

Report:

Anex Corsair RM750x (2018)

Lab ID#: 269
Receipt Date: -

Report Date: Sep 1, 2018

Test Date: -

DUT INFORMATION					
Brand	Corsair				
Manufacturer (OEM)	Channel Well Technology				
Series	RMx				
Model Number	RM750x (2018)				
Serial Number	17477137000034440117				
DUT Notes					

DUT SPECIFICATIONS						
Rated Voltage (Vrms)	100-240					
Rated Current (Arms)	10-5					
Rated Frequency (Hz)	47-63					
Rated Power (W)	750					
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 Dayyar	Amps	25	25 25		3	0.8	
Max. Power Watts		150	150		15	9.6	
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 (600mm)	1	1	18-20AWG	Yes			
4+4 pin EPS12V (650mm)	2	2	18AWG	Yes			
6+2 pin PCle (600mm+150mm)	2	4	18AWG	Yes			
SATA (520mm+110mm+110mm)	3	9	18AWG	No			
4 pin Molex (450mm+100mm+100mm+100mm)	2	8	18AWG	No			
FDD Adapter (+100mm)	1	1	20AWG	No			
AC Power Cord (1430mm) - C13 coupler	1	1	16AWG	-			

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RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
Average Efficiency	90.218
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	77.816
Standby Power Consumption (W) -115V	0.0364795
Standby Power Consumption (W) -230V	0.0543663
Average PF	0.964
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓
Avg Noise Output	15.45
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A+

TEST EQUIPMENT						
Electronic Loads	Chroma 6314A x2 63123A x6 63102A 63101A	Chroma 63601-5 x2 Chroma 63600-2 63640-80-80 x10 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 4955-A, Bruel & Kjaer Type 4189					
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2					

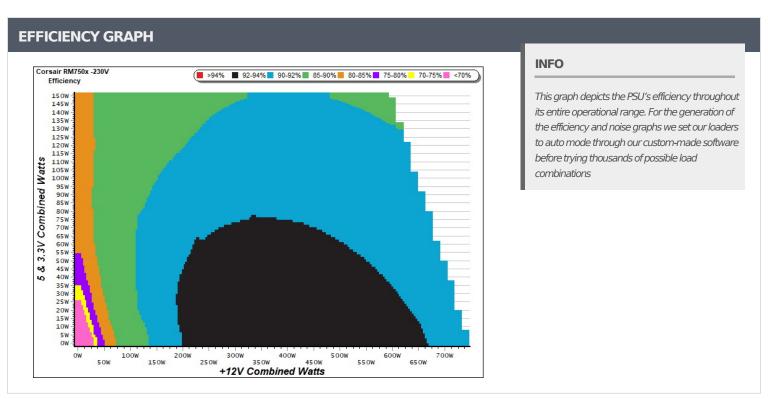
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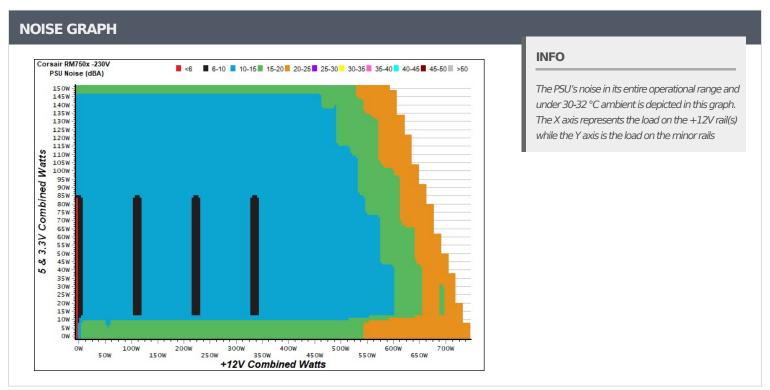
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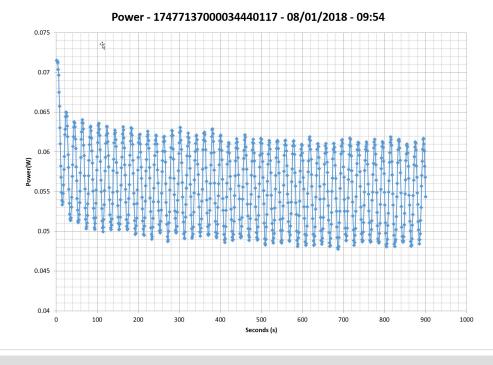


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5VSB	5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)				5VSB	EFFICIEN	CY -230V (E	RP LOT 3/6 &	CEC)
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts	Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.228	71 4720/	0.024	1	0.045A	0.228	CC 4720/	0.009
1	5.059V	0.319	71.473%	115.26V	1	5.059V	0.343	66.472%	230.80V
	0.090A	0.455	75 7070/	0.046		0.090A	0.455	72 2220/	0.016
2	5.058V	0.601	75.707%	115.26V	2	5.058V	0.630	72.222%	230.79V
	0.550A	2.774	70 2020/	0.218		0.550A	2.774	77 7050/	0.088
3	5.044V	3.494	79.393%	115.25V	3	5.044V	3.569	77.725%	230.79V
	1.000A	5.031		0.315		1.000A	5.030		0.149
4	5.031V	6.400	78.609%	115.25V	4	5.030V	6.415	78.410%	230.79V
_	1.500A	7.526	70.0410/	0.374 1.500A 7.527	70.0760/	0.205			
5	5.017V	9.619	78.241%	115.25V	5	5.018V	9.616	78.276%	230.79V
	3.000A	14.927	76 02201	0.451		3.000A	14.921	77 6000/	0.312
6	4.976V	19.428	76.832%	115.23V	6	4.974V	19.226	77.608%	230.78V

VAMPIRE POWER -230V



INFO

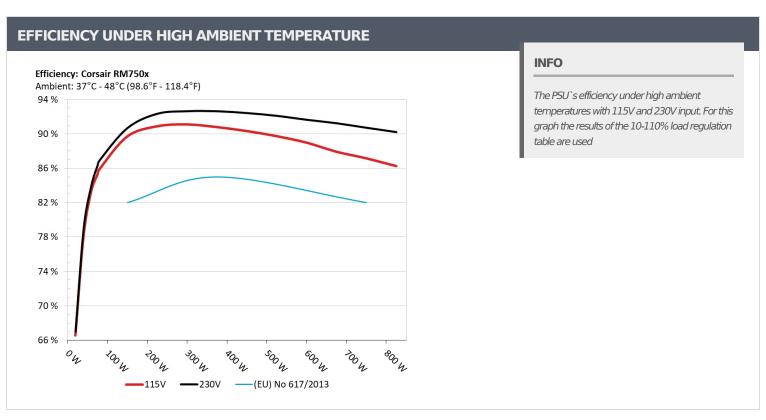
This graph is generated by the PPA Standby Power Analysis software which takes full control of the power analyzer during the whole procedure. This application features all of the EN50564 & IEC62301 test limits for standby power software testing

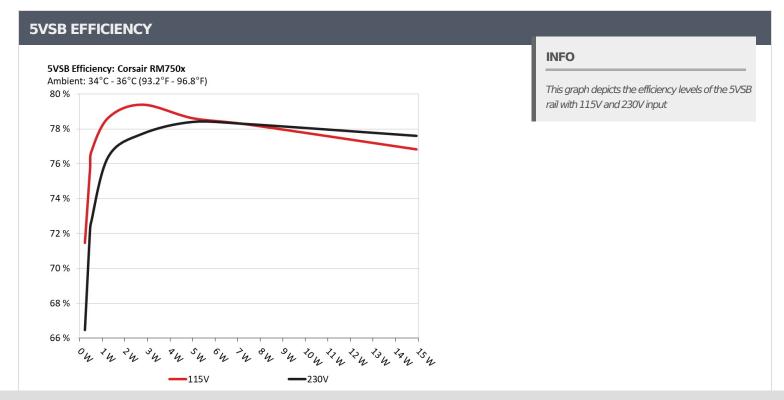
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10-1	.10% LOA	D TESTS								
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
-	4.388A	1.984A	1.988A	0.997A	74.513	06.2020/			53.28°C	0.820
1	12.057V	5.041V	3.320V	5.019V	86.359	86.283%	0	<6.0	38.36°C	230.87\
2	9.835A	2.977A	2.983A	1.197A	149.420	00.6700/		-6.0	54.08°C	0.927
2	12.051V	5.039V	3.317V	5.015V	164.795	90.670%	0	<6.0	38.56°C	230.81\
2	15.673A	3.475A	3.469A	1.398A	224.917	02.2400/		-6.0	55.31°C	0.959
3	12.053V	5.038V	3.315V	5.010V	243.555	92.348%	0	<6.0	38.71°C	230.59\
4	21.458A	3.972A	3.986A	1.599A	299.693	02.6420/	610	10.0	38.97°C	0.972
4	12.046V	5.036V	3.313V	5.004V	323.495	92.642%	610	10.2	56.08°C	230.70\
_	26.921A	4.967A	4.985A	1.801A	374.612	02.6400/	40% 610	10.2	39.44°C	0.978
5	12.039V	5.034V	3.311V	4.998V	404.376	92.640%			56.85°C	230.63\
	32.389A	5.963A	5.986A	2.003A	449.520	00.4220/	610	100	40.12°C	0.982
6	12.032V	5.032V	3.309V	4.994V	486.327	92.432%	610	10.2	57.87°C	230.68\
7	37.895A	6.957A	6.982A	2.205A	524.826	02.1000/	610 10.2	10.2	41.13°C	0.985
7	12.026V	5.032V	3.307V	4.990V	569.809	92.106%		10.2	59.12°C	230.63\
	43.408A	7.952A	7.986A	2.407A	600.130	01.6470/	01.647% 822	19.5	42.32°C	0.987
8	12.019V	5.031V	3.306V	4.986V	654.829	91.647%			60.93°C	230.57\
	49.286A	8.451A	8.475A	2.408A	674.638	01.0460/	1040	27.0	44.41°C	0.988
9	12.014V	5.030V	3.304V	4.986V	739.360	91.246%	1049	27.0	63.30°C	230.49\
10	54.975A	8.951A	8.994A	3.019A	749.854	00.71.00/			45.90°C	0.989
10	12.008V	5.029V	3.302V	4.969V	826.566	90.719%	1227	33.0	65.19°C	230.43\
11	61.265A	8.952A	9.001A	3.020A	825.072	00.27.52/	1,420	26.0	47.55°C	0.990
11	12.003V	5.027V	3.300V	4.968V	914.554	90.216%	1428	36.9	67.47°C	230.47\
0.1	0.739A	18.003A	18.000A	0.000A	159.175	02.5.1027	705	101	44.07°C	0.942
CL1	12.038V	5.035V	3.313V	5.078V	190.538	83.540%	785	18.1	56.55°C	230.88\
CI 2	62.516A	1.002A	0.999A	1.000A	764.542	01.2450/	1007	22.0	44.83°C	0.989
CL2	12.016V	5.032V	3.304V	5.007V	836.984	91.345%	1227	33.0	60.87°C	230.44\

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20-80W LOAD TESTS									
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts
	1.200A	0.496A	0.481A	0.199A	19.575	67.0000/		<6.0	0.477
1	12.062V	5.041V	3.321V	5.037V	29.213	67.008%	0		230.90V
	2.463A	0.992A	0.993A	0.398A	40.003	70.0570/	0	<6.0	0.673
2	12.060V	5.041V	3.320V	5.032V	50.600	79.057%			230.89V
	3.658A	1.488A	1.474A	0.597A	59.509	94.0440/	-C O	0.772	
3	12.059V	5.041V	3.320V	5.028V	70.807	84.044%	0	<6.0	230.88V
	4.920A	1.983A	1.987A	0.796A	79.913	06.0070/		<6.0	0.835
4	12.057V	5.041V	3.320V	5.024V	91.931	86.927%	0		230.86V

RIPPLE MEASUREMENTS								
Test	12V	5V	3.3V	5VSB	Pass/Fail			
10% Load	2.6 mV	5.0 mV	3.3 mV	4.0 mV	Pass			
20% Load	2.5 mV	5.6 mV	3.5 mV	4.5 mV	Pass			
30% Load	7.2 mV	4.8 mV	4.4 mV	3.7 mV	Pass			
40% Load	7.9 mV	11.8 mV	5.2 mV	10.7 mV	Pass			
50% Load	6.8 mV	6.6 mV	4.2 mV	4.9 mV	Pass			
60% Load	6.9 mV	11.7 mV	7.0 mV	6.1 mV	Pass			
70% Load	7.5 mV	7.8 mV	6.8 mV	6.3 mV	Pass			
80% Load	7.4 mV	8.7 mV	8.0 mV	8.0 mV	Pass			
90% Load	7.8 mV	9.1 mV	7.0 mV	7.8 mV	Pass			
100% Load	7.7 mV	9.2 mV	6.9 mV	7.5 mV	Pass			
110% Load	8.6 mV	11.8 mV	6.8 mV	10.4 mV	Pass			
Crossload 1	12.3 mV	10.3 mV	9.2 mV	6.9 mV	Pass			
Crossload 2	7.3 mV	7.4 mV	3.9 mV	6.5 mV	Pass			

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HOLD-UP TIME & POWER OK SIGNAL (230V)				
Hold-Up Time (ms)	23.8			
AC Loss to PWR_OK Hold Up Time (ms)	21.0			
PWR_OK Inactive to DC Loss Delay (ms)	2.8			







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