

Anex

Corsair TX750

Lab ID#: CR75002424
 Receipt Date: Mar 28, 2024
 Test Date: Apr 23, 2024

Report: 24PS2424A
 Report Date: Apr 24, 2024

DUT INFORMATION	
Brand	Corsair
Manufacturer (OEM)	Great Wall
Series	TX
Model Number	RPS0207
Serial Number	A7VFD34832W1FA
DUT Notes	CP-9020288, Not Properly Configured OCP/OPP

DUT SPECIFICATIONS	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	10-6
Rated Frequency (Hz)	47-63
Rated Power (W)	750
Type	ATX12V
Cooling	135mm Fluid Dynamic Bearing Fan (HA13525M12F-Z)
Semi-Passive Operation	✓
Cable Design	Fully Modular

TEST EQUIPMENT	
Electronic Loads	Chroma 63601-5 x2 Chroma 63600-2 63640-80-80 x10 63610-80-20
AC Sources	Chroma 6530, APM SP300VAC4000W-P
Power Analyzers	RS HMC8015, N4L PPA1530, N4L PPA5530
Oscilloscopes	Picoscope 4444, Rigol DS7014, Siglent SDS2104X PLUS
Sound Analyzer	Bruel & Kjaer 2270 G4
Microphone	Bruel & Kjaer Type 4955-A
Temperature Logger	Picoscope TC-08
Tachometer	UNI-T UT372
Multimeters	Keysight 34465A, Keithley 2015 - THD
UPS	FSP Champ Tower 3kVA, CyberPower OLS3000E 3kVA
Isolation Transformer	4kVA

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RESULTS

Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓
ALPM (Alternative Low Power Mode) compatible	✓

115V

Average Efficiency	88.719%
Efficiency With 10W (≤500W) or 2% (>500W)	62.457
Average Efficiency 5VSB	80.574%
Standby Power Consumption (W)	0.0511000
Average PF	0.988
Avg Noise Output	20.63 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	A

230V

Average Efficiency	90.929%
Average Efficiency 5VSB	80.262%
Standby Power Consumption (W)	0.1069000
Average PF	0.958
Avg Noise Output	19.72 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	A+

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	25	25	62	3	0.8
	Watts	130		744	15	9.6
Total Max. Power (W)		750				

HOLD-UP TIME & POWER OK SIGNAL (230V)

Hold-Up Time (ms)	21.5
AC Loss to PWR_OK Hold Up Time (ms)	18
PWR_OK Inactive to DC Loss Delay (ms)	3.5

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CABLES AND CONNECTORS

Modular Cables

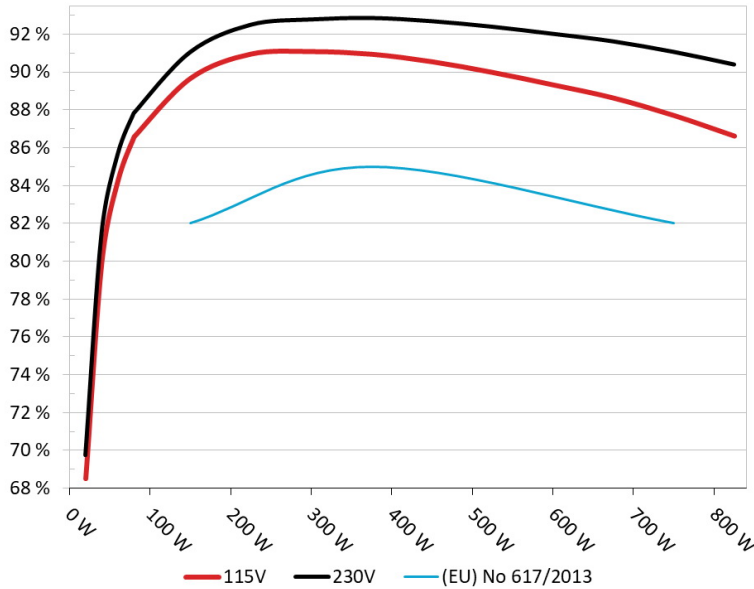
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (605mm)	1	1	18-20AWG	No
4+4 pin EPS12V (650mm)	2	2	18AWG	No
6+2 pin PCIe (675mm)	1	1	18AWG	No
2 x 6+2 pin PCIe (675mm)	1	2	18AWG	No
12+4 pin PCIe (675mm) (600W)	1	1	16-24AWG	No
SATA (105mm+115mm+115mm+115mm)	1	4	18AWG	No
SATA (100mm+115mm+115mm+115mm)	1	4	18AWG	No
4-pin Molex (100mm+115mm+115mm+115mm)	1	4	18AWG	No
AC Power Cord (1375mm) - C13 coupler	1	1	18AWG	-

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EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

Efficiency: Corsair TX750
Ambient: 37°C - 47°C (98.6°F - 116.6°F)

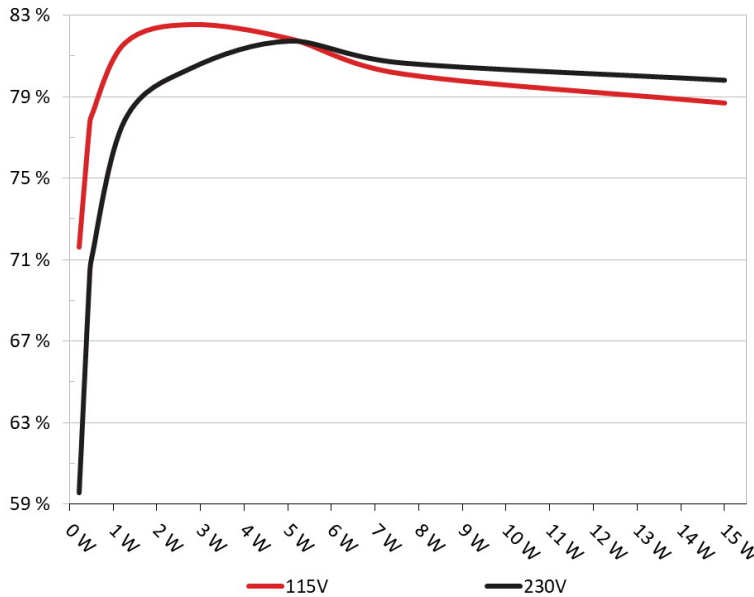


INFO

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 TX750
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	0.045A	0.23W	71.628%	0.029
	5.113V	0.321W		115.15V
2	0.09A	0.46W	77.437%	0.054
	5.111V	0.594W		115.15V
3	0.55A	2.802W	82.533%	0.247
	5.093V	3.395W		115.17V
4	1A	5.077W	81.827%	0.348
	5.076V	6.204W		115.16V
5	1.5A	7.588W	80.126%	0.405
	5.057V	9.47W		115.16V
6	3A	14.999W	78.688%	0.477
	4.999V	19.062W		115.15V

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.23W	59.561%	0.011
	5.113V	0.387W		230.38V
2	0.09A	0.46W	69.798%	0.018
	5.111V	0.659W		230.37V
3	0.55A	2.802W	80.416%	0.092
	5.092V	3.485W		230.39V
4	1A	5.077W	81.739%	0.155
	5.076V	6.213W		230.39V
5	1.5A	7.587W	80.673%	0.214
	5.056V	9.402W		230.4V
6	3.001A	15W	79.817%	0.321
	4.999V	18.791W		230.4V

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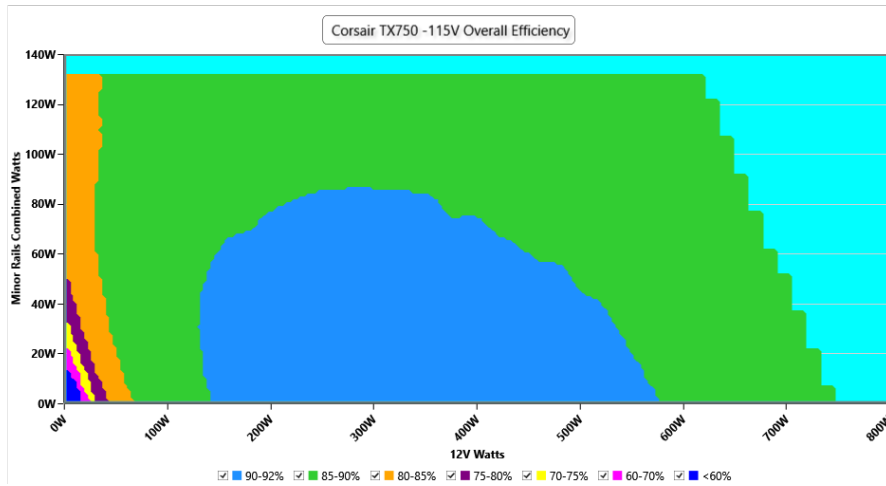
115V

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PAGE 6/16

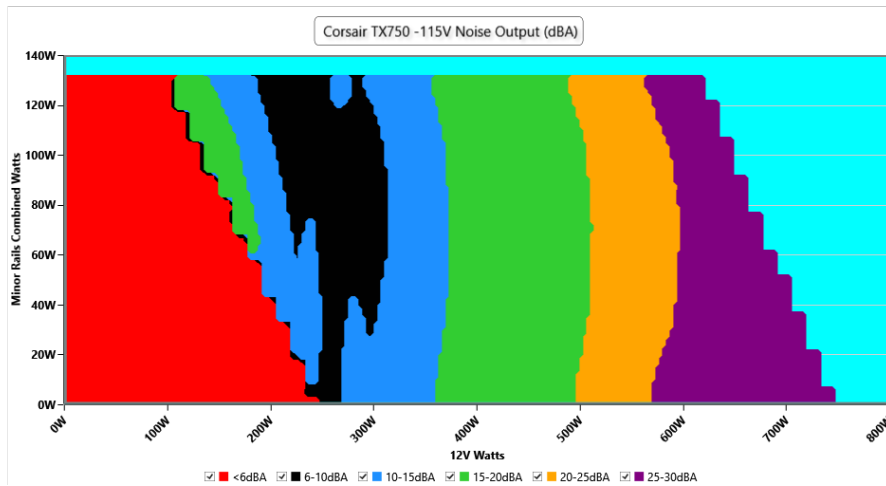
EFFICIENCY GRAPH 115V



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 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

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.17 V	115.14 V	113.85 V	115.18 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.92 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.415	1.415	1.340	1.416	1.490	PASS
Mains Voltage THD:	0.13 %	0.11 %	N/A	0.15 %	2.00 %	PASS
Real Power:	0.051 W	0.045 W	N/A	0.056 W	N/A	N/A
Apparent Power:	10.856 W	10.851 W	N/A	10.860 W	N/A	N/A
Power Factor:	0.005	N/A	N/A	N/A	N/A	N/A

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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10-110% LOAD TESTS 115V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
10%	4.439A	1.995A	1.995A	0.985A	75.009	85.43%	0	<6.0	44.54°C	0.974
	12.030V	5.013V	3.309V	5.075V	87.8				40.29°C	115.14V
20%	9.897A	2.994A	2.995A	1.186A	149.978	89.654%	0	<6.0	45.23°C	0.976
	12.031V	5.012V	3.306V	5.061V	167.286				40.69°C	115.13V
30%	15.712A	3.493A	3.496A	1.387A	224.992	90.938%	0	<6.0	46.18°C	0.982
	12.024V	5.012V	3.304V	5.048V	247.416				41.12°C	115.1V
40%	21.546A	3.994A	3.999A	1.59A	300.09	91.067%	619	18.4	41.94°C	0.987
	12.015V	5.009V	3.302V	5.033V	329.525				47.49°C	115.08V
50%	27.007A	4.995A	5.003A	1.794A	374.755	90.928%	644	19.6	42.06°C	0.99
	12.006V	5.007V	3.299V	5.018V	412.143				48.13°C	115.06V
60%	32.494A	5.995A	6.008A	2A	449.695	90.531%	719	22.9	42.94°C	0.993
	11.998V	5.006V	3.296V	5.003V	496.734				49.47°C	115.04V
70%	37.986A	6.995A	7.015A	2.206A	524.639	89.969%	804	26.5	43.03°C	0.994
	11.992V	5.005V	3.294V	4.987V	583.138				50.03°C	115.02V
80%	43.547A	7.995A	8.022A	2.312A	599.812	89.31%	890	29.6	43.53°C	0.995
	11.985V	5.004V	3.291V	4.976V	671.605				51.62°C	115V
90%	49.440A	8.495A	8.512A	2.417A	674.779	88.614%	990	33.2	44.31°C	0.996
	11.979V	5.003V	3.289V	4.966V	761.482				53.39°C	114.96V
100%	55.141A	8.996A	9.035A	3.04A	749.963	87.69%	1110	35.9	45.23°C	0.996
	11.974V	5.003V	3.287V	4.936V	855.244				55.42°C	114.93V
110%	60.719A	9.996A	10.137A	3.045A	824.976	86.603%	1242	39.3	46.77°C	0.997
	11.968V	5.002V	3.285V	4.927V	952.591				57.68°C	114.91V
CL1	0.116A	15.614A	15.643A	0A	131.297	82.728%	0	<6.0	46.91°C	0.978
	12.032V	5.015V	3.298V	5.094V	158.708				41.17°C	115.11V
CL2	0.116A	24.902A	0A	0A	126.387	81.119%	0	<6.0	49.04°C	0.978
	12.039V	5.019V	3.313V	5.102V	155.805				42.01°C	115.11V
CL3	0.116A	0A	25.063A	0A	83.887	74.389%	0	<6.0	51.15°C	0.979
	12.038V	5.022V	3.291V	5.097V	112.769				41.37°C	115.12V
CL4	62.539A	0A	0A	0A	749.68	88.498%	1110	35.9	45.57°C	0.996
	11.987V	5.012V	3.298V	5.056V	847.111				56.46°C	114.93V

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20-80W LOAD TESTS 115V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
20W	1.234A	0.499A	0.498A	0.196A	20.004	68.499%	0	<6.0	39.68°C	0.893
	12.044V	5.013V	3.311V	5.107V	29.203				36.59°C	115.15V
40W	2.718A	0.698A	0.698A	0.294A	40.003	79.962%	0	<6.0	40.83°C	0.945
	12.029V	5.013V	3.311V	5.102V	50.027				37.53°C	115.15V
60W	4.201A	0.898A	0.897A	0.393A	60.003	84.249%	0	<6.0	42.09°C	0.959
	12.028V	5.013V	3.31V	5.097V	71.222				38.44°C	115.15V
80W	5.682A	1.097A	1.097A	0.491A	79.97	86.562%	0	<6.0	43.13°C	0.975
	12.028V	5.014V	3.31V	5.092V	92.386				39.26°C	115.14V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	8.5 mV	5.7 mV	4.1 mV	5.5 mV	Pass
20% Load	19.1 mV	6.1 mV	4.2 mV	6.4 mV	Pass
30% Load	11.1 mV	6.0 mV	4.3 mV	6.6 mV	Pass
40% Load	10.8 mV	6.2 mV	4.4 mV	7.0 mV	Pass
50% Load	11.8 mV	8.4 mV	5.1 mV	7.3 mV	Pass
60% Load	12.1 mV	7.4 mV	4.7 mV	7.6 mV	Pass
70% Load	13.0 mV	7.3 mV	4.8 mV	8.3 mV	Pass
80% Load	13.6 mV	7.8 mV	7.8 mV	9.4 mV	Pass
90% Load	14.5 mV	7.6 mV	7.8 mV	9.2 mV	Pass
100% Load	20.5 mV	8.7 mV	8.8 mV	11.6 mV	Pass
110% Load	22.1 mV	9.5 mV	8.9 mV	12.1 mV	Pass
Crossload 1	25.5 mV	7.7 mV	9.4 mV	5.7 mV	Pass
Crossload 2	19.0 mV	6.4 mV	4.0 mV	5.3 mV	Pass
Crossload 3	13.5 mV	6.1 mV	10.2 mV	5.4 mV	Pass
Crossload 4	20.8 mV	8.2 mV	5.3 mV	8.2 mV	Pass

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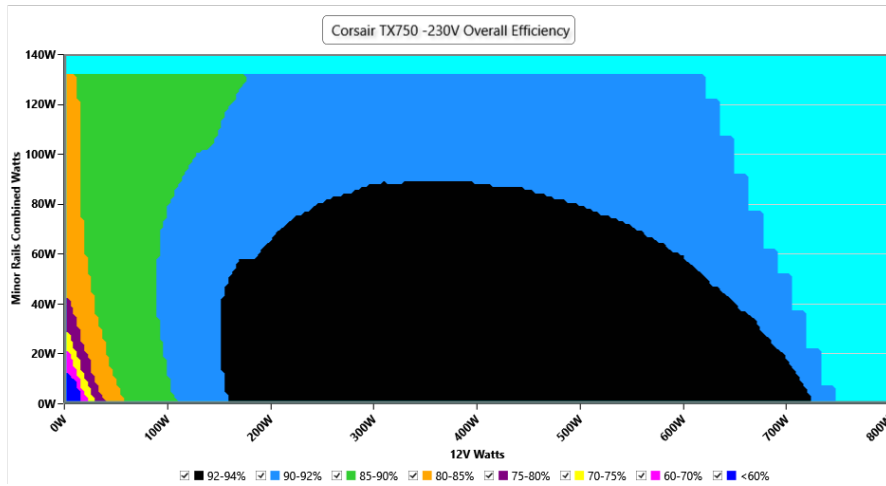
230V

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PAGE 11/16

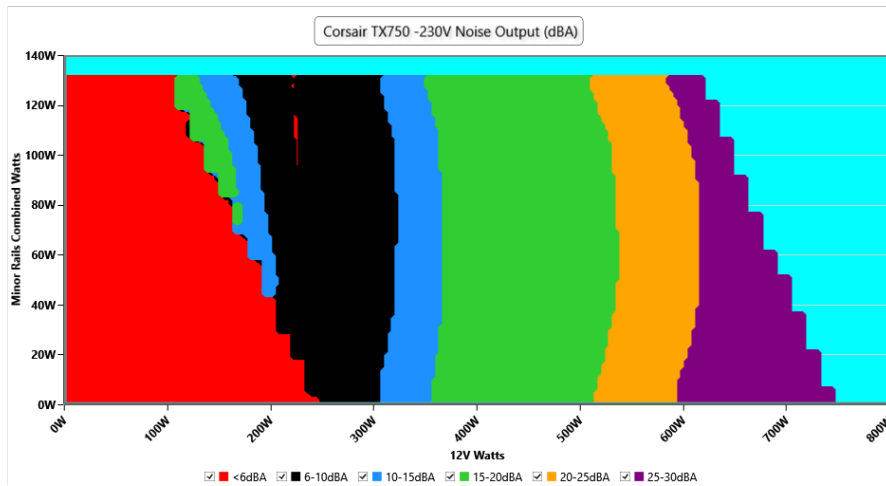
EFFICIENCY GRAPH 230V



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 230V



INFO

The PSU's noise in its entire operational range and under 30-32 °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

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.38 V	230.36 V	227.70 V	230.41 V	232.30 V	PASS
Mains Frequency:	50.00 Hz	50.00 Hz	49.50 Hz	50.00 Hz	50.50 Hz	PASS
Mains Voltage CF:	1.415	1.415	1.340	1.415	1.490	PASS
Mains Voltage THD:	0.14 %	0.13 %	N/A	0.16 %	2.00 %	PASS
Real Power:	0.107 W	0.089 W	N/A	0.135 W	N/A	N/A
Apparent Power:	36.265 W	36.253 W	N/A	36.275 W	N/A	N/A
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A

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10-110% LOAD TESTS 230V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
10%	4.438A	1.995A	1.994A	0.986A	75.007	86.755%	0	<6.0	44.45°C	0.844
	12.032V	5.015V	3.31V	5.075V	86.457				40.23°C	230.38V
20%	9.894A	2.993A	2.994A	1.186A	149.964	91.07%	0	<6.0	45.35°C	0.925
	12.033V	5.014V	3.307V	5.061V	164.671				40.86°C	230.37V
30%	15.708A	3.492A	3.495A	1.387A	224.965	92.515%	0	<6.0	46.28°C	0.951
	12.026V	5.013V	3.305V	5.047V	243.166				41.22°C	230.35V
40%	21.542A	3.993A	3.998A	1.59A	300.048	92.796%	620	18.4	41.93°C	0.965
	12.016V	5.01V	3.302V	5.032V	323.342				47.5°C	230.34V
50%	26.990A	4.993A	5.001A	1.794A	374.577	92.872%	644	19.6	42.23°C	0.971
	12.007V	5.008V	3.299V	5.018V	403.327				48.27°C	230.32V
60%	32.474A	5.993A	6.006A	1.999A	449.497	92.705%	708	22.7	42.73°C	0.976
	12.000V	5.007V	3.297V	5.003V	484.872				49.36°C	230.31V
70%	37.964A	6.993A	7.012A	2.206A	524.428	92.413%	799	26.4	43.23°C	0.981
	11.993V	5.006V	3.294V	4.988V	567.487				50.32°C	230.3V
80%	43.525A	7.992A	8.019A	2.311A	599.629	92.038%	894	29.7	43.95°C	0.983
	11.987V	5.005V	3.292V	4.976V	651.505				52.08°C	230.29V
90%	49.426A	8.493A	8.51A	2.417A	674.662	91.637%	997	33.4	44.27°C	0.985
	11.981V	5.004V	3.29V	4.965V	736.231				53.33°C	230.27V
100%	55.131A	8.994A	9.033A	3.04A	749.88	91.084%	1114	36.0	45.11°C	0.987
	11.975V	5.003V	3.288V	4.935V	823.281				55.21°C	230.26V
110%	60.711A	9.995A	10.135A	3.045A	824.913	90.416%	1245	39.4	46.68°C	0.988
	11.968V	5.002V	3.285V	4.926V	912.357				57.55°C	230.25V
CL1	0.116A	15.611A	15.641A	0A	131.291	84.116%	0	<6.0	45.86°C	0.924
	12.032V	5.015V	3.299V	5.094V	156.088				40.16°C	230.34V
CL2	0.116A	24.901A	0A	0A	126.385	82.447%	0	<6.0	48.64°C	0.922
	12.038V	5.02V	3.313V	5.101V	153.296				41.33°C	230.34V
CL3	0.116A	0A	25.06A	0A	83.887	75.627%	0	<6.0	50.6°C	0.888
	12.037V	5.022V	3.292V	5.096V	110.921				40.87°C	230.35V
CL4	62.544A	0A	0A	0A	749.687	91.865%	1108	35.8	45.39°C	0.987
	11.986V	5.011V	3.298V	5.056V	816.075				55.89°C	230.26V

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20-80W LOAD TESTS 230V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
20W	1.232A	0.499A	0.498A	0.196A	19.998	69.776%	0	<6.0	40.03°C	0.547
	12.046V	5.013V	3.311V	5.108V	28.659				36.91°C	230.35V
40W	2.716A	0.698A	0.698A	0.294A	39.996	81.482%	0	<6.0	40.33°C	0.715
	12.031V	5.014V	3.311V	5.103V	49.086				37.01°C	230.34V
60W	4.200A	0.898A	0.897A	0.392A	59.995	85.67%	0	<6.0	41.95°C	0.8
	12.030V	5.014V	3.311V	5.098V	70.03				38.41°C	230.35V
80W	5.680A	1.097A	1.096A	0.491A	79.962	87.843%	0	<6.0	42.79°C	0.853
	12.031V	5.015V	3.31V	5.093V	91.039				39.02°C	230.36V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	8.0 mV	5.5 mV	4.3 mV	5.3 mV	Pass
20% Load	20.6 mV	5.7 mV	4.4 mV	6.7 mV	Pass
30% Load	11.4 mV	6.2 mV	4.5 mV	6.7 mV	Pass
40% Load	11.2 mV	6.3 mV	4.4 mV	7.0 mV	Pass
50% Load	11.1 mV	9.3 mV	6.2 mV	7.0 mV	Pass
60% Load	11.8 mV	8.1 mV	4.8 mV	7.5 mV	Pass
70% Load	12.3 mV	7.0 mV	4.9 mV	8.4 mV	Pass
80% Load	13.6 mV	7.6 mV	7.7 mV	9.3 mV	Pass
90% Load	14.0 mV	7.8 mV	7.8 mV	9.6 mV	Pass
100% Load	20.4 mV	9.7 mV	8.6 mV	11.5 mV	Pass
110% Load	22.3 mV	9.3 mV	9.8 mV	12.2 mV	Pass
Crossload 1	24.7 mV	7.6 mV	9.0 mV	5.7 mV	Pass
Crossload 2	20.0 mV	6.3 mV	3.8 mV	5.6 mV	Pass
Crossload 3	14.0 mV	6.5 mV	10.2 mV	5.1 mV	Pass
Crossload 4	20.9 mV	8.7 mV	5.5 mV	8.4 mV	Pass

All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

Anex

Corsair TX750

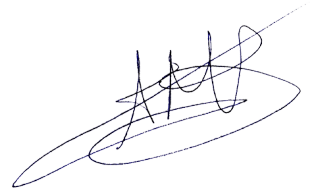


Top side



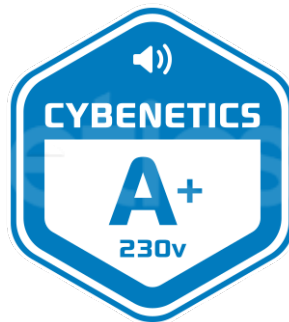
Power specifications label

CERTIFICATIONS 115V

Aristeidis Bitziopoulos
Lab Director

CERTIFICATIONS 230V



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