

Anex

Corsair TX550M (Sample #2)

Report:

Lab ID#: 192
Receipt Date: -

Test Date: - Report Date: Oct 10, 2018

DUT INFORMATION					
Brand	Corsair				
Manufacturer (OEM)	Great Wall				
Series	TXM				
Model Number	TX550M (Sample #2)				
Serial Number	17284859000040690272				
DUT Notes	CP-9020133-NA				

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					

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	88.152
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	78.959
Standby Power Consumption (W) -115V	0.0719416
Standby Power Consumption (W) -230V	0.0934057
Average PF	0.988
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	·
Avg Noise Output	33.28
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Standard++

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	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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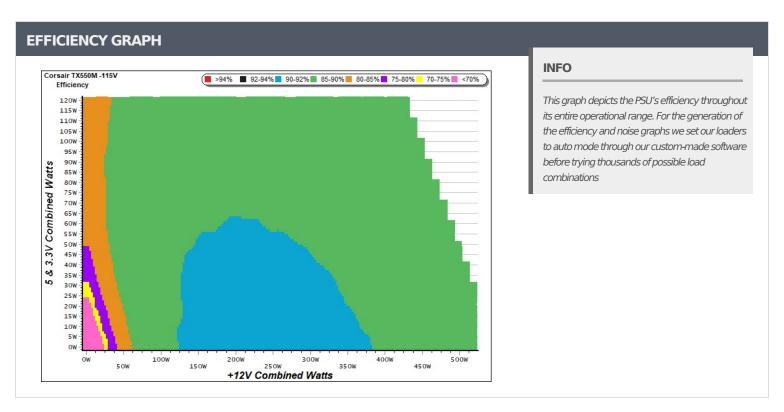
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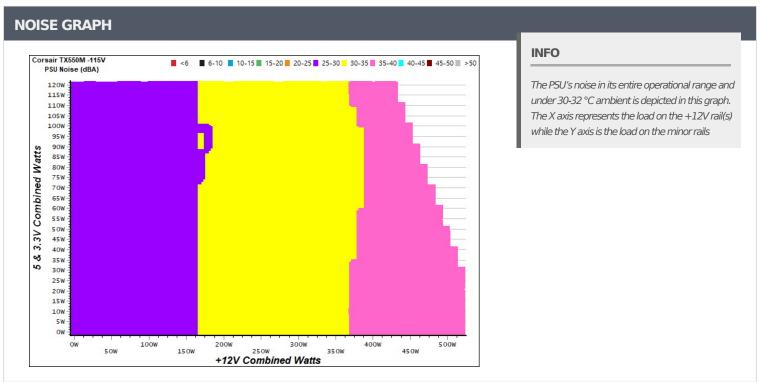
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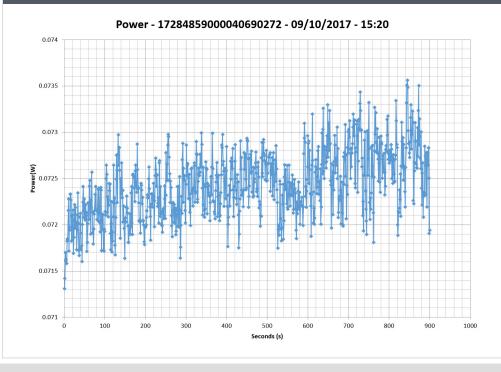
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)							
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts			
1	0.042A	0.212	C4 C240/	0.030			
1	5.089V	0.328	64.634%	115.13V			
2	0.087A	0.445	74 2000/	0.054			
2	5.088V	0.599	74.290%	115.14V			
2	0.542A	2.752	00.0470/	0.246			
3	5.078V	3.438	80.047%	115.11V			
4	1.002A	5.078	00.1710/	0.347			
4	5.067V	6.334	80.171%	115.13V			
F	1.502A	7.592	70 71 40/	0.404			
5	5.056V	9.524	79.714%	115.13V			
	3.001A	15.070	77.4050/	0.477			
6	5.021V	19.469	77.405%	115.12V			

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)							
Test #	5VSB	DC/AC (Watts) Efficiency		PF/AC Volts			
1	0.042A	0.212	61.0050/	0.009			
1	5.089V	0.347	61.095%	230.30V			
2	0.087A	0.444	70.7010/	0.017			
2	5.088V	0.628	70.701%	230.31V			
	0.542A	2.753	70.0720/	0.091			
3	5.078V	3.486	78.973%	230.31V			
4	1.002A	5.078	70.4600/	0.155			
4	5.067V	6.390	79.468%	230.31V			
_	1.502A	7.593	70 5010/	0.212			
5	5 5.056V 9.540		79.591%	230.30V			
6	3.001A	15.073	70.6360/	0.321			
6	5.022V	19.168	78.636%	230,30V			

VAMPIRE POWER -115V



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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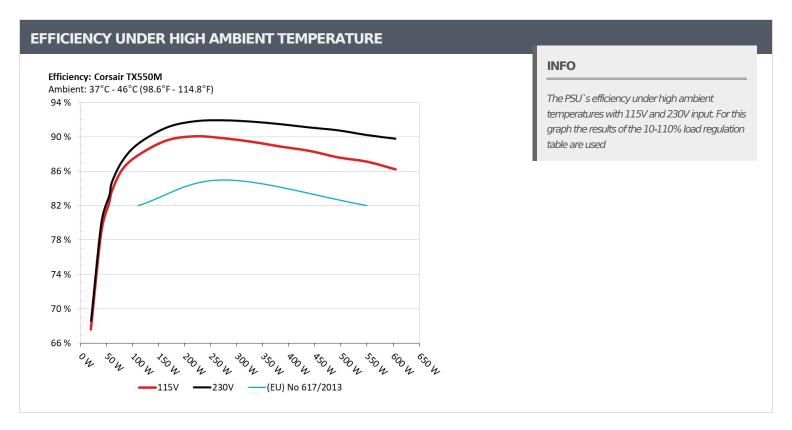
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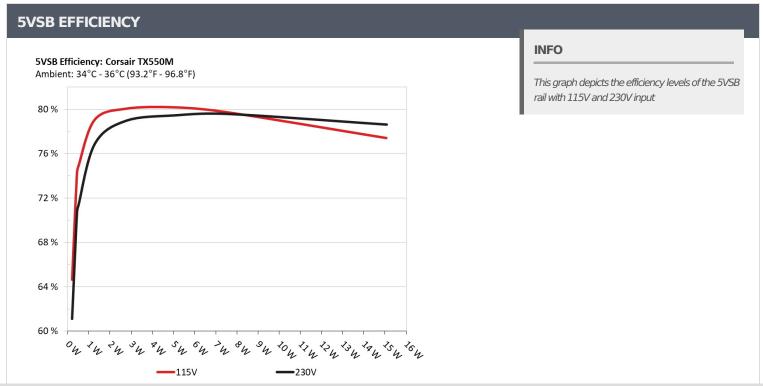
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10-1	.10% LOA	D TESTS								
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
_	2.739A	1.993A	1.989A	0.986A	54.791				38.20°C	0.962
1	12.133V	5.007V	3.313V	5.061V	66.533	82.352%	1481	33.1	39.97°C	115.09V
2	6.510A	2.991A	2.989A	1.186A	109.763	07.0620/	1510	22.7	38.51°C	0.981
2	12.123V	5.003V	3.308V	5.051V	124.926	87.862%	1512	33.7	40.56°C	115.08V
2	10.629A	3.508A	3.508A	1.386A	164.903	00 6050/	1544	242	38.86°C	0.987
3	12.117V	4.998V	3.304V	5.042V	184.034	89.605%	1544	34.2	41.29°C	115.08V
	14.753A	4.004A	3.999A	1.586A	219.811	00.0010/	1500	25.4	39.14°C	0.990
4	12.109V	4.993V	3.299V	5.033V	243.989	90.091%	1596	35.4	42.09°C	115.08V
_	18.535A	5.008A	5.006A	1.791A	274.781	20.0000/	1600	26.6	39.46°C	0.992
5	12.102V	4.988V	3.295V	5.023V	305.767	89.866%	1689	36.6	43.11°C	115.07V
-	22.322A	6.018A	6.013A	1.995A	329.764	00.4420/	1769	20.6	40.19°C	0.992
6	12.095V	4.984V	3.291V	5.011V	368.685	89.443%		38.6	44.52°C	115.07V
-	26.113A	7.023A	7.023A	2.198A	384.703	00.0000/	1838	1838 39.8	41.54°C	0.992
7	12.088V	4.980V	3.287V	5.000V	432.775	88.892%			45.99°C	115.07V
0	29.906A	8.043A	8.039A	2.404A	439.693	00.2020/	1000	20.0	42.14°C	0.992
8	12.081V	4.975V	3.283V	4.988V	497.432	88.393%	1838	39.8	47.57°C	115.06V
0	34.137A	8.544A	8.568A	2.405A	494.728	07.6210/	1000		44.00°C	0.990
9	12.074V	4.972V	3.279V	4.983V	564.560	87.631%	1838	39.8	50.64°C	115.06V
10	38.118A	9.063A	9.065A	3.019A	549.622	07.1.410/	1000	20.0	44.95°C	0.991
10	12.066V	4.968V	3.274V	4.964V	630.728	87.141%	1838	39.8	53.06°C	115.06V
11	42.690A	9.068A	9.076A	3.021A	604.539	06.2440/	1020	20.0	45.95°C	0.991
11	12.060V	4.965V	3.272V	4.958V	700.966	86.244%	1838	39.8	55.82°C	115.05V
CL 1	0.101A	14.026A	14.004A	0.005A	117.578	02.1262/	1020	20.0	43.92°C	0.985
CL1	12.110V	4.998V	3.301V	5.061V	141.446	83.126%	1838	39.8	49.34°C	115.08V
CI 2	42.972A	1.003A	1.001A	1.002A	532.296	00.2720/	1020	20.0	43.84°C	0.990
CL2	12.077V	4.981V	3.287V	5.027V	603.017	88.272%	1838	39.8	51.25°C	115.06V

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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	1.206A	0.490A	0.481A	0.196A	19.674	67.6220/	1200	20.5	0.890
1	12.128V	5.012V	3.317V	5.083V	29.094	67.622%	1298	30.5	115.09V
2	2.431A	0.990A	0.995A	0.391A	39.728	70,0000/	1364	30.8	0.946
2	12.129V	5.010V	3.315V	5.077V	50.294	78.992%			115.09V
2	3.665A	1.487A	1.507A	0.591A	59.900	02.7120/	1.421	21.7	0.966
3	12.132V	5.008V	3.313V	5.071V	71.555	83.712%	1431	31.7	115.09V
4	4.883A	1.994A	1.990A	0.786A	79.773	06 2050/	1454	22.4	0.972
4	12.128V	5.005V	3.312V	5.064V	92.539	86.205%	1454	32.4	115.09V

RIPPLE MEASUREMENTS							
Test	12V	5V	3.3V	5VSB	Pass/Fail		
10% Load	29.6 mV	5.8 mV	6.8 mV	11.1 mV	Pass		
20% Load	28.4 mV	7.5 mV	7.6 mV	12.0 mV	Pass		
30% Load	22.7 mV	8.2 mV	10.6 mV	13.0 mV	Pass		
40% Load	23.1 mV	9.2 mV	12.5 mV	16.5 mV	Pass		
50% Load	21.6 mV	10.5 mV	14.6 mV	15.8 mV	Pass		
60% Load	23.6 mV	11.5 mV	14.7 mV	18.3 mV	Pass		
70% Load	26.5 mV	12.6 mV	15.5 mV	21.3 mV	Pass		
80% Load	28.9 mV	12.3 mV	16.5 mV	25.8 mV	Pass		
90% Load	34.1 mV	12.9 mV	17.2 mV	26.9 mV	Pass		
100% Load	32.5 mV	14.4 mV	35.8 mV	31.7 mV	Pass		
110% Load	41.2 mV	21.9 mV	39.5 mV	41.6 mV	Pass		
Crossload 1	26.5 mV	11.9 mV	13.6 mV	36.7 mV	Pass		
Crossload 2	33.3 mV	15.0 mV	25.4 mV	18.6 mV	Pass		

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HOLD-UP TIME & POWER OK SIGNAL (230V)				
Hold-Up Time (ms)	12.10			
AC Loss to PWR_OK Hold Up Time (ms)	9.48			
PWR_OK Inactive to DC Loss Delay (ms)	2.62			







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