

Anex Corsair TX550M

Lab ID#: 87
Receipt Date: -

Test Date: -

Report Date: Nov 4, 2018

Report:

DUT INFORMATION					
Brand	Corsair				
Manufacturer (OEM)	Great Wall				
Series	TXM				
Model Number	TX550M				
Serial Number	17084874000040720149				
DUT Notes	CP-9020133 - Retested on 9/28/17				

DUT SPECIFICATIONS					
Rated Voltage (Vrms)	100-240				
Rated Current (Arms)	10-5				
Rated Frequency (Hz)	47-63				
Rated Power (W)	550				
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 Payer	Amps	25	25 20		3	0.8
Max. Power Watts		120	120		15	9.6
Total Max. Power (W)		550	550			

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 (660mm)	1	1	18AWG		
Modular Cables					
6+2 pin PCle (600mm+150mm)	1	2	18AWG		
SATA (500mm+95mm)	2	5	18AWG		
4 pin Molex (450mm+100mm+100mm+100mm)	1	4	18AWG		
FDD Adapter	1	1	20AWG		

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RESULTS	
Temperature Range (°C/°F)	30-32 / 86-89.6
Average Efficiency	87.688
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	79.162
Standby Power Consumption (W) -115V	0.0549606
Standby Power Consumption (W) -230V	0.0746268
Average PF	0.990
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	·
Avg Noise Output	32.32
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard++

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					

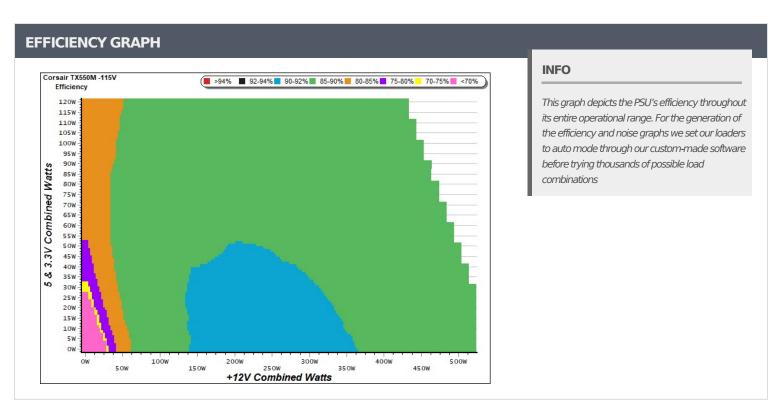
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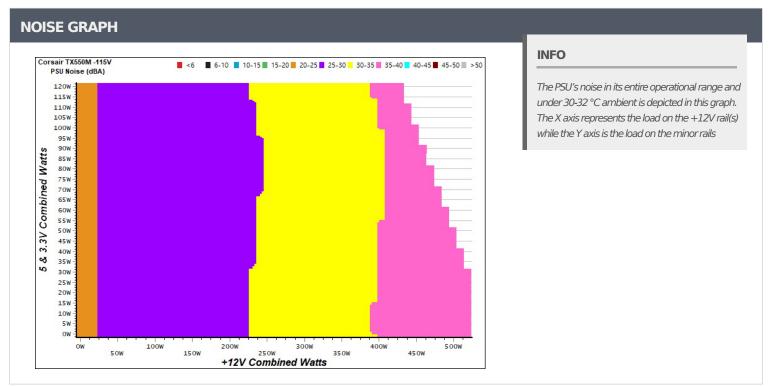
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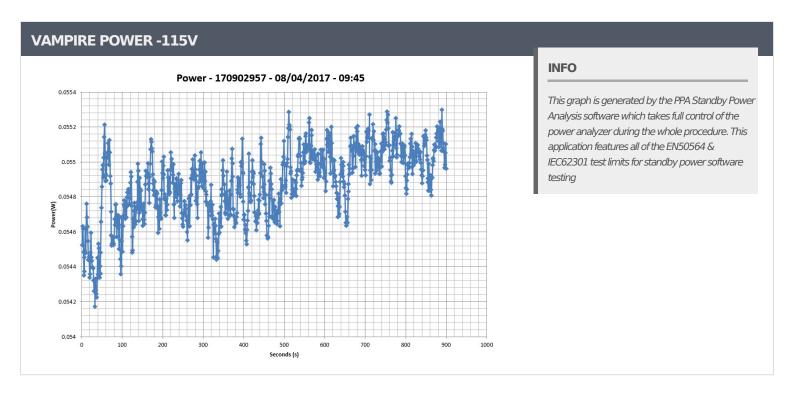
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5VSB	5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)						
Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.042A	0.213	CO 4000/	0.029			
1	5.086V	0.311	68.489%	115.05V			
2	0.088A	0.445	75 5520/	0.053			
2	5.086V 0.589		75.552%	115.05V			
2	0.532A	2.701	00 1000/	0.246			
3	5.074V	3.368	80.196%	115.05V			
4	3.002A 15.049		77 50 40/	0.481			
4	5.013V	19.412	77.524%	115.04V			

5VSB	5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)							
Test #	5VSB	DC/AC (Watts) Efficiency		PF/AC Volts				
1	0.042A	0.213	62.0640/	0.009				
Т	5.086V	0.333	63.964%	230.19V				
2	0.087A	0.445	72.358%	0.017				
	5.085V	0.615	72.338%	230.20V				
3	0.532A	2.700	70.1560/	0.090				
3	5.074V	3.411	79.156%	230.20V				
4	3.001A	15.045	70 5070/	0.323				
4	5.013V	19.164	78.507%	230.18V				



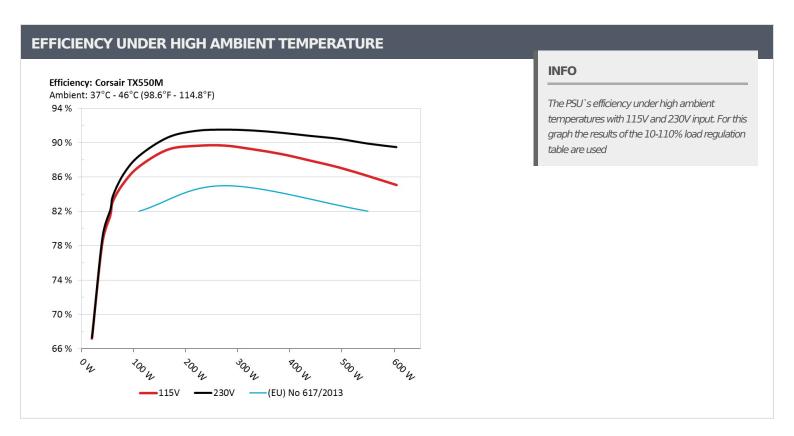
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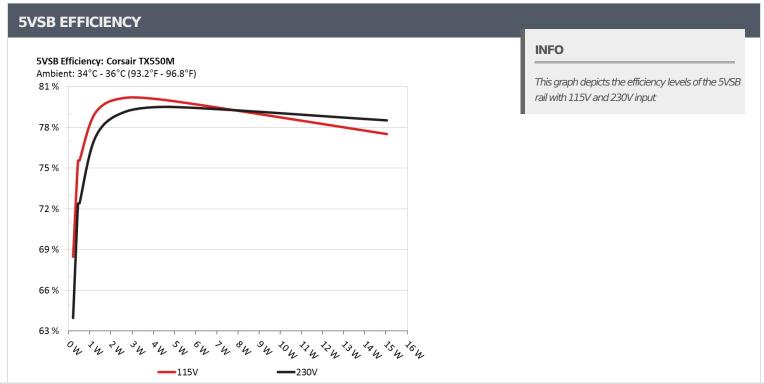
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10-1	.10% LOA	D TESTS								
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	Fan Noise (dB[A])	Temps (In/Out)	PF/AC Volts
	2.744A	1.996A	1.990A	0.989A	54.761	01.4010/	1505	22.6	39.41°C	0.960
1	12.082V	5.021V	3.312V	5.050V	67.207	81.481%	1505	33.6	40.58°C	115.13V
2	6.536A	2.991A	2.993A	1.191A	109.770	07.21.40/	1544	242	39.69°C	0.982
2	12.071V	5.010V	3.304V	5.038V	125.863	87.214%	1544	34.2	41.04°C	115.13V
_	10.678A	3.501A	3.515A	1.390A	164.870	20.20.40/	1	245	40.27°C	0.989
3	12.061V	5.002V	3.296V	5.026V	184.823	89.204%	1571	34.5	41.65°C	115.13V
	14.816A	4.005A	4.009A	1.596A	219.758	00 6510/	1650	26.1	40.45°C	0.991
4	12.053V	4.991V	3.290V	5.013V	245.125	89.651%	1659	36.1	41.98°C	115.12V
_	18.621A	5.017A	5.026A	1.799A	274.744	20.5040/			40.69°C	0.993
5	12.044V	4.980V	3.282V	4.999V	306.346	89.684%	1728	37.4	42.20°C	115.13V
	22.432A	6.040A	6.047A	2.004A	329.728	00.0410/	1769 3	20.6	41.00°C	0.994
6	12.033V	4.969V	3.274V	4.986V	369.482	89.241%		38.6	42.54°C	115.12V
7	26.247A	7.060A	7.068A	2.210A	384.680	00.6700/	1020	20.0	41.37°C	0.995
7	12.024V	4.958V	3.267V	4.974V	433.790	88.679%	1838	39.8	43.05°C	115.12V
•	30.067A	8.091A	8.100A	2.415A	439.611	07.0010/	1000	20.0	42.08°C	0.995
8	12.014V	4.946V	3.258V	4.960V	500.009	87.921%	1838	39.8	44.16°C	115.12V
	34.324A	8.610A	8.642A	2.420A	494.696	07.1010/			43.19°C	0.995
9	12.006V	4.939V	3.251V	4.951V	567.825	87.121%	1838	39.8	45.70°C	115.12V
10	38.326A	9.133A	9.152A	3.041A	549.561	06.1269/	1000	20.0	44.65°C	0.996
10	11.999V	4.929V	3.244V	4.927V	638.018	86.136%	1838	39.8	47.59°C	115.12V
11	42.930A	9.140A	9.166A	3.049A	604.502	05.00227	1020	20.0	45.84°C	0.996
11	11.992V	4.924V	3.239V	4.917V	710.489	85.083%	1838	39.8	49.72°C	115.12V
Cl 1	0.099A	14.025A	14.005A	0.006A	116.682	01.65 = 27	1022	20.0	44.65°C	0.987
CL1	12.062V	4.953V	3.284V	5.040V	142.963	81.617%	1838	39.8	47.72°C	115.13V
CI 2	42.964A	1.004A	1.002A	1.002A	529.452	07.55.407	1020	20.0	44.44°C	0.995
CL2	12.014V	4.979V	3.271V	4.997V	604.716	87.554%	1838	39.8	47.56°C	115.11V

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20-80	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	1.205A	0.492A	0.479A	0.195A	19.624	67.1660/	1264	20.0	0.875
1	12.089V	5.034V	3.319V	5.077V	29.217	67.166%	1364	30.8	115.12V
2	2.438A	0.991A	0.994A	0.390A	39.720	70.2520/	1.421	21.7	0.943
2	12.085V	5.029V	3.316V	5.068V	50.694	78.352%	1431	31.7	115.12V
2	3.675A	1.488A	1.506A	0.590A	59.847	02.1740/	1454	22.4	0.965
3	12.081V	5.024V	3.313V	5.060V	71.954	83.174%	1454	32.4	115.13V
4	4.900A	1.996A	1.991A	0.789A	79.773	05.2440/	1404	33.4	0.975
4	12.077V	5.019V	3.310V	5.053V	93.582	85.244%	1494		115.13V

RIPPLE MEASUREMENTS							
Test	12V	5V	3.3V	5VSB	Pass/Fail		
10% Load	29.0 mV	9.0 mV	9.0 mV	10.4 mV	Pass		
20% Load	26.4 mV	6.1 mV	7.5 mV	9.8 mV	Pass		
30% Load	21.3 mV	5.1 mV	8.0 mV	10.9 mV	Pass		
40% Load	22.3 mV	5.0 mV	7.9 mV	12.2 mV	Pass		
50% Load	23.8 mV	5.6 mV	8.6 mV	13.3 mV	Pass		
60% Load	24.1 mV	13.0 mV	16.5 mV	16.1 mV	Pass		
70% Load	26.5 mV	13.9 mV	17.4 mV	17.5 mV	Pass		
80% Load	28.9 mV	15.6 mV	16.4 mV	20.2 mV	Pass		
90% Load	30.8 mV	14.7 mV	15.8 mV	20.9 mV	Pass		
100% Load	38.1 mV	16.2 mV	20.3 mV	26.4 mV	Pass		
110% Load	41.8 mV	16.6 mV	22.2 mV	31.1 mV	Pass		
Crossload 1	21.1 mV	15.1 mV	18.6 mV	34.7 mV	Pass		
Crossload 2	36.4 mV	9.0 mV	12.2 mV	17.0 mV	Pass		

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HOLD-UP TIME & POWER OK SIGNAL (230V)			
Hold-Up Time (ms)	11.84		
AC Loss to PWR_OK Hold Up Time (ms)	7.56		
PWR_OK Inactive to DC Loss Delay (ms)	4.28		







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