

Anex Corsair RM1000x

Lab ID#: 80

Receipt Date: -

Report Date: Jan 4, 2018

Report:

Test Date: -

DUT INFORMATION				
Brand	Corsair			
Manufacturer (OEM)	Channel Well Technology			
Series	RMx			
Model Number	RM1000x			
Serial Number	16457129000017510014			
DUT Notes	CP-9020094 - Retested on 11/10/2017			

DUT SPECIFICATIONS						
Rated Voltage (Vrms)	100-240					
Rated Current (Arms)	13-6.5					
Rated Frequency (Hz)	47-63					
Rated Power (W)	1000					
Туре	ATX12V					
Cooling	135mm Rifle Bearing Fan (NR135L)					
Semi-Passive Operation	/					
Cable Design	Fully Modular					

POWER SPECIFICATIONS							
Rail		3.3V	5V	12V	5VSB	-12V	
May Dayer	Amps	25	25	83.3	3	0.8	
Max. Power Watts		150	150		15	9.6	
Total Max. Power (W)		1000	1000				

CABLES AND CONNECTORS					
Modular Cables					
Description	Cable Count	Connector Count (Total)	Gauge		
ATX connector 20+4 pin (600mm)	1	1	16-20AWG		
4+4 pin EPS12V (650mm)	2	2	18AWG		
6+2 pin PCle (600mm+150mm)	4	8	18AWG		
SATA (520mm+115mm+115mm)	3	11	18AWG		
4 pin Molex (450mm+100mm+100mm+100mm)	3	12	18AWG		
FDD Adapter (+100mm)	1	1	20AWG		

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RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
Average Efficiency	88.830
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	81.353
Standby Power Consumption (W) -115V	0.0424304
Standby Power Consumption (W) -230V	0.0794498
Average PF	0.994
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	/
Avg Noise Output	22.33
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Α

TEST EQUIPMENT					
Electronic Loads	Chroma 6314A x2 Chroma 63601-5 x2 63123A x6 Chroma 63600-2 63102A 63640-80-80 x10 63101A 63610-80-20				
AC Sources	Chroma 6530, Chroma 61604				
Power Analyzers	N4L PPA1530, N4L PPA5530				
Oscilloscopes	Picoscope 4444 & 3424, Keysight DSOX3024A, Rigol DS2072A				
Voltmeter	Keithley 2015 THD 6.5 Digit				
Sound Analyzer	Bruel & Kjaer 2250-L G4				
Microphone	Bruel & Kjaer Type 4189				
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2				

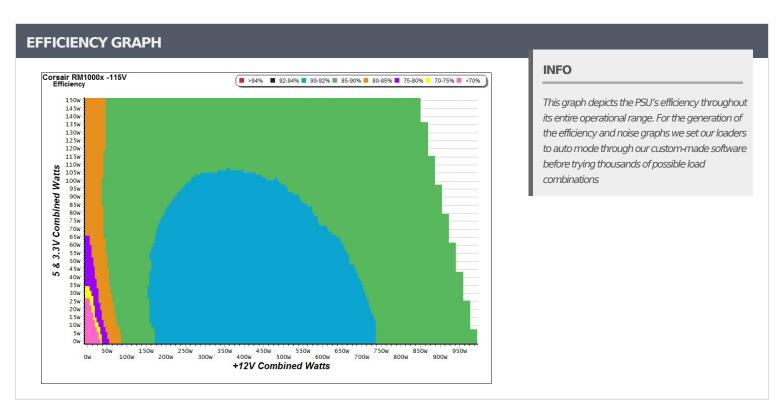
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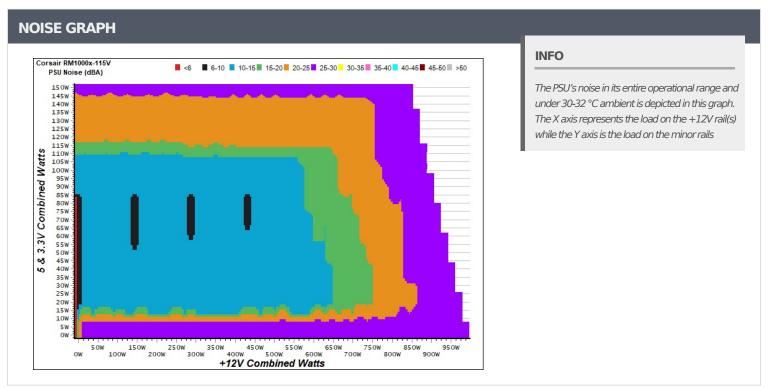
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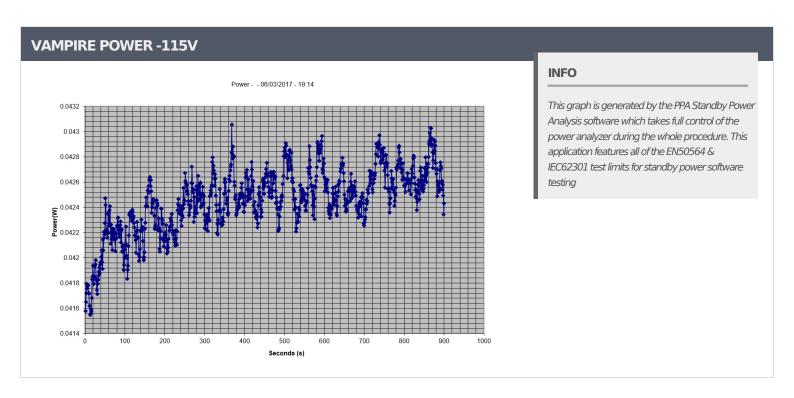
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)							
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.042A	0.211	CO 1000/	0.029			
1	5.069V	0.305	69.180%	115.09V			
2	0.087A	0.442	75.0450/	0.057			
	5.068V	0.582	75.945%	115.09V			
2	0.532A	2.691	01 4710/	0.245			
3	5.059V	3.303	81.471%	115.09V			
4	3.002A	15.036	00.0020/	0.453			
4	5.009V	18.636	80.683%	115.08V			

5VSB	5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)						
Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.042A	0.211	E7.0670/	0.011			
1	5.069V	0.364	57.967%	230.22V			
2	0.087A	0.442	68.421%	0.019			
2	5.067V	0.646	08.421%	230.23V			
2	0.532A	2.691	70 7070/	0.098			
3	5.059V	3.419	78.707%	230.22V			
4	3.002A	15.035	00.4700/	0.318			
4	5.009V	18.682	80.479%	230.22V			



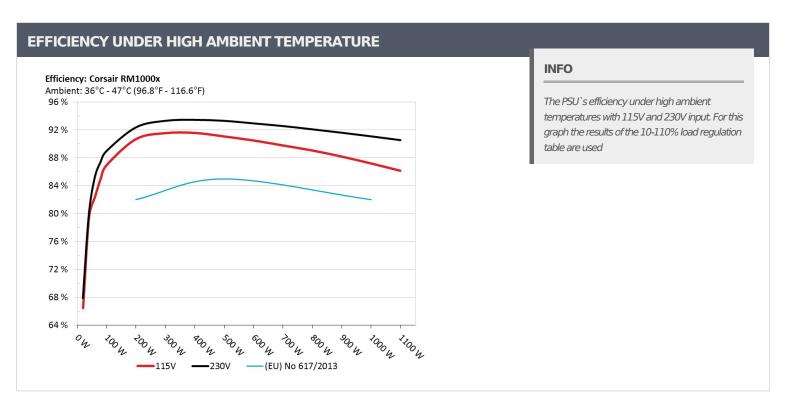
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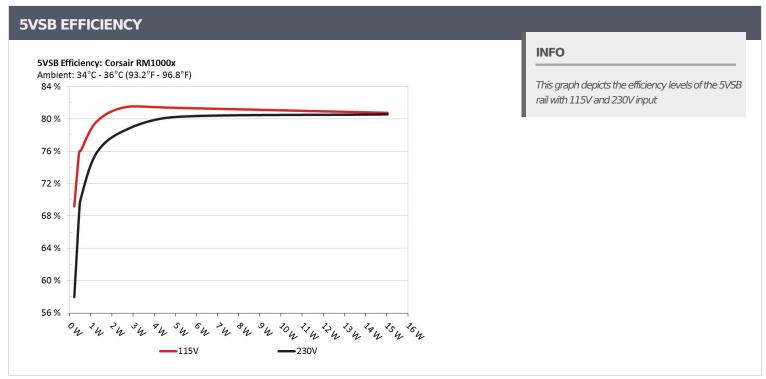
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10-110% LOAD TESTS										
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
	6.482A	1.986A	1.988A	0.995A	99.803				49.24°C	0.975
1	12.070V	5.029V	3.316V	5.010V	114.770	86.959%	0	<6.0	38.63°C	115.10V
_	14.004A	2.981A	2.987A	1.196A	199.661	00.5020/			49.88°C	0.993
2	12.055V	5.023V	3.310V	5.002V	220.154	90.692%	0	<6.0	39.06°C	115.10V
	21.910A	3.489A	3.505A	1.402A	299.888	0			51.22°C	0.995
3	12.040V	5.018V	3.305V	4.993V	327.564	91.551%	0	<6.0	40.24°C	115.09V
_	29.817A	3.988A	3.996A	1.601A	399.684				52.38°C	0.997
4	12.024V	5.014V	3.300V	4.986V	436.420	91.582%	0	<6.0	40.67°C	115.09V
_	37.408A	4.987A	5.007A	1.804A	499.648	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0			45.14°C	0.998
5	12.008V	5.009V	3.294V	4.978V	548.608	91.076%	610	10.2	57.11°C	115.10V
_	45.010A	5.997A	6.020A	2.012A	599.607		610	10.2	44.51°C	0.998
6	11.993V	5.003V	3.289V	4.970V	662.560	90.499%			57.19°C	115.09V
_	52.631A	7.012A	7.038A	2.216A	699.595			785 18.1	44.26°C	0.998
7	11.979V	4.996V	3.282V	4.962V	779.217	89.785%	785		57.43°C	115.09V
	60.278A	8.020A	8.060A	2.420A	799.491				44.49°C	0.998
8	11.963V	4.988V	3.275V	4.953V	897.650	89.065%	872	22.2	58.34°C	115.09V
	68.372A	8.527A	8.594A	2.425A	899.492				45.00°C	0.998
9	11.948V	4.983V	3.269V	4.948V	1019.967	88.188%	995	26.3	59.20°C	115.10V
	76.232A	9.052A	9.097A	3.041A	999.343				45.56°C	0.998
10	11.932V	4.977V	3.264V	4.932V	1145.971	87.205%	1116	29.7	60.62°C	115.08V
	84.731A	9.060A	9.112A	3.042A	1099.291	00.05-11			46.74°C	0.998
11	11.915V	4.971V	3.259V	4.927V	1275.947	86.155%	1376	36.1	62.38°C	115.07V
	0.099A	18.027A	18.004A	0.005A	150.748				45.59°C	0.989
CL1	12.046V	5.009V	3.290V	5.043V	182.477	82.612%	12% 1049	27.0	58.32°C	115.10V
0.0	83.260A	1.003A	1.004A	1.002A	1006.986				46.01°C	0.998
CL2	11.935V	4.988V	3.280V	4.972V	1149.744	87.583%	1119	30.0	60.11°C	115.08V

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20-80	W LOAD	TESTS							
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts
1	1.207A	0.492A	0.481A	0.196A	19.649	66.4040/		<6.0	0.840
1	12.087V	5.033V	3.322V	5.029V	29.590	66.404%	0		115.10V
2	2.443A	0.991A	0.993A	0.396A	39.793	70.4020/	0	<6.0	0.929
2	12.084V	5.031V	3.320V	5.024V	50.065	79.483%			115.10V
2	3.678A	1.488A	1.505A	0.596A	59.888	02.2620/			0.951
3	12.078V	5.030V	3.318V	5.019V	72.712	82.363%	0	<6.0	115.10V
4	4.904A	1.985A	1.988A	0.795A	79.776	05.0200/		.60	0.965
4	12.074V	5.030V	3.317V	5.015V	93.821	85.030%	0	<6.0	115.10V

RIPPLE MEASUREMENTS						
Test	12V	5V	3.3V	5VSB	Pass/Fail	
10% Load	5.4 mV	6.2 mV	7.9 mV	4.7 mV	Pass	
20% Load	5.8 mV	7.3 mV	8.5 mV	6.1 mV	Pass	
30% Load	5.9 mV	6.3 mV	8.3 mV	6.5 mV	Pass	
40% Load	6.5 mV	6.5 mV	8.3 mV	7.1 mV	Pass	
50% Load	7.6 mV	6.6 mV	8.6 mV	7.6 mV	Pass	
60% Load	7.1 mV	6.4 mV	8.3 mV	8.6 mV	Pass	
70% Load	8.0 mV	6.9 mV	8.9 mV	9.8 mV	Pass	
80% Load	8.1 mV	7.5 mV	9.3 mV	10.9 mV	Pass	
90% Load	9.1 mV	7.9 mV	10.2 mV	12.2 mV	Pass	
100% Load	10.3 mV	7.7 mV	10.4 mV	13.2 mV	Pass	
110% Load	12.0 mV	8.3 mV	10.8 mV	14.6 mV	Pass	
Crossload 1	7.5 mV	7.7 mV	9.2 mV	7.7 mV	Pass	
Crossload 2	10.5 mV	8.5 mV	10.6 mV	12.0 mV	Pass	

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HOLD-UP TIME & POWER OK SIGNAL (230V)		
Hold-Up Time (ms)	28.5	
AC Loss to PWR_OK Hold Up Time (ms)	20.0	
PWR_OK Inactive to DC Loss Delay (ms)	8.5	







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