

Anex Corsair RM1000i

Lab ID#: 89
Receipt Date: -

Test Date: -

**DUT Notes** 

Report Date: Dec 4, 2018

Report:

DUT INFORMATION					
Brand	Corsair				
Manufacturer (OEM)	Channel Well Technology				
Series	RMi				
Model Number	RM1000i				
Serial Number	16467141000020400275				

CP-9020084

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 Fluid Dynamic Bearing Fan (NR135P)				
Semi-Passive Operation	<b>/</b>				
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						

CABLES AND CONNECTORS					
Modular Cables					
Description	Cable Count	Connector Count (Total)	Gauge		
ATX connector 20+4 pin (600mm)	1	1	18-20AWG		
4+4 pin EPS12V (650mm)	2	2	18AWG		
6+2 pin PCle (600mm+150mm)	4	8	18AWG		
SATA (400mm+100mm+100mm)	2	8	18AWG		
SATA (550mm+100mm+100mm)	1	4	18AWG		
4 pin Molex (450mm+100mm+100mm+100mm)	3	11	18AWG		
FDD Adapter (+100mm)	2	2	20AWG		
C-Link USB Cable (800mm) / C-Link I2C Cable (800mm)	1/1	1/1	24-28 / 29AWG		

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RESULTS	
Temperature Range (°C/°F)	30-32 / 86-89.6
Average Efficiency	88.632
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	81.081
Standby Power Consumption (W) -115V	0.0428923
Standby Power Consumption (W) -230V	0.0761956
Average PF	0.995
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓
Avg Noise Output	19.58
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A+

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				

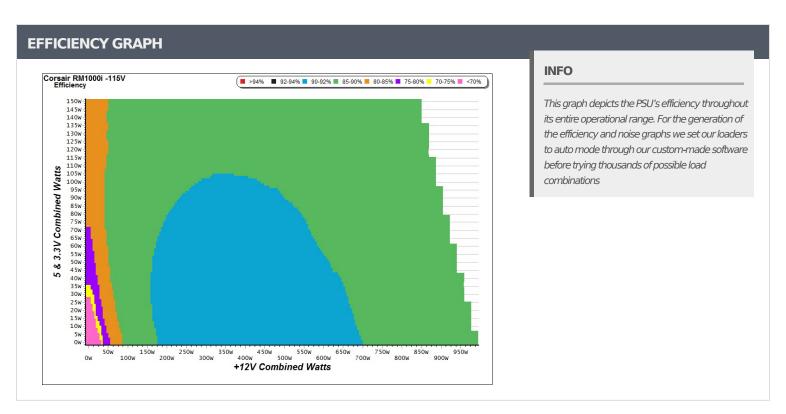
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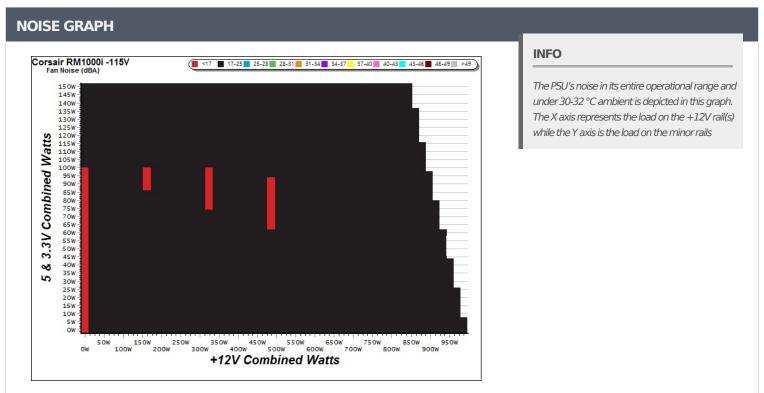
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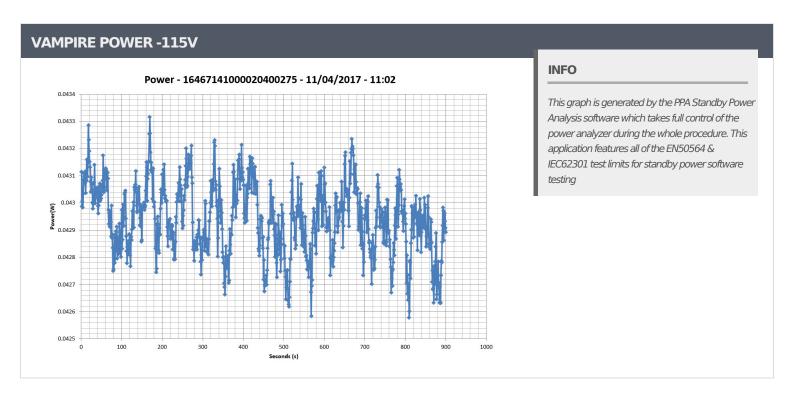
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)							
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.042A	0.211	70 2220/	0.030			
1	5.062V	0.300	70.333%	115.09V			
2	0.087A	0.440	76.2560/	0.056			
2	5.062V	0.577	76.256%	115.54V			
	0.532A	2.686	01.4420/	0.246			
3	5.053V	3.298	81.443%	115.09V			
4	3.001A	15.013	00 5200/	0.450			
4	5.002V	18.645	80.520%	115.07V			

5VSB	5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)							
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts				
1	0.042A	0.211	C1 F1C0/	0.010				
1	5.063V	0.343	61.516%	230.09V				
2	0.087A	0.441	70 2220/	0.019				
2	5.062V	0.628	70.223%	230.19V				
3	0.532A	2.687	70.1000/	0.096				
3	5.053V	3.396	79.122%	230.20V				
4	3.001A	15.012	00 5000/	0.317				
4	5.002V	18.647	80.506%	230.17V				



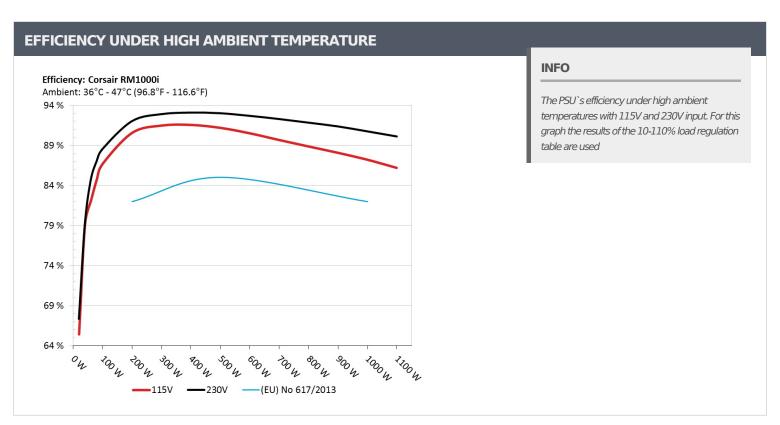
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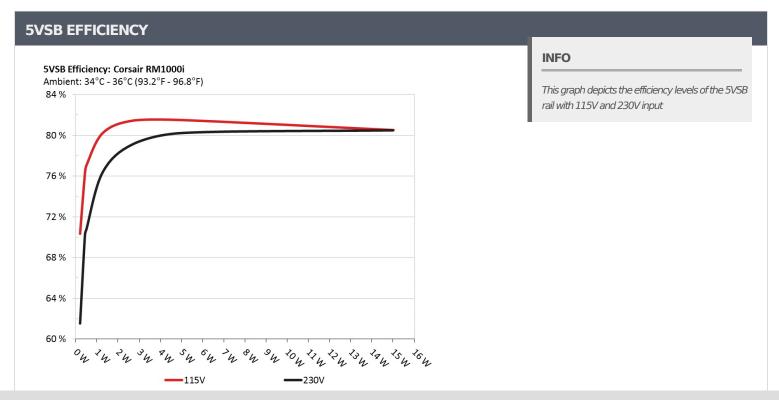
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10-1	.10% LOA	D TESTS								
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	Temps (In/Out)	PF/AC Volts
_	6.486A	1.985A	1.979A	0.996A	99.827	0.0000/			44.95°C	0.980
1	12.062V	5.039V	3.330V	5.021V	115.166	86.681%	0	0	38.42°C	115.11V
2	14.012A	2.970A	2.973A	1.196A	199.653	00.5300/			44.97°C	0.994
2	12.047V	5.036V	3.327V	5.018V	220.515	90.539%	0	0	38.96°C	115.10V
_	21.929A	3.477A	3.486A	1.395A	299.892	01.4560/			44.60°C	0.996
3	12.030V	5.035V	3.324V	5.013V	327.910	91.456%	0	0	39.65°C	115.10V
	29.843A	3.974A	3.969A	1.596A	399.723	01 5270/			46.93°C	0.998
4	12.014V	5.034V	3.323V	5.009V	436.679	91.537%	0	0	40.66°C	115.10V
_	37.450A	4.969A	4.962A	1.794A	499.693	01.1740/	6 0		47.99°C	0.998
5	11.995V	5.033V	3.323V	5.007V	548.063	91.174%		0	41.80°C	115.10V
	45.070A	5.964A	5.963A	1.996A	599.624	00.4000/	601	17.4	43.66°C	0.998
6	11.978V	5.030V	3.319V	5.002V	662.584	90.498%			57.99°C	115.10V
7	52.698A	6.970A	6.965A	2.200A	699.598	20.6500/	767	10.0	44.09°C	0.998
7	11.964V	5.026V	3.316V	4.996V	780.288	89.659%	767	19.2	57.94°C	115.09V
•	60.351A	7.962A	7.963A	2.401A	799.451	00.05.40/	055	21.2	44.76°C	0.998
8	11.948V	5.024V	3.314V	4.993V	899.737	88.854%	855	21.3	58.89°C	115.10V
0	68.463A	8.470A	8.482A	2.402A	899.509	00.0630/	020	22.2	45.42°C	0.998
9	11.932V	5.021V	3.312V	4.991V	1021.441	88.063%	938	22.2	59.48°C	115.09V
10	76.345A	8.970A	8.969A	3.011A	999.270	07.2000/	005	22.0	45.77°C	0.998
10	11.914V	5.019V	3.310V	4.978V	1145.852	87.208%	996	22.8	58.88°C	115.08V
11	84.851A	8.975A	8.974A	3.011A	1099.263	06.1000/	1220	20.0	46.61°C	0.998
11	11.898V	5.017V	3.309V	4.976V	1275.426	86.188%	1230	28.9	60.35°C	115.08V
CI 1	0.101A	18.027A	18.003A	0.004A	151.627	02.50727	0.47	20.4	44.97°C	0.991
CL1	12.037V	5.030V	3.317V	5.074V	183.610	82.581%	847	20.4	54.12°C	115.12V
CI 2	83.247A	1.003A	1.002A	1.002A	1005.614	07.5330/	1126	26.5	46.43°C	0.998
CL2	11.919V	5.028V	3.321V	5.012V	1148.872	87.531%	1126	26.5	59.71°C	115.09V

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20-80	W LOAD	TESTS							
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	PF/AC Volts
-	1.208A	0.491A	0.478A	0.196A	19.651	CE 4210/		0	0.851
1	12.083V	5.040V	3.332V	5.036V	30.033	65.431%	0		115.12V
2	2.445A	0.990A	0.989A	0.396A	39.806	70.1500/	0	0	0.930
2	12.079V	5.038V	3.330V	5.031V	50.287	79.158%			115.12V
2	3.682A	1.476A	1.499A	0.596A	59.878	02.0000/			0.957
3	12.072V	5.038V	3.329V	5.029V	72.963	82.066%	0	0	115.11V
4	4.908A	1.985A	1.977A	0.797A	79.812	04.7010/			0.972
4	12.067V	5.038V	3.329V	5.026V	94.206	84.721%	0	0	115.11V

RIPPLE MEASUREMENTS							
Test	12V	5V	3.3V	5VSB	Pass/Fail		
10% Load	5.0 mV	11.8 mV	3.9 mV	4.5 mV	Pass		
20% Load	6.1 mV	12.2 mV	5.6 mV	4.8 mV	Pass		
30% Load	6.8 mV	12.4 mV	5.4 mV	5.4 mV	Pass		
40% Load	7.4 mV	12.4 mV	6.2 mV	5.7 mV	Pass		
50% Load	8.3 mV	13.0 mV	7.1 mV	6.5 mV	Pass		
60% Load	9.7 mV	13.7 mV	8.7 mV	7.7 mV	Pass		
70% Load	10.0 mV	14.1 mV	9.0 mV	8.5 mV	Pass		
80% Load	11.5 mV	15.0 mV	10.1 mV	10.1 mV	Pass		
90% Load	13.1 mV	17.2 mV	11.1 mV	12.3 mV	Pass		
100% Load	15.6 mV	19.9 mV	13.1 mV	16.5 mV	Pass		
107% Load	18.0 mV	17.1 mV	14.2 mV	13.3 mV	Pass		
Crossload 1	8.3 mV	14.7 mV	6.4 mV	8.7 mV	Pass		
Crossload 2	15.2 mV	17.1 mV	13.0 mV	11.6 mV	Pass		

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HOLD-UP TIME & POWER OK SIGNAL (230V)				
Hold-Up Time (ms)	27.4			
AC Loss to PWR_OK Hold Up Time (ms)	19.9			
PWR_OK Inactive to DC Loss Delay (ms)	7.5			







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