110% Load	38.22mV	17.14mV	20.14mV	22.74mV	Pass
Crossload1	23.92mV	16.56mV	15.66mV	30.15mV	Pass
Crossload2	21.23mV	19.50mV	15.39mV	29.55mV	Pass
Crossload3	18.26mV	16.27mV	15.85mV	30.12mV	Pass
Crossload4	35.79mV	16.40mV	18.70mV	35.92mV	Pass

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Anex

Corsair SF1000



Top side

 CORSAIR				
• MODEL / MODELO / 型号 / 型號 / 모델: RPS0176				
POWER SUPPLY / FUENTE DE ALIMENTACIÓN / 컴퓨터용 전원공급장치				
PART NUMBER: CP-9020257 / 75-005386				
交流輸入 交流輸入	AC INPUT AC 입력 Entrada de CA	100V a.c. - 240V a.c. • 12A - 6A • 47Hz - 63Hz 200V a.c. - 240V a.c. (適用中國, Only for China & Korea) • 10A • 47Hz - 63Hz		
直流輸出 直流輸出	DC OUTPUT DC 출력 Salida de CC	+5V	+3.3V	+12V +5Vsb
最大電流 最大電流	MAX LOAD 최대 부하 Carga Máximo	20A	20A	83.3A 3A
最大瓦特數 最大瓦特數	MAX POWER 최대 결합 전력 Wattaje Combinado Máximo	130W		1000W 15W
TOTAL POWER: 1000W PODER TOTAL / 總功率 / 총출력				
     				

Power specifications label

CERTIFICATIONS 115V




Aristeidis Bitziopoulos
Lab Director

CERTIFICATIONS 230V



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