

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					
Serial Number	19027121000038930024				
DUT Notes	CP-9020195				
33.13.113.1.33.					

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							

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 DS	52072A
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	

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RESULTS	
Temperature Range (°C/°F)	30-32 / 86-89.6 (+-2°C / +- 3.6°F)
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	/

115V	
Average Efficiency	88.623%
Efficiency With 10W (≤500W) or 2% (>500W)	76.846
Average Efficiency 5VSB	77.317%
Standby Power Consumption (W)	0.0360372
Average PF	0.990
Avg Noise Output	21.00 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	А

230V	
Average Efficiency	90.642%
Average Efficiency 5VSB	76.965%
Standby Power Consumption (W)	0.0589868
Average PF	0.964
Avg Noise Output	20.92 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Α

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

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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	-				

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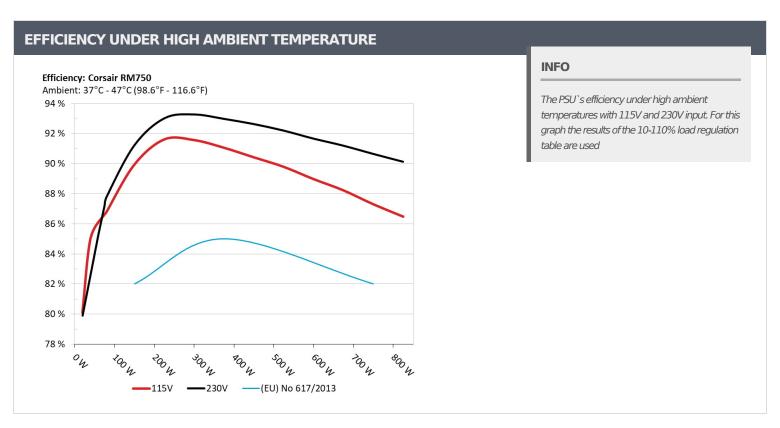
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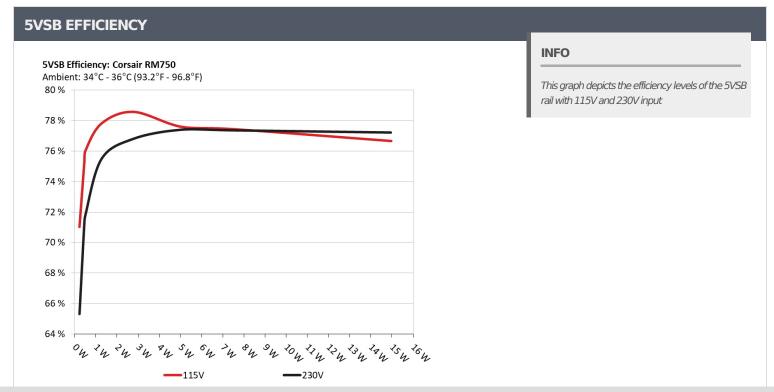
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)						
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts		
1	0.045A	0.228	71.0000/	0.033		
	5.061V	0.321	71.028%	115.10V		
2	0.090A	0.456	75.0400/	0.061		
	5.061V	0.606	75.248%	115.10V		
3	0.550A	2.778	70.56207	0.260		
	5.051V	3.536	78.563%	115.10V		
	1.000A	5.039	77 5020/	0.348		
4	5.039V	6.495	77.583%	115.10V		
_	1.500A	7.539		0.396		
5	5.026V	9.737	77.426%	115.11V		
	3.000A	14.958	76.65207	0.457		
6	4.986V	19.514	76.653%	115.11V		

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)						
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts		
1	0.045A	0.228	GE 2200/	0.011		
	5.062V	0.349	65.330%	230.28V		
2	0.090A	0.456	77.0500/	0.019		
	5.061V	0.640	71.250%	230.28V		
3	0.550A	2.778		0.102		
	5.050V	3.617	76.804%	230.27V		
	1.000A	5.038		0.168		
ŀ	5.038V	6.509	77.401%	230.27V		
	1.500A	7.537		0.224		
5	5.024V	9.743	77.358%	230.27V		
	3.000A	14.951		0.320		
6	4.983V	19.363	77.214%	230.28V		

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115V

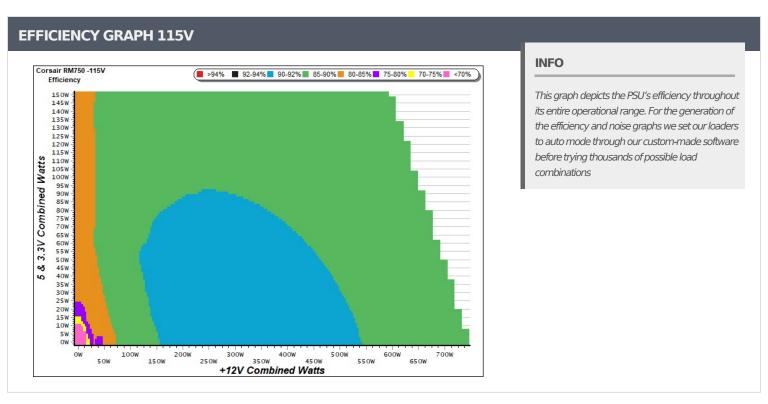
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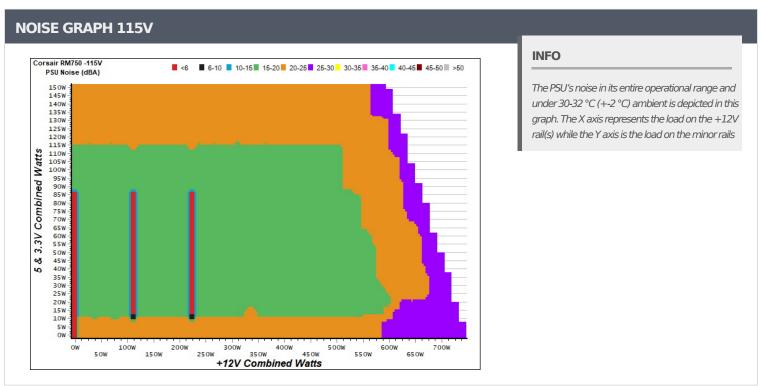
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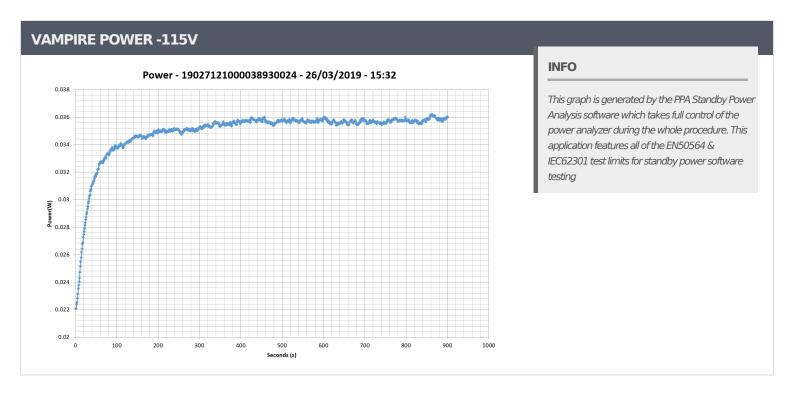
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СОМ	COMMISSION REGULATION (EU) NO 617/2013 TESTING 115V											
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts		
-	4.360A	1.985A	2.005A	0.997A	74.493	06.1770/	0		42.73°C	0.974		
1	12.130V	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/	•	0 <6.0	44.42°C	0.988		
2	12.118V	5.037V	3.288V	5.013V	166.119	89.931%	0		40.76°C	115.11V		
_	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	115.11V		
10	54.905A	8.970A	9.071A	3.026A	749.954	07.21.40/	1600	39.0	46.43°C	0.995		
10	12.025V	5.018V	3.275V	4.958V	858.914	87.314%	1633		55.76°C	115.12V		

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230V

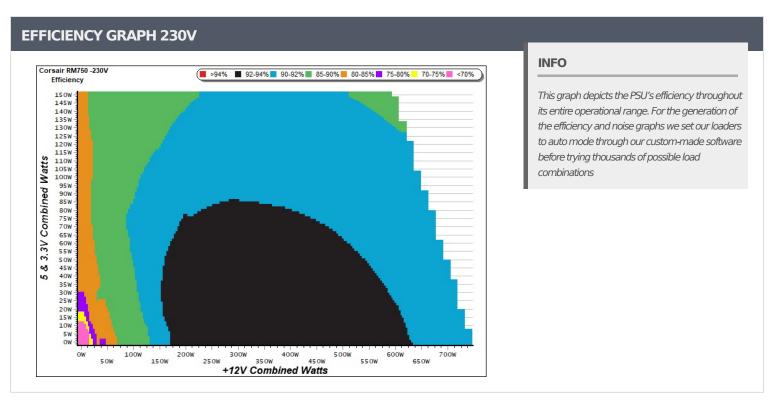
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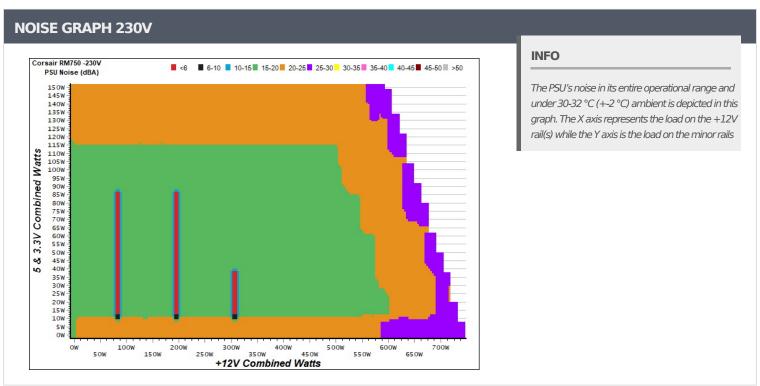
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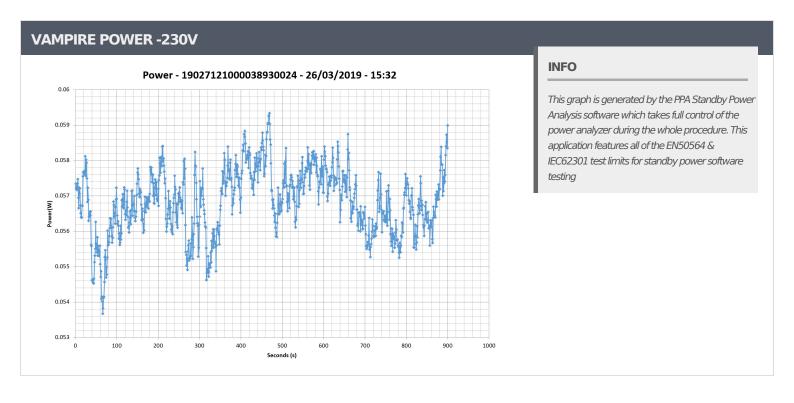
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СОМ	COMMISSION REGULATION (EU) NO 617/2013 TESTING 230V											
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts		
-	4.352A	1.984A	2.004A	0.997A	74.403	07.1020/	0		42.54°C	0.832		
1	12.134V	5.038V	3.292V	5.017V	85.341	87.183% 0 	0	<6.0	39.21°C	230.25V		
2	9.770A	2.977A	3.007A	1.197A	149.304	01.2200/	01.220% 0	<6.0	44.38°C	0.931		
2	12.121V	5.036V	3.289V	5.012V	163.675	91.220%			40.47°C	230.25V		
_	26.856A	4.971A	5.025A	1.802A	374.518	02.0000/	701	100	42.34°C	0.978		
5	12.065V	5.030V	3.283V	4.994V	402.751	92.990%	781	16.0	48.63°C	230.24V		
10	54.895A	8.970A	9.063A	3.026A	749.814	00.6630/	1675	39.7	45.45°C	0.988		
10	12.025V	5.018V	3.276V	4.957V	827.034	90.663%	1675		55.88°C	230.24V		

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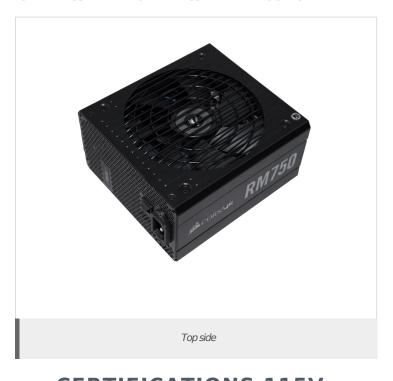
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Aristeidis BitziopoulosLab Director

CERTIFICATIONS 230V





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