

Anex Corsair TX1000

Lab ID#: CR10002418

Receipt Date: Mar 28, 2024

Test Date: Apr 15, 2024

Report: 24PS2418A

Report Date: Apr 16, 2024

DUT INFORMATION				
Brand	Corsair			
Manufacturer (OEM)	Great Wall			
Series	TX			
Model Number	RPS0209			
Serial Number	A7VHD34540GCE0			
DUT Notes	CP-9020290, Not Properly Configured OCP/OPP			

DUT SPECIFICATIONS						
Rated Voltage (Vrms)	100-240					
Rated Current (Arms)	15-8					
Rated Frequency (Hz)	47-63					
Rated Power (W)	1000					
Туре	ATX12V					
Cooling	130mm Fluid Dynamic Bearing (HA13525M12F-Z 12VDC)					
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	✓
ATX v3.1 PSU Power Excursion	✓

115V	
Average Efficiency	87.641%
Efficiency With 10W (≤500W) or 2% (>500W)	63.836
Average Efficiency 5VSB	80.771%
Standby Power Consumption (W)	0.0513000
Average PF	0.990
Avg Noise Output	31.97 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard++

230V	
Average Efficiency	90.273%
Average Efficiency 5VSB	80.415%
Standby Power Consumption (W)	0.1103000
Average PF	0.965
Avg Noise Output	32.00 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard++

POWER SPECIFICATIONS						
Rail		3.3V	5V	12V	5VSB	-12V
Mary Darrier	Amps	25	25	83.3	3	0.8
Max. Power	Watts	130		1000	15	9.6
Total Max. Power (W)		1000				

HOLD-UP TIME & POWER OK SIGNAL (230V)			
Hold-Up Time (ms)	23		
AC Loss to PWR_OK Hold Up Time (ms)	19.1		
PWR_OK Inactive to DC Loss Delay (ms)	3.9		

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Modular Cables				
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (605mm)	1	1	18AWG	No
4+4 pin EPS12V (650mm)	2	2	18AWG	No
2 x 6+2 pin PCle (675mm)	1	2	18AWG	No
6+2 pin PCle (675mm)	2	2	18AWG	No
12+4 pin PCle (675mm) (600W)	1	1	16-24AWG	No
SATA (100mm+115mm+115mm+115mm)	2	8	18AWG	No
4-pin Molex (100mm+115mm+115mm+115mm)	1	4	18AWG	No
AC Power Cord (1400mm) - C13 coupler	1	1	18AWG	No

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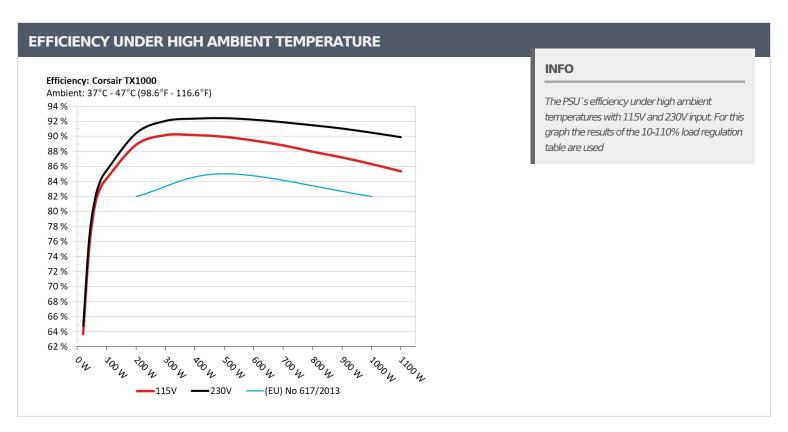
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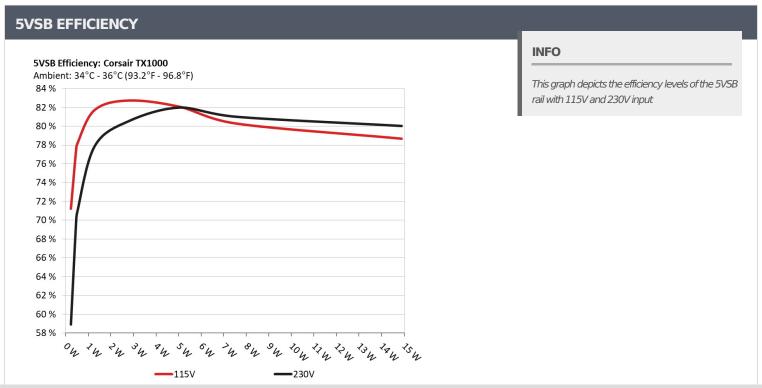
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)						
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts		
1	0.045A	0.23W	71 2200/	0.03		
1	5.107V	0.323W	71.239%	115.18V		
2	0.09A	0.46W	77 5020/	0.055		
2	5.105V	0.594W	77.503%	115.18V		
_	0.55A	2.796W	00 7050/	0.249		
3	5.082V	3.38W	82.725%	115.18V		
	1A	5.063W	00.0560/	0.351		
4	5.061V	6.171W	82.056%	115.18V		
_	1.5A	7.557W		0.408		
5	5.037V	9.414W	80.279%	115.18V		
6	3.001A	14.889W		0.483		
	4.962V	18.923W	78.673%	115.17V		

5VSB EFFI	CIENCY -230V (ERF	P LOT 3/6 & CEC)		
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.23W	E0 0320/	0.011
1	5.107V	0.392W	58.932%	230.43V
•	0.09A	0.46W	CO 03.40/	0.018
2	5.105V	0.659W	69.834%	230.43V
	0.55A	2.796W		0.093
3	5.082V	3.473W	80.53%	230.39V
	1A	5.062W	07.070/	0.155
4	5.061V	6.177W	81.97%	230.38V
_	1.5A	7.557W		0.215
5	5.037V	9.327W	80.989%	230.38V
	ЗА	14.889W	00.0120/	0.321
6	4.962V	18.61W	80.013%	230.38V

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115V

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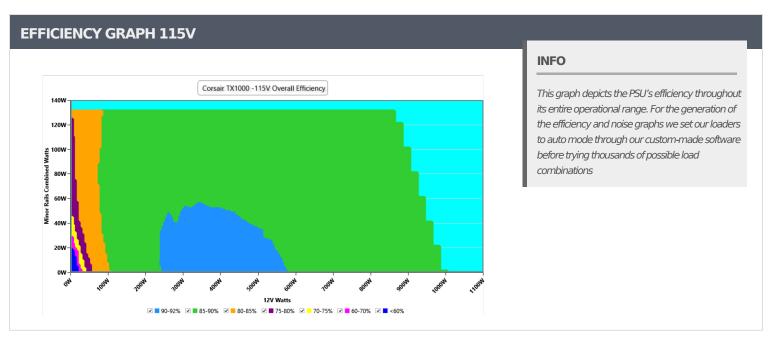
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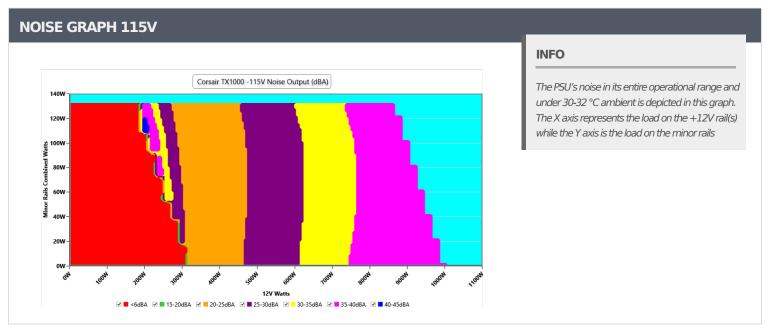
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VAMPIRE POWER -115V							
Detailed Results							
	Average	Min	Limit Min	Max	Limit Max	Result	
Mains Voltage RMS:	115.19 V	115.17 V	113.85 V	115.20 V	116.15 V	PASS	
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS	
Mains Voltage CF:	1.415	1.415	1.340	1.416	1.490	PASS	
Mains Voltage THD:	0.13%	0.10 %	N/A	0.16 %	2.00 %	PASS	
Real Power:	0.051 W	0.046 W	N/A	0.057 W	N/A	N/A	
Apparent Power:	10.725 W	10.721 W	N/A	10.729 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 1	10% LOA									
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100/	6.526A	1.985A	1.993A	0.992A	100.027	84.383%	0	-6.0	44.23°C	0.971
10%	12.016V	5.04V	3.311V	5.044V	118.54		0	<6.0	40.22°C	115.13
20%	14.084A	2.978A	2.995A	1.195A	199.988	88.883%	0	<6.0	45.05°C	0.977
2070	12.005V	5.038V	3.306V	5.021V	225	00.00370	0	<0.0	40.81°C	115.1V
30%	22.006A	3.477A	3.498A	1.399A	300.048	90.169%	0	<6.0	45.91°C	0.987
30%	11.996V	5.035V	3.302V	5.006V	332.766	90.109%		<0.0	41.23°C	115.08
400/	29.942A	3.977A	4.005A	1.605A	399.839	- 00 1750/	007	22.5	41.75°C	0.991
40%	11.977V	5.03V	3.296V	4.985V	443.401	90.175%	987	32.5	46.76°C	115.05
50%	37.533A	4.975A	5.014A	1.814A	499.564	89.947%	1059	34.3	42.46°C	0.994
30%	11.964V	5.027V	3.291V	4.962V	555.4	09.947%	1059	<u> </u>	47.97°C	115.02
600/	45.199A	5.973A	6.027A	2.001A	600.006	- 00 4420/	1165	37	42.73°C	0.996
60%	11.954V	5.024V	3.286V	4.941V	670.821	89.443%			48.75°C	114.99
70%	52.805A	6.973A	7.043A	2.238A	699.856	88.803%	1285	39.7	43.31°C	0.997
70%	11.945V	5.021V	3.281V	4.917V	788.098	00.00370	1205		50.33°C	114.96
80%	60.496A	7.972A	8.06A	2.349A	799.886	87.963%	1389	41.8	43.74°C	0.997
0070	11.934V	5.018V	3.275V	4.896V	909.349	07.90370	1309	41.0	51.75°C	114.94
90%	68.529A	8.475A	8.561A	2.466A	899.665	- 07 1000/	1503	116	44.76°C	0.998
90%	11.925V	5.016V	3.271V	4.867V	1031.738	87.199%	1505	44.6	53.77°C	114.91
100%	76.377A	8.978A	9.093A	3.12A	999.701	86.32%	1623	45.7	45.73°C	0.998
100%	11.915V	5.013V	3.266V	4.808V	1158.123	00.3270	1023	45.7	55.76°C	114.87
110%	84.169A	9.982A	10.213A	3.116A	1100.326	85.348%	1755	47.5	46.82°C	0.998
110%	11.905V	5.01V	3.26V	4.815V	1289.236	05.548%	1755	47.5	57.76°C	114.83
CL1	0.116A	15.557A	15.698A	0A	131.309	70 7700/	0	-60	46.92°C	0.974
CLI	12.024V	5.034V	3.287V	4.955V	164.573	79.779%	· · · · · · · · · · · · · · · · · · ·	<6.0	41.41°C	115.13
CL2	0.116A	24.871A	0A	0A	126.402	7 0 1000/	0	<6.0	48.3°C	0.973
CLZ	12.026V	5.026V	3.318V	5.081V	161.642	78.198%	· · · · · · · · · · · · · · · · · · ·	\0.0	41.28°C	115.13
CI 2	0.116A	0A	25.254A	0A	83.898	70.869%	0	<6.0	50.37°C	0.972
CL3	12.029V	5.05V	3.267V	5.077V	118.386	70.009%	U	<0.0	41.36°C	115.14
CL 4	83.853A	0A	0A	0A	1000.202	07.0170/	1620	4E 7	45.84°C	0.998
CL4	11.928V	5.03V	3.288V	5.001V	1149.419	87.017%	1620	45.7	56.78°C	114.88

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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
20144	1.236A	0.496A	0.498A	0.196A	20.006	62.6570/	0		39.74°C	0.89
20W	12.023V	5.042V	.042V 3.316V 5.097V 31.425	0	<6.0	36.69°C	115.15V			
40)44	2.724A	0.694A	0.697A	0.295A	40.005	74.0010/	_		40.85°C	0.948
40W	12.005V	5.042V	.042V 3.315V 5.09V 53.46 74.831% 0	U	<6.0	37.61°C	115.15V			
COM	4.206A	0.893A	0.896A	0.394A	60.004	00.0000/	•		42.31°C	0.966
60W	12.013V 5.042V 3.315V 5.083V 74.254	80.808%	U	0 <6.0	38.76°C	115.14V				
	5.688A	1.091A	1.095A	0.493A	79.971	02.22.40/	•		43.22°C	0.974
80W	12.015V	12.015V 5.042V 3.314V 5.076V 96.079 83.234% 0	U	<6.0	39.23°C	115.14V				

RIPPLE MEA	SUREMENTS 115V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	11.67mV	6.33mV	4.22mV	6.72mV	Pass
20% Load	13.91mV	6.12mV	4.38mV	6.93mV	Pass
30% Load	12.26mV	6.99mV	4.53mV	7.08mV	Pass
40% Load	11.91mV	6.74mV	4.63mV	8.15mV	Pass
50% Load	12.62mV	7.65mV	4.93mV	7.54mV	Pass
60% Load	14.04mV	7.50mV	5.14mV	7.95mV	Pass
70% Load	15.57mV	9.85mV	7.58mV	9.27mV	Pass
80% Load	16.54mV	10.46mV	8.75mV	12.07mV	Pass
90% Load	16.84mV	9.34mV	8.39mV	10.95mV	Pass
100% Load	22.94mV	10.33mV	8.69mV	13.13mV	Pass
110% Load	24.55mV	10.42mV	8.71mV	14.65mV	Pass
Crossload1	20.88mV	8.92mV	8.70mV	5.87mV	Pass
Crossload2	12.99mV	6.43mV	3.87mV	5.66mV	Pass
Crossload3	42.38mV	6.89mV	10.07mV	5.45mV	Pass
Crossload4	23.59mV	9.95mV	5.47mV	8.51mV	Pass

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230V

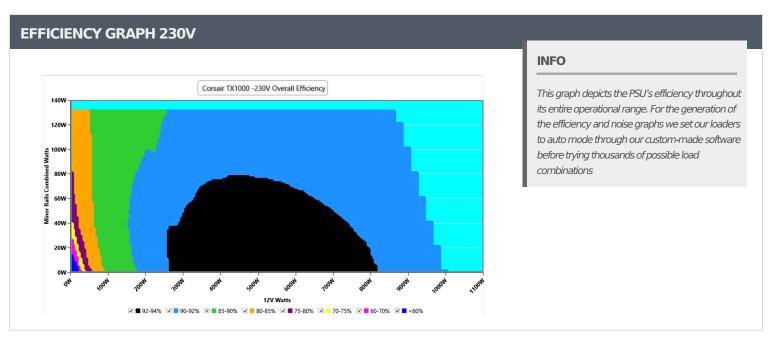
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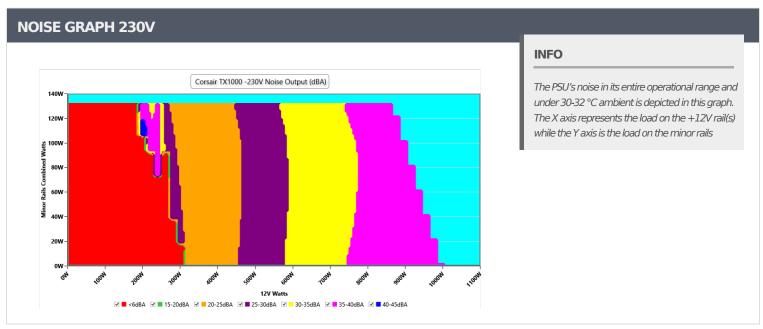
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VAMPIRE POWER -230V											
Detailed Results											
	Average	Min	Limit Min	Max	Limit Max	Result					
Mains Voltage RMS:	230.38 V	230.31 V	227.70 V	230.41 V	232.30 V	PASS					
Mains Frequency:	50.00 Hz	50.00 Hz	49.50 Hz	50.00 Hz	50.50 Hz	PASS					
Mains Voltage CF:	1.415	1.415	1.340	1.416	1.490	PASS					
Mains Voltage THD:	0.14 %	0.13 %	N/A	0.16 %	2.00 %	PASS					
Real Power:	0.110 W	0.094 W	N/A	0.135 W	N/A	N/A					
Apparent Power:	35.770 W	35.752 W	N/A	35.791 W	N/A	N/A					
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A					

INFO

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10-1	10% LOA	D 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
100/	6.524A	1.984A	1.993A	0.991A	100.038	05 5220/			44.38°C	0.881
10%	12.022V	5.043V	3.312V	5.045V	116.972	85.523%	0	<6.0	40.37°C	230.42V
200/	14.077A	2.977A	2.994A	1.194A	200.003	00 4460/	0	-6.0	44.96°C	0.945
20%	12.012V	5.04V	3.307V	5.025V	221.127	90.446%	0	<6.0	40.72°C	230.4V
200/	21.997A	3.475A	3.498A	1.399A	300.068	02_0720/	0	-6.O	45.62°C	0.962
30%	12.002V	5.038V	3.303V	5.005V	325.905	92.073%	0	<6.0	41.05°C	230.39\
100/	29.951A	3.976A	4.005A	1.607A	399.91	- 02.2740/	1024	22.7	41.78°C	0.973
40%	11.976V	5.032V	3.297V	4.98V	432.925	92.374%	1034	33.7	46.79°C	230.38\
E00/	37.536A	4.974A	5.014A	1.817A	499.629	- 02.4240/	1080	24.0	42.11°C	0.979
50%	11.965V	5.028V	3.292V	4.956V	540.527	92.434%	1080	34.9	47.62°C	230.37\
600/	45.203A	5.973A	6.027A	2.001A	600.055	- 02.2260/	1160	36.9	42.73°C	0.982
60%	11.954V	5.025V	3.286V	4.939V	650.56	92.236%			48.75°C	230.35\
700/	52.811A	6.972A	7.043A	2.239A	699.898	— 01 00E0/	1272	20.4	43.27°C	0.985
70%	11.944V	5.022V	3.281V	4.914V	761.629	91.895%	1273	39.4	50.28°C	230.34\
000/	60.501A	7.972A	8.061A	2.348A	799.917	01.4000/	100-	41.2	43.83°C	0.988
80%	11.933V	5.019V	3.275V	4.898V	874.241	91.499%	1367	41.2	51.86°C	230.32\
000/	68.536A	8.474A	8.561A	2.459A	899.697	01.0620/	1.400	44.4	44.08°C	0.99
90%	11.924V	5.016V	3.271V	4.881V	988.006	91.062%	1493	44.4	53.12°C	230.31\
1000/	76.383A	8.977A	9.093A	3.103A	999.743	00.5160/	1621	45.0	45.61°C	0.991
100%	11.914V	5.014V	3.266V	4.835V	1104.493	90.516%	1631	45.9	55.67°C	230.29\
1100/	84.176A	9.981A	10.214A	3.113A	1100.368	00.0100/	1760	47.6	46.95°C	0.993
110%	11.904V	5.01V	3.26V	4.819V	1223.818	89.912%	1762	47.6	57.89°C	230.28\
O. 1	0.117A	15.565A	15.705A	0A	131.317	01.0100/	•	6.0	45.72°C	0.921
CL1	12.021V	5.031V	3.286V	5.076V	161.699	81.212%	0	<6.0	40.2°C	230.41\
CI O	0.117A	24.864A	0A	0A	126.405	70.26224	0	.6.0	48.15°C	0.919
CL2	12.026V	5.027V	3.318V	5.085V	159.233	79.369%	0	<6.0	41.14°C	230.42\
21.2	0.116A	0A	25.236A	0A	83.9	71.000/	•	6.0	49.93°C	0.881
CL3	12.029V	5.051V	3.269V	5.08V	116.65	71.92%	0	<6.0	40.89°C	230.42\
	83.859A	0A	0A	0A	1000.242				45.56°C	0.992
CL4	11.928V	5.03V	3.288V	5.004V	1097.699	91.122%	1635	46	56.5°C	230.3V

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20-80W LOAD TESTS 230V									1	
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
2014	1.236A	0.496A	0.498A	0.196A	20.011	64.0210/			39.99°C	0.555
20W	12.030V	5.043V 3.317V 5.097V 30.87 64.831% 0	0	<6.0	36.94°C	230.42V				
40)44	2.722A	0.694A	0.697A	0.295A	40.008		•		40.83°C	0.716
40W	12.010V	76.37% 0 0V 5.044V 3.316V 5.09V 52.389	U	<6.0	37.6°C	230.42V				
6014	4.206A	0.893A	0.896A	0.394A	60.008	01.7000/	•		42.23°C	0.803
60W	12.017V	17V 5.044V 3.315V 5.08V 73.44 81.709% 0	0	<6.0	38.88°C	230.42V				
00147	5.687A	1.091A	1.095A	0.495A	79.982	84.257%	•	<6.0	43.01°C	0.856
80W	12.018V	5.044V	3.315V	5.055V	94.929		0		39.4°C	230.42V

RIPPLE MEA	SUREMENTS 230\				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	12.97mV	6.58mV	4.58mV	7.95mV	Pass
20% Load	14.87mV	6.22mV	4.48mV	6.47mV	Pass
30% Load	11.55mV	6.78mV	4.63mV	6.52mV	Pass
40% Load	11.50mV	6.94mV	4.78mV	8.15mV	Pass
50% Load	12.47mV	7.45mV	4.68mV	7.28mV	Pass
60% Load	13.89mV	7.65mV	4.93mV	7.79mV	Pass
70% Load	15.52mV	9.74mV	6.36mV	9.83mV	Pass
80% Load	16.13mV	10.86mV	8.65mV	11.11mV	Pass
90% Load	16.13mV	9.23mV	8.39mV	12.13mV	Pass
100% Load	22.49mV	9.72mV	8.75mV	15.86mV	Pass
110% Load	24.10mV	10.14mV	9.20mV	32.95mV	Pass
Crossload1	20.68mV	7.48mV	9.01mV	5.94mV	Pass
Crossload2	10.58mV	5.51mV	3.46mV	4.43mV	Pass
Crossload3	26.41mV	6.02mV	9.92mV	4.64mV	Pass
Crossload4	22.42mV	9.69mV	5.93mV	8.25mV	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

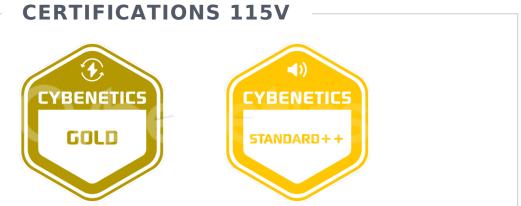
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Anex Corsair TX1000









Aristeidis BitziopoulosLab Director

CERTIFICATIONS 230V





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