

Report:

Anex Corsair TX550M

Lab ID#: 415
Receipt Date: -

Test Date: - Report Date: Jun 19, 2018

DUT INFORMATION

Brand Corsair

Manufacturer (OEM) Great Wall

Series TXM

Model Number TX550M

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 PCIe (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	90.233
Efficiency With 10W (≤500W) or 2% (>500W) Load -115V	0.000
Average Efficiency 5VSB	78.669
Standby Power Consumption (W) -115V	0.0719416
Standby Power Consumption (W) -230V	0.0934057
Average PF	0.955
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓
Avg Noise Output	31.64
Efficiency Rating (ETA)	PLATINUM
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 4955-A, Bruel & Kjaer Type 4189					
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2					

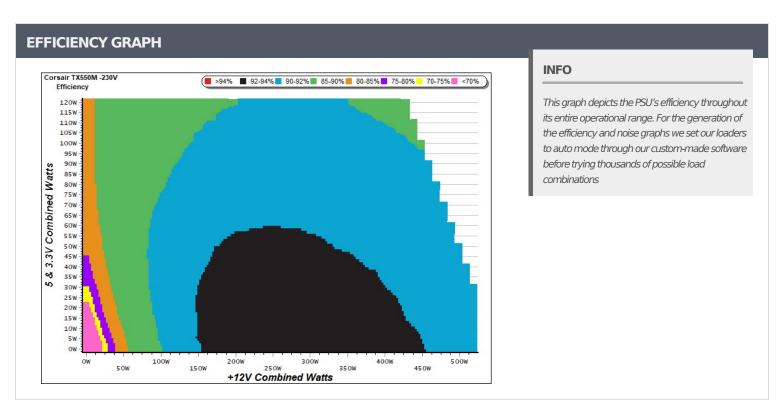
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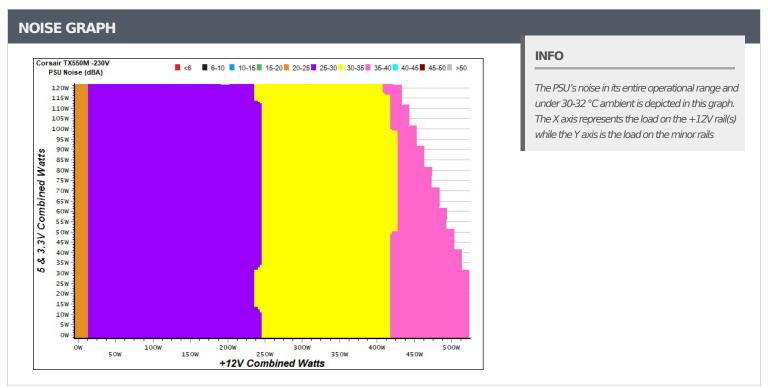
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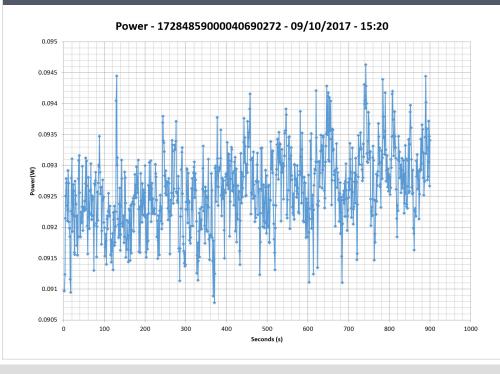


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5VSB	5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)							
Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts				
1	0.042A	0.212	C4 C240/	0.030				
1	5.089V	0.328	64.634%	115.13V				
2	0.087A	0.445	74 2000/	0.054				
2	5.088V	0.599	74.290%	115.14V				
2	0.542A	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				
_	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			
	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	5.056V 9.54		79.591%	230.30V			
6	3.001A	15.073	70.6260/	0.321			
6	5.022V	19.168	78.636%	230.30V			

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

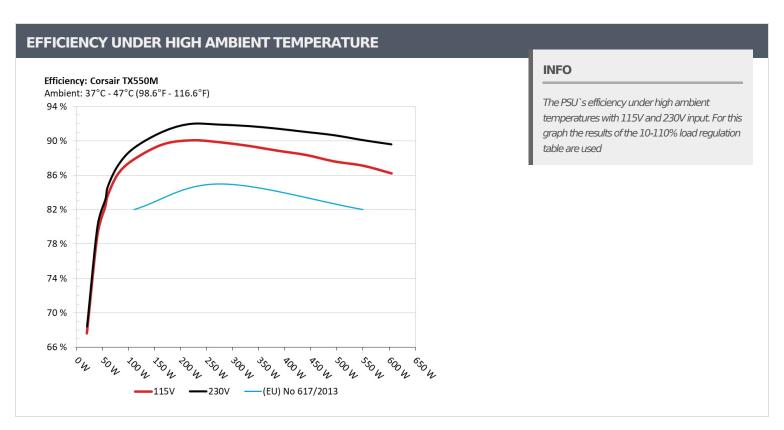
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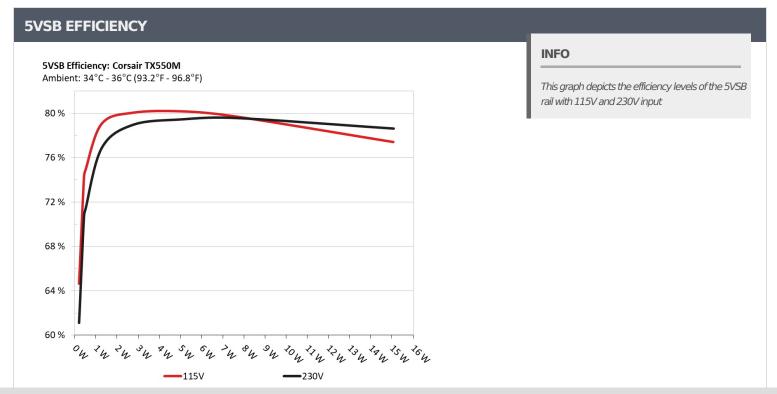
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10-1	.10% LOA	D TESTS									
Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts	
_	2.738A	1.994A	1.989A	0.986A	54.779	02.1770/	1404	22.4	40.10°C	0.794	
1	12.131V	5.007V	3.312V	5.063V	65.858	83.177%	1494	33.4	43.80°C	230.25V	
2	6.512A	2.995A	2.992A	1.187A	109.797	00.1020/	1524	22.0	40.81°C	0.907	
2	12.120V	5.001V	3.307V	5.054V	123.114	89.183%	1524	33.8	45.04°C	230.25V	
_	10.636A	3.507A	3.510A	1.386A	164.924	01.0710/	1574	245	41.03°C	0.945	
3	12.112V	4.996V	3.302V	5.043V	181.094	91.071%	1571	34.5	46.15°C	230.24V	
	14.756A	4.007A	3.999A	0.986A	216.787	01.0760/	1.050	26.1	41.62°C	0.961	
4	12.105V	4.991V	3.298V	5.048V	235.699	91.976%	1659	36.1	47.06°C	230.25V	
_	18.545A	5.011A	5.007A	1.791A	274.788	01.0010/	1720		42.17°C	0.971	
5	12.096V	4.985V	3.293V	5.025V	299.003	91.901%	1730	37.4	48.14°C	230.24V	
_	22.335A	6.024A	6.022A	1.993A	329.774		1829 39.6		42.83°C	0.977	
6	12.088V	4.980V	3.288V	5.012V	359.484	91.735%		39.6	49.77°C	230.24V	
_	26.133A	7.031A	7.033A	2.196A	384.714		1838 39.8		43.31°C	0.981	
7	12.079V	4.975V	3.283V	5.002V	420.745	91.436%		39.8	50.55°C	230.24V	
	29.930A	8.051A	8.051A	2.401A	439.674				43.91°C	0.984	
8	12.071V	4.970V	3.278V	4.991V	482.881	91.052%	1838	39.8	51.36°C	230.24V	
	34.167A	8.558A	8.584A	2.406A	494.756				44.55°C	0.986	
9	12.063V	4.967V	3.273V	4.986V	545.674	90.669%	1838	39.8	52.90°C	230.24V	
	38.153A	9.074A	9.084A	3.018A	549.636			1838 39.8	45.01°C	0.987	
10	12.055V	4.962V	3.268V	4.967V	610.031	90.100%	1838		53.65°C	230.24V	
	42.739A	9.076A	9.095A	3.020A	604.544				46.57°C	0.987	
11	12.047V	4.958V	3.264V	4.961V	674.645	89.609%	1838	39.8	55.64°C	230.24V	
	0.101A	14.026A	14.005A	0.005A	117.455				42.88°C	0.924	
CL1	12.107V	4.991V	3.299V	5.069V	140.169	83.795%	83.795% 1838	1838 39.8	39.8	49.15°C	230.24V
0.0	42.972A	1.003A	1.003A	1.002A	531.862				44.93°C	0.986	
CL2	12.067V	4.975V	3.282V	5.026V	582.604	91.290%	1847	39.9	53.58°C	230.23V	

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20-80	W 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	0.491A	0.481A	0.196A	19.677	60.4350/	5% 1287 30.1	20.1	0.542	
1	12.127V	5.010V	3.316V	5.085V	28.757	68.425%		30.1	230.25V	
2	2.432A	0.991A	0.994A	0.392A	39.745	00.0700/	1330	30.7	0.718	
2	12.128V	5.009V	3.315V	5.078V	49.633	80.078%			230.25V	
2	3.663A	1.487A	1.508A	0.591A	59.868	04.7520/	1415	21.2	0.811	
3	12.130V	5.007V	3.312V	5.071V	70.638	84.753%	1415	31.3	230.25V	
4	4.883A	1.994A	1.991A	0.786A	79.762			1454	22.4	0.864
4	12.126V	5.005V	3.310V	5.065V	91.455	87.214%	1454	32.4	230.24V	

RIPPLE MEASUREMENTS							
Test	12V	5V	3.3V	5VSB	Pass/Fail		
10% Load	34.4 mV	5.1 mV	10.2 mV	13.2 mV	Pass		
20% Load	31.8 mV	4.9 mV	10.8 mV	13.7 mV	Pass		
30% Load	26.7 mV	5.0 mV	10.3 mV	14.6 mV	Pass		
40% Load	26.0 mV	4.6 mV	10.9 mV	14.6 mV	Pass		
50% Load	25.8 mV	4.7 mV	10.6 mV	16.4 mV	Pass		
60% Load	28.7 mV	5.7 mV	12.0 mV	17.6 mV	Pass		
70% Load	30.6 mV	5.7 mV	12.7 mV	19.9 mV	Pass		
80% Load	32.8 mV	5.8 mV	12.9 mV	22.3 mV	Pass		
90% Load	36.8 mV	6.3 mV	14.4 mV	21.9 mV	Pass		
100% Load	44.0 mV	6.8 mV	16.2 mV	29.9 mV	Pass		
110% Load	43.5 mV	6.9 mV	17.2 mV	28.5 mV	Pass		
Crossload 1	30.3 mV	7.0 mV	14.3 mV	40.9 mV	Pass		
Crossload 2	41.5 mV	6.7 mV	16.5 mV	19.7 mV	Pass		

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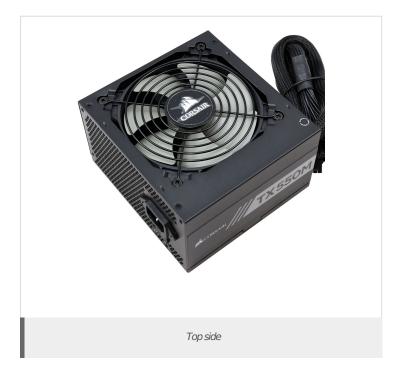
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HOLD-UP TIME & POWER OK SIGNAL (230V)			
Hold-Up Time (ms)	12.10		
AC Loss to PWR_OK Hold Up Time (ms)	9.48		
PWR_OK Inactive to DC Loss Delay (ms)	2.62		







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