

Anex Corsair RM750 (2019)

Lab ID#: CR19750011

Receipt Date: Mar 21, 2019

Test Date: Mar 29, 2019

Report: 19PS658A

Report Date: Jan 4, 2019

DUT INFORMATION					
Brand	Corsair				
Manufacturer (OEM)	Channel Well Technology				
Series	RM				
Model Number	RM750 (2019)				
Serial Number	19027121000038930024				
DUT Notes	CP-9020195				

DUT SPECIFICATIONS						
Rated Voltage (Vrms)	100-240					
Rated Current (Arms)	10-5					
Rated Frequency (Hz)	47-63					
Rated Power (W)	750					
Туре	ATX12V					
Cooling	140mm Rifle Bearing Fan (HA1425M12F-Z)					
Semi-Passive Operation	✓					
Cable Design	Fully Modular					

POWER SPECIFICATIONS								
Rail	3.3V	5V	12V	5VSB	-12V			
May Payer	Amps	20	20	62.5	3	0.3		
Max. Power Watts		150	150		15	3.6		
Total Max. Power (W)		750	750					

CABLES AND CONNECTORS								
Modular Cables								
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors				
ATX connector 20+4 pin (610mm)	1	1	18-20AWG	No				
4+4 pin EPS12V (650mm)	2	2	18AWG	No				
6+2 pin PCle (600mm+150mm)	3	6	16-18AWG	No				
SATA (450mm+110mm+110mm+110mm)	1	3	18AWG	No				
SATA (500mm+100mm+100mm)	2	6	18AWG	No				
4 pin Molex (450mm+100mm+100mm+100mm)	1	4	18AWG	No				
AC Power Cord (1420mm) - C13 coupler	1	1	16AWG	-				

All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 1/8



Anex

Corsair RM750 (2019)

RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
Average Efficiency	88.623
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	76.846
Average Efficiency 5VSB	77.317
Standby Power Consumption (W) -115V	0.0360372
Standby Power Consumption (W) -230V	0.0589868
Average PF	0.990
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	/
Avg Noise Output	21.00
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	А

TEST EQUIPMENT							
Electronic Loads	Chroma 6314A x2 63123A x6 63102A 63101A	Chroma 63601-5 x4 Chroma 63600-2 x2 63640-80-80 x20 63610-80-20 x2					
AC Sources	Chroma 6530, Chroma 61604, Keysight AC6804B						
Power Analyzers	N4L PPA1530 x2, 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 4955-A, Bruel & Kjaer Type 4189						
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2						

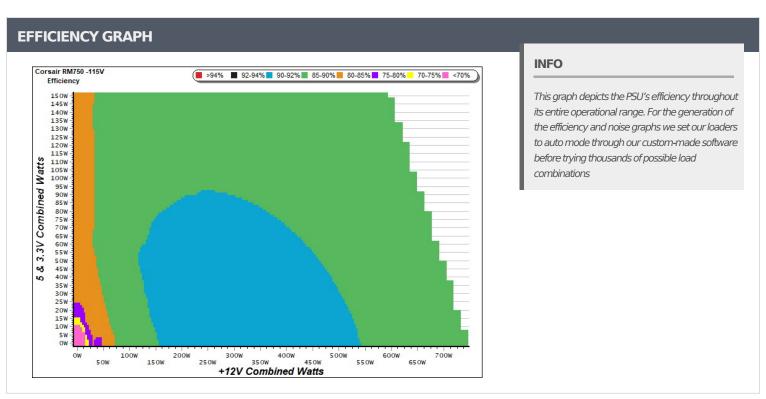
All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 2/8



Anex Corsair RM750 (2019)





All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

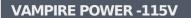
PAGE 3/8

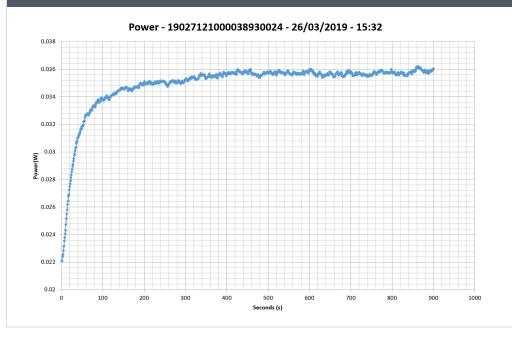


Anex

Corsair RM750 (2019)

5VSB	5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)					EFFICIEN	CY -230V (E	RP LOT 3/6 &	CEC)
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts	Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.228	71.0200/	0.033	1	0.045A	0.228	CE 2200/	0.011
1	5.061V	0.321	71.028%	115.10V	1	5.062V	0.349	65.330%	230.28V
	0.090A	0.456	75.2400/	0.061	2	0.090A	0.456	71.2500/	0.019
2	5.061V	0.606	75.248%	115.10V		5.061V	0.640	71.250%	230.28V
	0.550A	2.778	70 5 6 20 /	0.260	2	0.550A	2.778	76.804%	0.102
3	5.051V	3.536	78.563%	115.10V	3	5.050V	3.617		230.27V
	1.000A	5.039	77.5000/	0.348		1.000A	5.038	77.4010/	0.168
4	5.039V	6.495	77.583%	115.10V	4	5.038V	6.509	77.401%	230.27V
_	1.500A	7.539	77.4200/	0.396	-	1.500A	7.537	77.2500/	0.224
5	5.026V	9.737	77.426%	115.11V	5	5.024V	9.743	77.358%	230.27V
6	3.000A	14.958	76 6520/	0.457	6	3.000A	14.951	77.21.40/	0.320
6	4.986V	19.514	76.653%	115.11V	6	4.983V	19.363	77.214%	230.28V





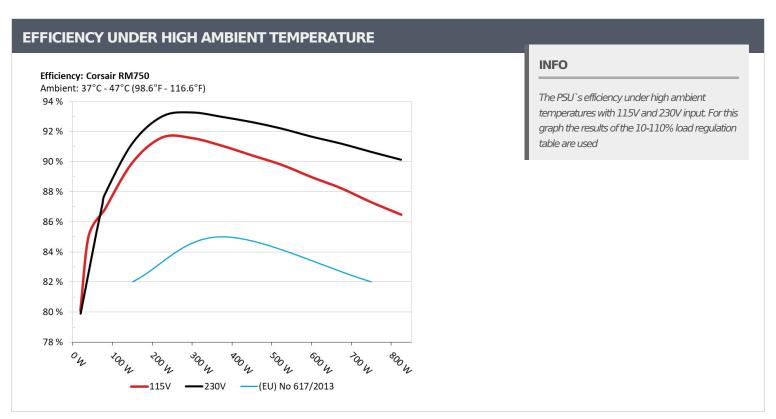
INFO

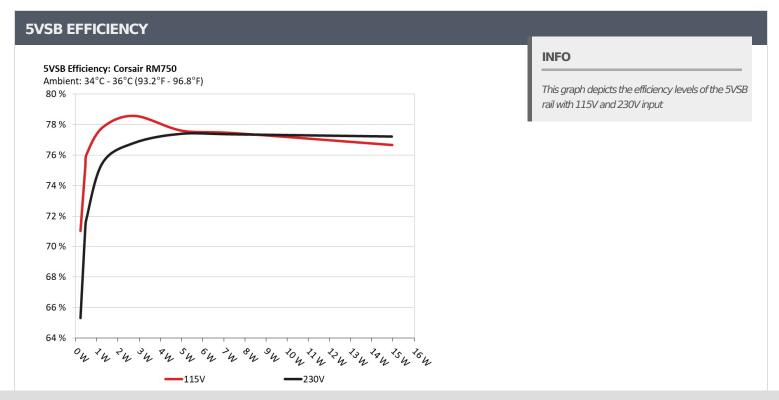
This graph is generated by the PPA Standby Power Analysis software which takes full control of the power analyzer during the whole procedure. This application features all of the EN50564 & IEC62301 test limits for standby power software testing

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 4/8

Anex Corsair RM750 (2019)





All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 5/8



Anex

Corsair RM750 (2019)

10-1	10% LOA	D TESTS								
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
1	4.360A	1.985A	2.005A	0.997A	74.493	06.1770/			42.73°C	0.974
1	12.130V	5.040V	3.291V	5.018V	86.442	86.177%	0	<6.0	39.84°C	115.12V
2	9.778A	2.979A	3.010A	1.197A	149.392	00.0210/		-6.0	44.42°C	0.988
2	12.118V	5.037V	3.288V	5.013V	166.119	89.931%	0	<6.0	40.76°C	115.11V
2	15.625A	3.477A	3.500A	1.398A	224.898	01.6260/			45.61°C	0.991
3	12.089V	5.035V	3.286V	5.007V	245.451	91.626%	0	<6.0	41.07°C	115.11V
	21.399A	3.975A	4.021A	1.600A	299.665	01 5040/			46.67°C	0.993
4	12.078V	5.033V	3.283V	5.000V	327.202	91.584%	0	<6.0	41.78°C	115.11\
_	26.864A	4.972A	5.029A	1.802A	374.613	01.0760/	700	15.0	42.36°C	0.992
5	12.064V	5.031V	3.283V	4.995V	411.318	91.076%	780	15.9	47.71°C	115.11\
	32.324A	5.969A	6.038A	2.005A	449.550				42.84°C	0.992
6	12.057V	5.028V	3.280V	4.989V	497.076	90.439%	781	16.0	49.23°C	115.11\
_	37.842A	6.965A	7.045A	2.208A	524.842	00.0000/	700	16.1	44.18°C	0.993
7	12.043V	5.026V	3.279V	4.984V	584.440	89.803%	783		51.16°C	115.12\
	43.338A	7.967A	8.058A	2.412A	600.169			20.1	44.50°C	0.994
8	12.039V	5.022V	3.277V	4.978V	674.458	88.985%	1122	28.1	52.21°C	115.12\
	49.212A	8.468A	8.546A	2.412A	674.684				45.39°C	0.995
9	12.033V	5.021V	3.276V	4.976V	764.590	88.241%	1407	34.8	53.79°C	115.12\
10	54.905A	8.970A	9.071A	3.026A	749.954	07.05.50	1622	20.0	46.43°C	0.995
10	12.025V	5.018V	3.275V	4.958V	858.914	87.314%	1633	39.0	55.76°C	115.12\
	61.186A	8.974A	9.075A	3.028A	825.176	06.46727	1750	40.0	46.81°C	0.995
11	12.020V	5.016V	3.273V	4.955V	954.100	86.487%	1753	40.8	57.49°C	115.12\
01 -	0.139A	18.005A	18.001A	0.000A	151.022	00.0707	100-	24.5	42.50°C	0.989
CL1	12.116V	5.015V	3.280V	5.070V	182.267	82.858%	1007	24.6	47.74°C	115.14\
a. a	62.520A	1.004A	1.001A	1.000A	765.559				46.14°C	0.995
CL2	12.032V	5.026V	3.272V	4.997V	872.387	87.755%	1715	40.4	55.29°C	115.12\

All data and graphs included in this test report can be used by any individual on the following conditions:

PAGE 6/8

> It should be mentioned that the test results are provided by Cybenetics

> The link to the original test results document should be provided in any case



Anex

Corsair RM750 (2019)

20-80W LOAD TESTS									
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts
	1.193A	0.496A	0.483A	0.199A	19.510	00.1020/		.60	0.829
1	12.088V	5.038V	3.289V	5.034V	24.356	80.103%	0	<6.0	115.11V
	2.452A	0.992A	1.002A	0.398A	39.960	05.0200/	0	<6.0	0.936
2	12.096V	5.039V	3.292V	5.031V	46.990	85.039%			115.11V
_	3.642A	1.488A	1.488A	0.597A	59.447	00.03.50	-6.0	0.963	
3	12.095V	5.039V	3.292V	5.027V	68.634	86.615%	0	<6.0	115.11V
4	4.885A	1.984A	2.005A	0.796A	79.841		.60	0.975	
4	12.128V	5.039V	3.292V	5.023V	91.992	86.791%	0	<6.0	115.11V

RIPPLE MEASUREMENTS								
Test	12V	5V	3.3V	5VSB	Pass/Fail			
10% Load	4.7 mV	6.2 mV	8.6 mV	7.8 mV	Pass			
20% Load	5.5 mV	6.6 mV	10.1 mV	8.3 mV	Pass			
30% Load	10.7 mV	7.4 mV	10.0 mV	9.2 mV	Pass			
40% Load	9.1 mV	8.1 mV	10.3 mV	8.0 mV	Pass			
50% Load	9.1 mV	9.3 mV	12.5 mV	9.3 mV	Pass			
60% Load	9.0 mV	9.2 mV	11.9 mV	8.7 mV	Pass			
70% Load	10.3 mV	9.8 mV	12.1 mV	8.7 mV	Pass			
80% Load	10.3 mV	10.5 mV	12.8 mV	8.9 mV	Pass			
90% Load	11.7 mV	11.0 mV	14.6 mV	11.1 mV	Pass			
100% Load	16.6 mV	12.0 mV	14.9 mV	9.5 mV	Pass			
110% Load	17.7 mV	13.4 mV	15.9 mV	9.3 mV	Pass			
Crossload 1	20.8 mV	10.7 mV	15.8 mV	9.0 mV	Pass			
Crossload 2	15.8 mV	10.4 mV	12.9 mV	9.0 mV	Pass			

All data and graphs included in this test report can be used by any individual on the following conditions:

PAGE 7/8

> It should be mentioned that the test results are provided by Cybenetics

> The link to the original test results document should be provided in any case

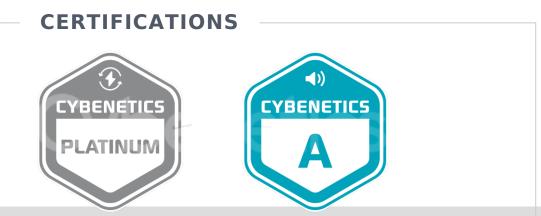
Anex

Corsair RM750 (2019)

HOLD-UP TIME & POWER OK SIGNAL (230V)				
Hold-Up Time (ms)	19.10			
AC Loss to PWR_OK Hold Up Time (ms)	16.70			
PWR_OK Inactive to DC Loss Delay (ms)	2.40			







All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 8/8