

Lab ID#: 88
Receipt Date: Oct 22, 2018
Test Date: Oct 31, 2018

Report:

Report Date: Nov 4, 2018

DUT INFORMATION

Brand	Corsair
Manufacturer (OEM)	Great Wall
Series	TXM
Model Number	
Serial Number	17084854000040960743
DUT Notes	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
Type	ATX12V
Cooling	120mm Rifle Bearing Fan (NR120L)
Semi-Passive Operation	X
Cable Design	Semi Modular

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	25	25	70.8	3	0.8
	Watts	130		849.6	15	9.6
Total Max. Power (W)		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 PCIe (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 (+-2°C / +- 3.6°F)
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓

115V

Average Efficiency	88.736%
Efficiency With 10W (≤500W) or 2% (>500W)	0.000
Average Efficiency 5VSB	80.944%
Standby Power Consumption (W)	0.0388675
Average PF	0.987
Avg Noise Output	27.95 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	A-

230V

Average Efficiency	91.253%
Average Efficiency 5VSB	80.427%
Standby Power Consumption (W)	0.0583520
Average PF	0.951
Avg Noise Output	29.01 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A-

TEST EQUIPMENT

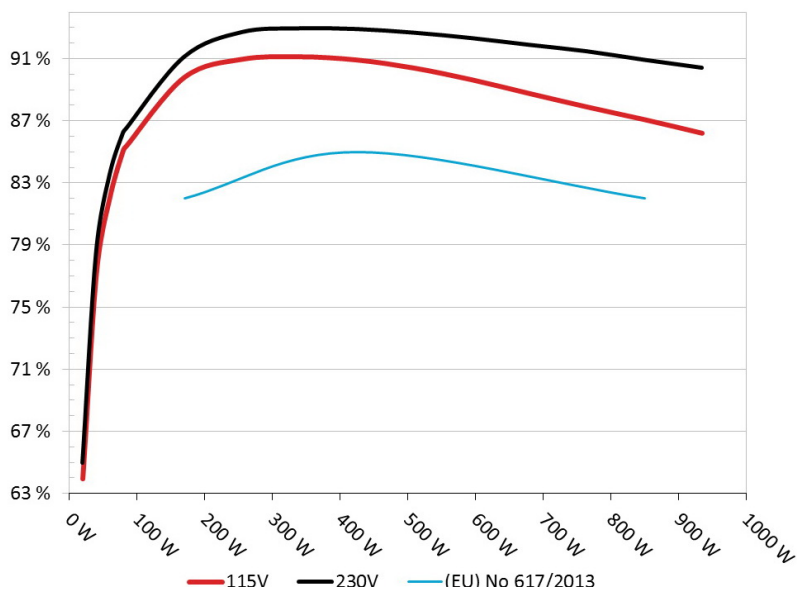
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EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

Efficiency: Corsair TX850M

Ambient: 38°C - 46°C (100.4°F - 114.8°F)



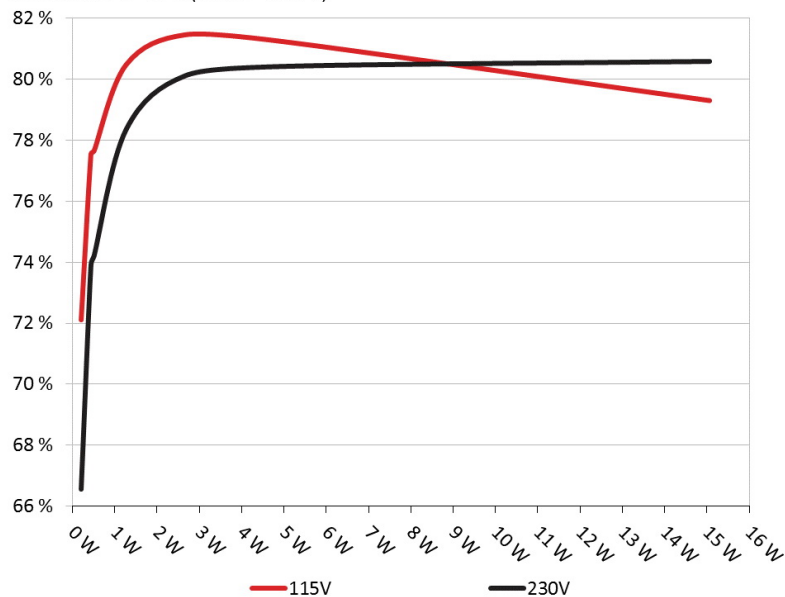
INFO

The PSU's efficiency under high ambient temperatures with 115V and 230V input. For this graph the results of the 10-110% load regulation table are used

5VSB EFFICIENCY

5VSB Efficiency: Corsair TX850M

Ambient: 34°C - 36°C (93.2°F - 96.8°F)



INFO

This graph depicts the efficiency levels of the 5VSB rail with 115V and 230V input

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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	72.109%	0.030
	5.064V	0.294		115.52V
2	0.087A	0.442	77.544%	0.056
	5.064V	0.570		115.05V
3	0.532A	2.690	81.466%	0.244
	5.057V	3.302		115.06V
4	3.001A	15.067	79.304%	0.444
	5.020V	18.999		115.04V

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)

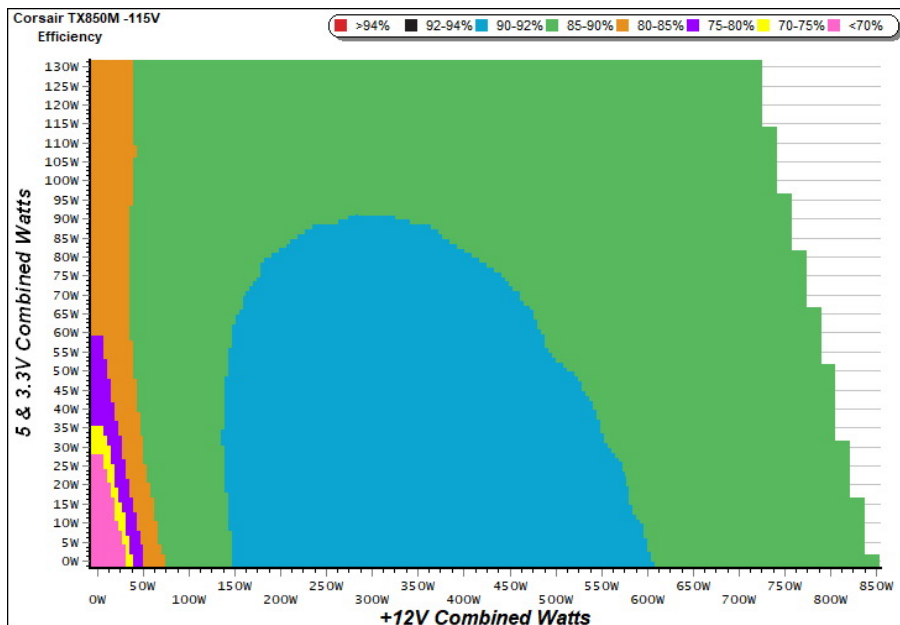
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.227	65.043%	0.009
	5.044V	0.349		230.92V
2	0.090A	0.454	72.408%	0.016
	5.044V	0.627		230.93V
3	0.550A	2.771	80.179%	0.086
	5.037V	3.456		230.93V
4	1.000A	5.032	80.512%	0.146
	5.031V	6.250		230.93V
5	1.500A	7.537	81.104%	0.199
	5.024V	9.293		230.92V
6	2.500A	12.526	81.180%	0.275
	5.010V	15.430		230.92V

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115V

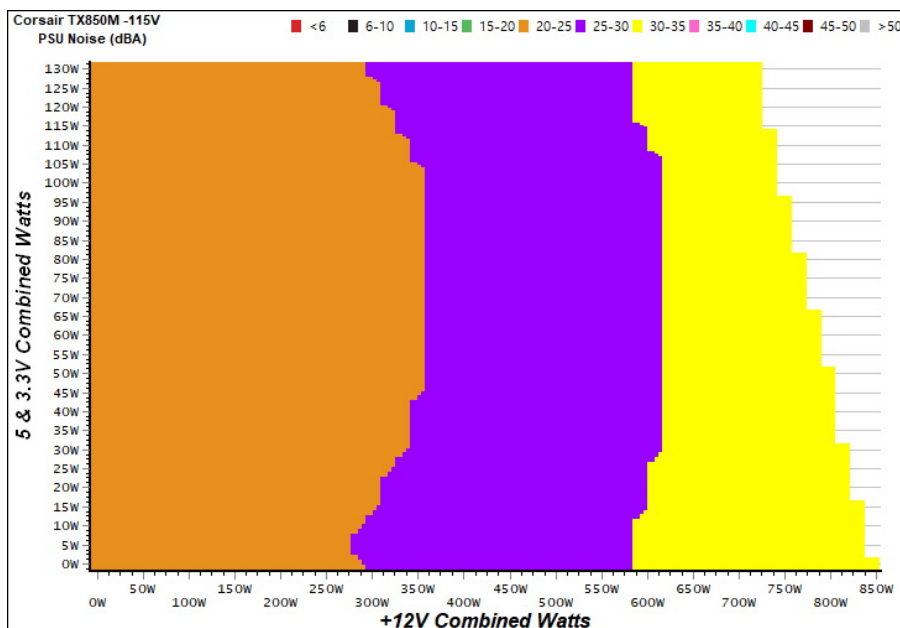
EFFICIENCY GRAPH 115V



INFO

This graph depicts the PSU's efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

NOISE GRAPH 115V



INFO

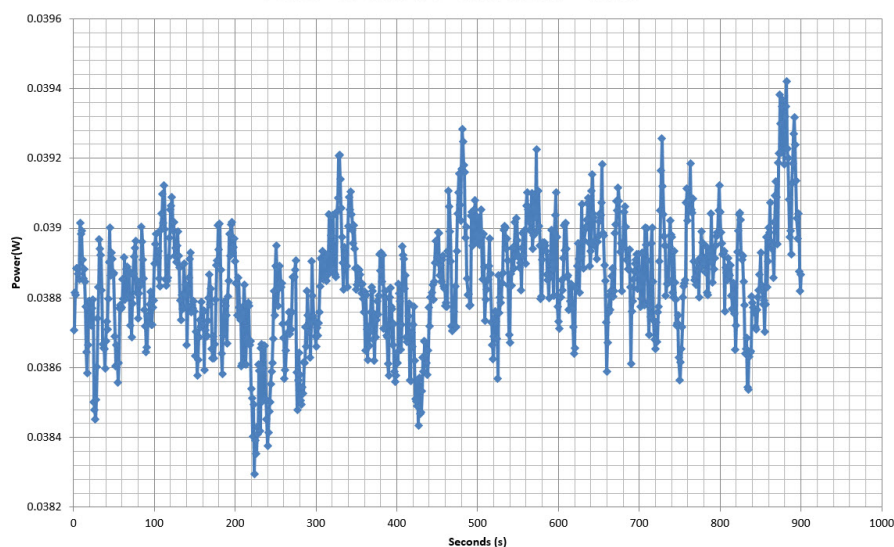
The PSU's noise in its entire operational range and under 30-32 °C (+2 °C) ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

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VAMPIRE POWER -115V

Power - 171002476 - 07/04/2017 - 09:39



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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COMMISSION REGULATION (EU) NO 617/2013 TESTING 115V

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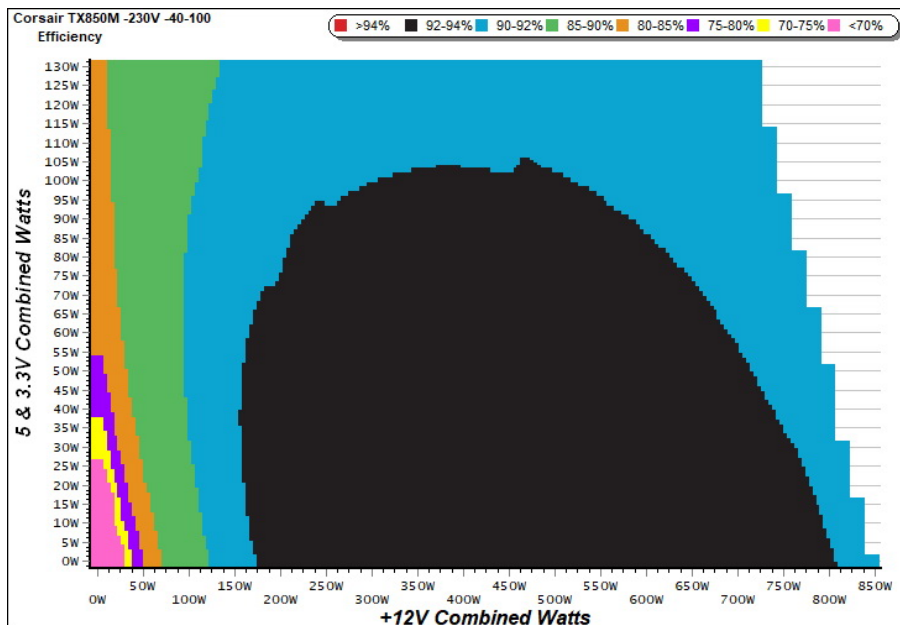
230V

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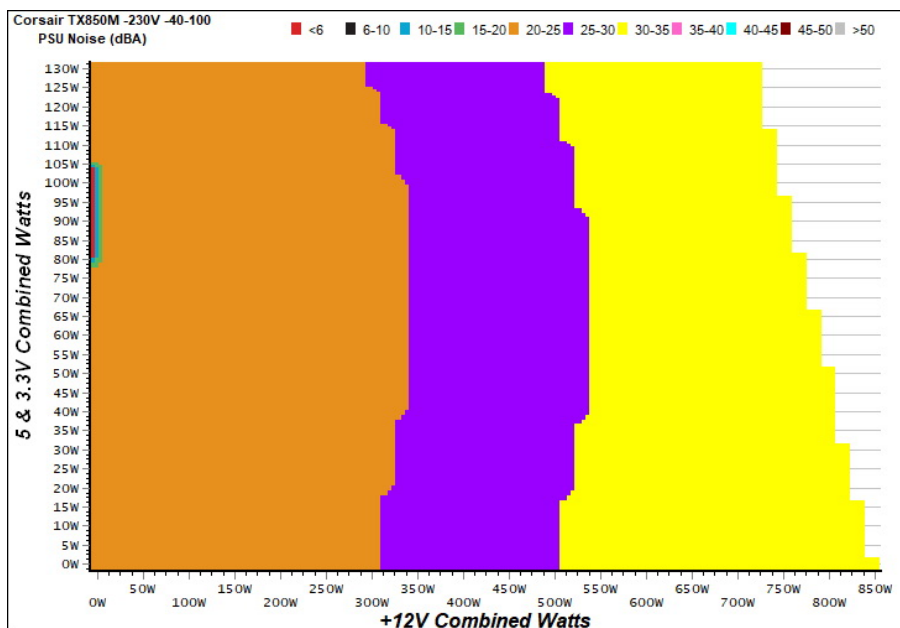
EFFICIENCY GRAPH 230V



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NOISE GRAPH 230V



INFO

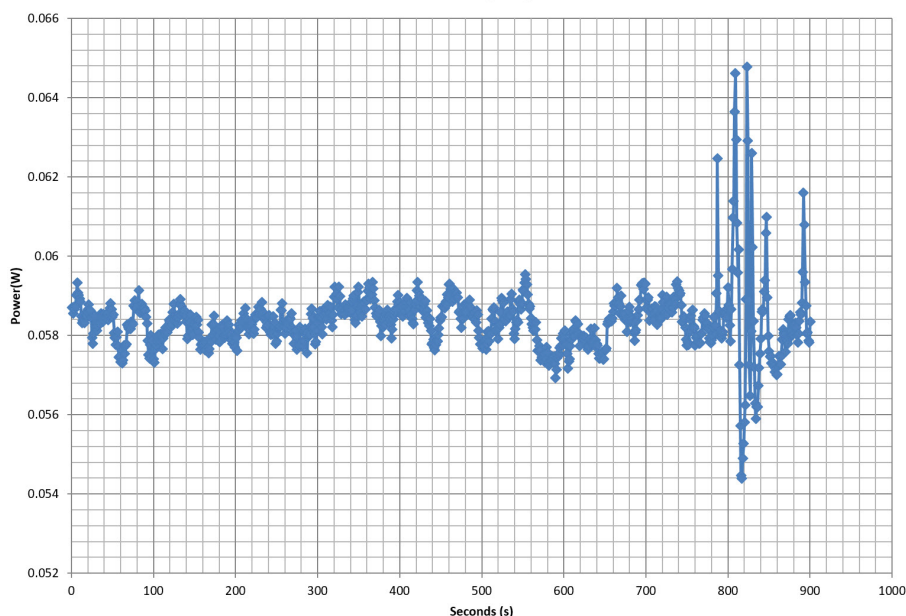
The PSU's noise in its entire operational range and under 30-32 °C (+2 °C) ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

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VAMPIRE POWER -230V

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COMMISSION REGULATION (EU) NO 617/2013 TESTING 230V

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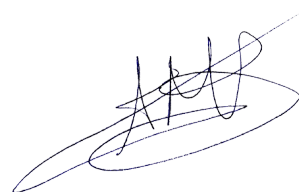


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Power specifications table

CERTIFICATIONS 115V

Aris Mpitsiopoulos
Lab Director

CERTIFICATIONS 230V



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