

Anex Corsair TX850M

Lab ID#: 88

Receipt Date: -

Test Date: -

**DUT Notes** 

Report Date: Nov 4, 2018

Report:

DUT INFORMATION						
Brand	Corsair					
Manufacturer (OEM)	Great Wall					
Series	TXM					
Model Number	TX850M					
Serial Number	17084854000040960743					

CP-9020130 - Retested on 9/28/17

DUT SPECIFICATIONS					
Rated Voltage (Vrms)	100-240				
Rated Current (Arms)	12-6				
Rated Frequency (Hz)	47-63				
Rated Power (W)	850				
Туре	ATX12V				
Cooling	120mm Rifle Bearing Fan (NR120L)				
Semi-Passive Operation	Х				
Cable Design	Semi Modular				

POWER SPECIFICATIONS							
Rail		3.3V	5V	12V	5VSB	-12V	
May Dawar	Amps	25	25	70.8	3	0.8	
Max. Power Watts		130	130		15	9.6	
Total Max. Power (W)		850	850				

CABLES AND CONNECTORS						
Native Cables						
Description	Cable Count	Connector Count (Total)	Gauge			
ATX connector 20+4 pin (600mm)	1	1	16-20AWG			
4+4 pin EPS12V (650mm)	1	1	18AWG			
Modular Cables						
6+2 pin PCle (600mm+150mm)	2	4	18AWG			
SATA (500mm+90mm+90mm+90mm)	2	8	18AWG			
4 pin Molex (450mm+100mm+100mm+100mm)	2	8	18AWG			
FDD (+100mm)	2	2	20AWG			

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RESULTS	
Temperature Range (°C/°F)	30-32 / 86-89.6
Average Efficiency	88.736
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	80.944
Standby Power Consumption (W) -115V	0.0388675
Standby Power Consumption (W) -230V	0.0583520
Average PF	0.987
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	/
Avg Noise Output	27.95
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 4189				
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2				

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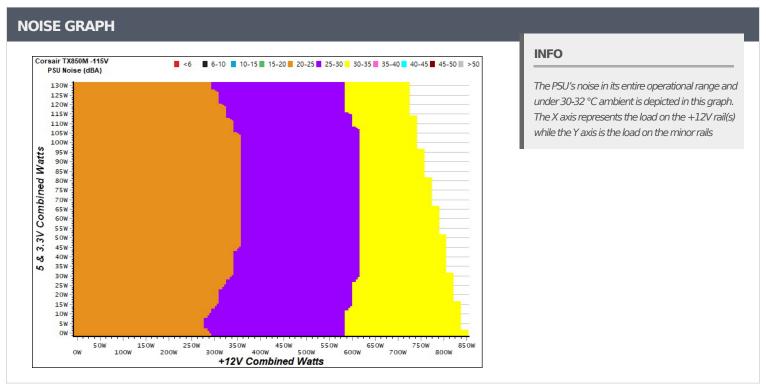
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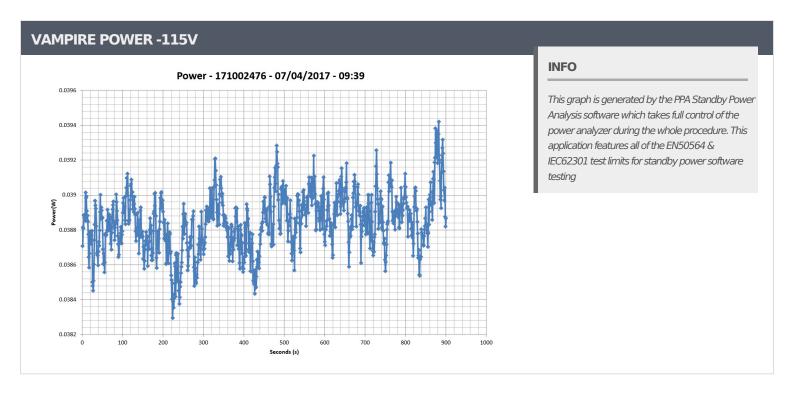
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)							
Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.042A	0.212	72.1000/	0.030			
1	5.064V	0.294	72.109%	115.52V			
2	0.087A	0.442	77 5 4 4 0 /	0.056			
Δ	5.064V	0.570	77.544%	115.05V			
3	0.532A	2.690	01.4660/	0.244			
3	5.057V	3.302	81.466%	115.06V			
4	3.001A	15.067	70.2040/	0.444			
4	5.020V	18.999	79.304%	115.04V			

5VSB	5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)						
Test #	5VSB	5VSB DC/AC (Watts) Efficiency		PF/AC Volts			
1	0.042A	0.211	CC FC20/	0.010			
1	5.064V	0.317	66.562%	230.18V			
2	0.087A	0.442	72.0120/	0.018			
2	5.063V	0.598	73.913%	230.19V			
2	0.532A	2.689	00.1350/	0.095			
3	5.056V	3.356	80.125%	230.19V			
4	3.001A	15.066	00 5040/	0.312			
4	5.020V	18.696	80.584%	230.17V			



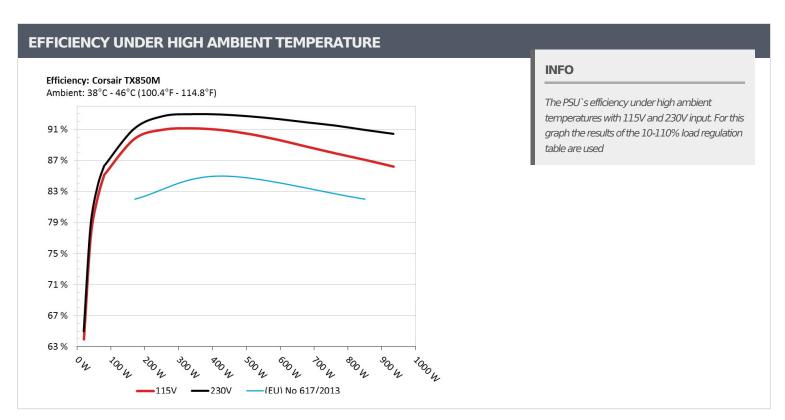
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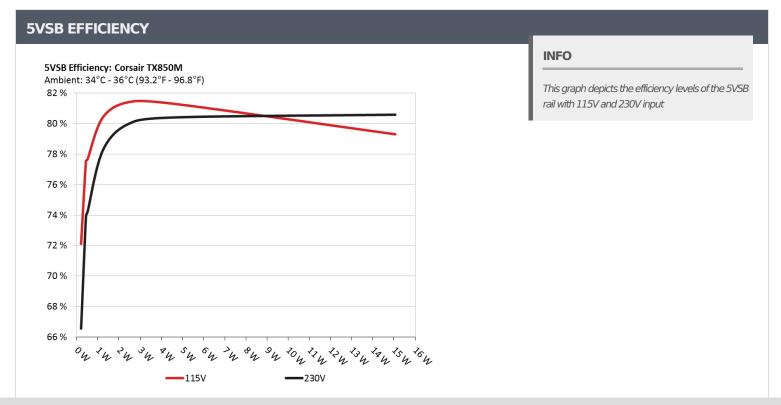
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10-110% LOAD TESTS										
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	Temps (In/Out)	PF/AC Volts
_	5.159A	1.985A	1.976A	0.990A	84.765				39.27°C	0.979
1	12.249V	5.033V	3.336V	5.041V	99.220	85.431%	1298	30.5	40.04°C	115.12V
2	11.345A	2.980A	2.970A	1.190A	169.643	00.01.20/	1204	21.2	39.77°C	0.976
2	12.233V	5.028V	3.330V	5.031V	188.884	89.813%	1394	31.2	40.74°C	115.11V
2	17.911A	3.488A	3.487A	1.391A	254.886	00.0010/	1454	22.4	40.15°C	0.983
3	12.216V	5.021V	3.323V	5.022V	280.154	90.981%	1454	32.4	41.16°C	115.10V
	24.468A	3.985A	3.978A	1.595A	339.731	01.1.410/	1504	22.0	40.67°C	0.988
4	12.202V	5.016V	3.316V	5.012V	372.754	91.141%	1524	33.8	41.89°C	115.10V
_	30.696A	4.984A	4.982A	1.798A	424.573	00.0350/	1506	25.4	41.33°C	0.991
5	12.188V	5.012V	3.308V	5.000V	466.891	90.936%	1596	35.4	42.58°C	115.09V
	36.953A	5.993A	5.996A	2.001A	509.606	00.4000/	1704	37.3	41.98°C	0.992
6	12.173V	5.007V	3.300V	4.989V	563.674	90.408%			43.43°C	115.09V
7	43.241A	7.002A	7.013A	2.203A	594.551	00.05.00/	1829	37.3	43.02°C	0.994
7	12.152V	5.002V	3.293V	4.979V	663.146	89.656%			44.96°C	115.09V
0	49.532A	8.006A	8.034A	2.416A	679.523	00 77 40/	1047	39.9	43.67°C	0.995
8	12.136V	4.996V	3.286V	4.969V	765.450	88.774%	1847		46.04°C	115.09V
0	56.261A	8.516A	8.567A	2.417A	764.510	07.0000/	1047	20.0	44.79°C	0.995
9	12.121V	4.989V	3.279V	4.962V	869.674	87.908%	1847	39.9	47.62°C	115.08V
10	62.765A	9.036A	9.075A	3.031A	849.400	07.0020/	1047	20.0	45.60°C	0.996
10	12.104V	4.983V	3.271V	4.943V	975.295	87.092%	1847	39.9	48.64°C	115.08V
11	69.864A	9.053A	9.096A	3.037A	934.380	06.2200/	1047	20.0	46.33°C	0.996
11	12.090V	4.975V	3.265V	4.935V	1083.710	86.220%	1847	39.9	49.95°C	115.08V
Cl 1	0.099A	16.025A	16.004A	0.004A	135.115	02.0020/	1050	25.0	43.65°C	0.975
CL1	12.239V	5.047V	3.312V	5.032V	162.627	83.083%	1659	35.9	45.58°C	115.10V
CI 2	54.126A	1.003A	1.003A	1.003A	670.582	00.4040/	1047	20.0	44.41°C	0.994
CL2	12.143V	4.990V	3.300V	5.000V	749.385	89.484%	1847	39.9	46.69°C	115.11V

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20-80W LOAD TESTS									
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	PF/AC Volts
1	1.191A	0.491A	0.477A	0.194A	19.644	62.0500/	1105	20.5	0.891
1	12.255V	5.036V	3.343V	5.059V	30.714	63.958%	1195	28.5	115.11V
2	2.411A	0.990A	0.985A	0.397A	39.822	77.2060/	1205	28.7	0.962
2	12.252V	5.035V	3.341V	5.055V	51.579	77.206%			115.10V
2	3.623A	1.480A	1.495A	0.590A	59.815	1242	20.6	0.977	
3	12.253V	5.034V	3.339V	5.050V	72.838	82.121%	1242	29.6	115.10V
4	4.833A	1.985A	1.974A	0.792A	79.775	05.1500/	1055	20.0	0.981
4	12.249V	5.033V	3.338V	5.045V	93.679	85.158%	1255	29.8	115.10V

RIPPLE MEASUREMENTS							
Test	12V	5V	3.3V	5VSB	Pass/Fail		
10% Load	22.3 mV	5.1 mV	7.7 mV	4.5 mV	Pass		
20% Load	20.5 mV	6.3 mV	9.1 mV	5.7 mV	Pass		
30% Load	21.7 mV	6.6 mV	10.6 mV	7.2 mV	Pass		
40% Load	23.7 mV	6.8 mV	11.5 mV	8.4 mV	Pass		
50% Load	27.0 mV	8.3 mV	11.9 mV	13.8 mV	Pass		
60% Load	29.7 mV	9.2 mV	12.6 mV	12.6 mV	Pass		
70% Load	34.5 mV	9.5 mV	12.8 mV	14.9 mV	Pass		
80% Load	39.1 mV	10.9 mV	13.6 mV	16.0 mV	Pass		
90% Load	44.2 mV	11.9 mV	14.9 mV	17.9 mV	Pass		
100% Load	51.1 mV	13.7 mV	18.8 mV	21.9 mV	Pass		
110% Load	58.8 mV	15.2 mV	21.6 mV	24.6 mV	Pass		
Crossload 1	23.2 mV	8.1 mV	9.5 mV	7.4 mV	Pass		
Crossload 2	40.3 mV	9.8 mV	16.2 mV	16.8 mV	Pass		

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HOLD-UP TIME & POWER OK SIGNAL (230V)				
Hold-Up Time (ms)	17.68			
AC Loss to PWR_OK Hold Up Time (ms)	13.9			
PWR_OK Inactive to DC Loss Delay (ms)	3.78			







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