

Anex XPG Pylon 650W

Lab ID#: AD65001700

Receipt Date: Jul 31, 2020

Test Date: Aug 25, 2020

Report: 20PS1700A

Report Date: Aug 25, 2020

DUT INFORMATION	
Brand	XPG
Manufacturer (OEM)	Channel Well Technology
Series	Pylon
Model Number	
Serial Number	
DUT Notes	

DUT SPECIFICATIONS			
Rated Voltage (Vrms)	100-240		
Rated Current (Arms)	10-5		
Rated Frequency (Hz)	50-60		
Rated Power (W)	650		
Туре	ATX12V		
Cooling	120mm Fluid Dynamic Bearing Fan (HA1225H12F-Z)		
Semi-Passive Operation	х		
Cable Design	Fixed cables		

POWER SPECIFICATIONS						
Rail		3.3V	5V	12V	5VSB	-12V
May Dayer	Amps	20	20	54	2.5	0.3
Max. Power Watts		110		648	12.5	3.6
Total Max. Power (W)		650				

CABLES AND CONNECTORS				
Native Cables				
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Caps
ATX connector 20+4 pin (660mm)	1	1	16-22AWG	No
8 pin EPS12V (660mm) / 4+4 pinEPS12V (+150mm)	1	1/1	18AWG	No
6+2 pin PCle (580mm+150mm)	2	4	18AWG	No
SATA (550mm+150mm+150mm) / 4-pin Molex (+150mm)	2	6/2	18AWG	No
SATA (550mm+150mm) / 4-pin Molex (+150mm) / FDD (+150mm)	1	2/1/1	18-22AWG	No

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General Data	
Manufacturer (OEM)	СWТ
PCB Type	Single Sided
Primary Side	-
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV, 1x CAP200DG (Discharge IC)
Inrush Protection	NTC Thermistor SCK - 2R58
Bridge Rectifier(s)	1x GBU1506 (600V, 15A @ 100°C)
APFC MOSFETs	2x Champion GP18S50 (500V, 18A, Rds(on): 0.19Ohm)
APFC Boost Diode	1x On Semiconductor FFSP0665A (650V, 6A @ 153°C)
Bulk Cap(s)	1x Nippon Chemi-Con (400V, 470uF, 2,000h @ 105°C, KMW)
Main Switchers	2x Silan Microelectronics SVF20N50F (500V, 12.6 @ 100°C, Rds(on): 0.270hm)
PFC/PWM Combo Controller	Champion CM6800TX & Champion CM03X
Topology	Primary side: APFC, Double Forward Secondary side: Passive Rectification (12V) & DC-DC converters (5V & 3.3V)
Secondary Side	-
+12V SBRs	4x PFC PFR30L60CT (60V, 30A)
5V & 3.3V MOSFETs	4x Sync Power SPN3006 (30V, 57A @ 100°C, Rds(on): 5.5mOhm) PWM Controller: ANPEC APW7159C
Filtering Capacitors	Electrolytic: 6x Jun Fu (2-5,000h @ 105°C, WL), 4x Jun Fu (2,000h @ 105°C, WG), 3x CapXon (2-5,000h @ 105°C, KF), 4x CapXon (2,000h @ 105°C, GF) Polymer: 2x APAQ
Supervisor IC	INI1S429I - DCG
Fan Model	Hong Hua HA1225H12F-Z (120mm, 12V, 0.58A, Rifle Bearing Fan)
5VSB Circuit	-
Standby PWM Controller	Power Integrations TNY287PG

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RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓

115V	
Average Efficiency	85.041%
Efficiency With 10W (≤500W) or 2% (>500W)	65.827
Average Efficiency 5VSB	79.715%
Standby Power Consumption (W)	0.0376381
Average PF	0.983
Avg Noise Output	32.21 dB(A)
Efficiency Rating (ETA)	SILVER
Noise Rating (LAMBDA)	S++

230V	
Average Efficiency	87.344%
Average Efficiency 5VSB	78.013%
Standby Power Consumption (W)	0.0813144
Average PF	0.958
Avg Noise Output	32.25 dB(A)
Efficiency Rating (ETA)	SILVER
Noise Rating (LAMBDA)	S++

TEST EQUIPMENT	
Electronic Loads	Chroma 63601-5 x4 Chroma 63600-2 x2 63640-80-80 x20 63610-80-20 x2
AC Sources	Chroma 6530, Keysight AC6804B
Power Analyzers	N4L PPA1530 x2
Sound Analyzer	Bruel & Kjaer 2270 G4
Microphone	Bruel & Kjaer Type 4955-A
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2
Tachometer	UNI-T UT372 x2
Digital Multimeter	Keysight U1273AX, Fluke 289, Keithley 2015 - THD
UPS	CyberPower OLS3000E 3kVA x2

HOLD-UP TIME & POWER OK SIGNAL (230V)	
Hold-Up Time (ms)	14.2
AC Loss to PWR_OK Hold Up Time (ms)	12.6
PWR_OK Inactive to DC Loss Delay (ms)	1.6

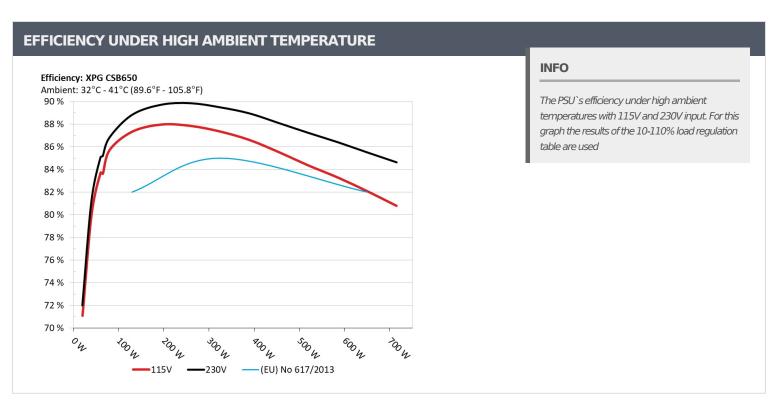
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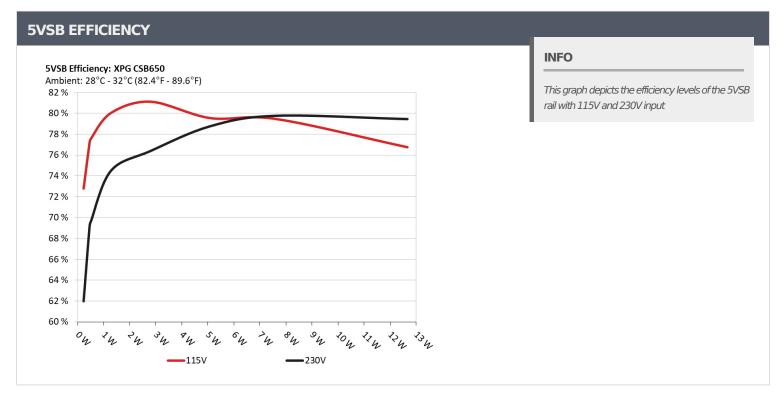
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)				
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
-	0.045A	0.230		0.037
1	5.116V	0.316	72.785%	115.18V
2	0.090A	0.461	77.2100/	0.069
	5.115V	0.597	77.219%	115.18V
3	0.550A	2.810	81.120%	0.277
	5.106V	3.464		115.18V
	1.000A	5.099	79.548%	0.363
4	5.098V	6.410		115.18V
_	1.500A	7.632		0.410
5	5.087V	9.605	79.459%	115.17V
6	2.501A	12.671	76 7500/	0.460
	5.067V	16.509	76.752%	115.15V

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)				
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
	0.045A	0.230	C1 00F0/	0.013
1	5.116V	0.371	61.995%	230.38V
2	0.090A	0.461	CO 2100/	0.024
2	5.115V	0.666	69.219%	230.38V
	0.550A	2.809	76.2040/	0.120
3	5.106V	3.677	76.394%	230.38V
	1.000A	5.099	70.7610/	0.188
4	5.098V	6.474	78.761%	230.38V
_	1.500A	7.632		0.242
5	5.087V	9.569	79.758%	230.38V
6	2.500A	12.672		0.311
	5.068V	15.951	79.443%	230.37V

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115V

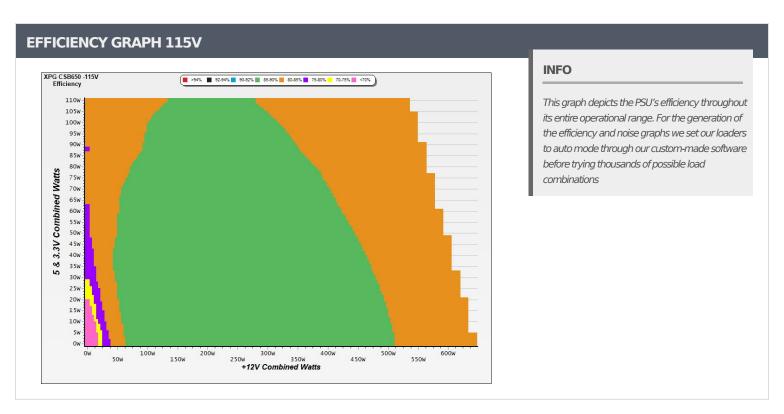
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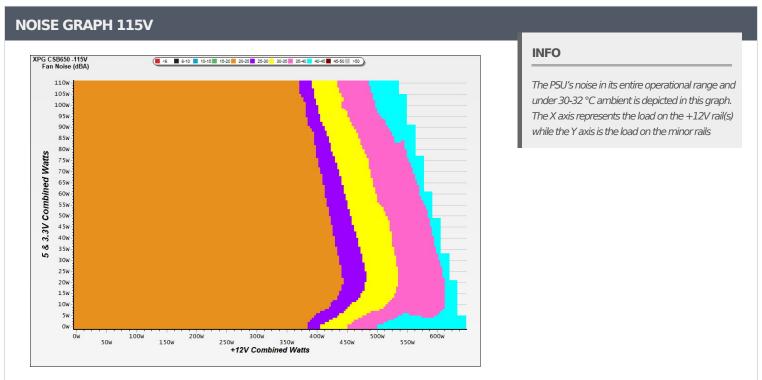
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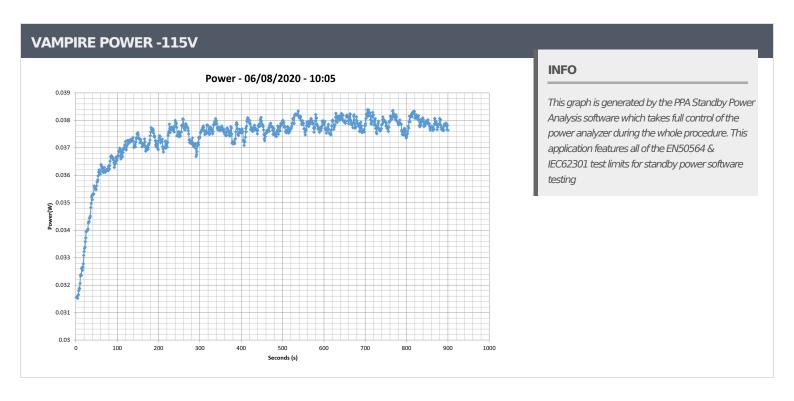
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Test # 12V 5V 3.3V 5VSB (Watts) Efficiency (RPM) (dB(A)) (invotut) 1	
1 12.146V 5.031V 3.306V 5.084V 77.693 83.616% 883 22.1 37.42°C 1 8.170A 2.985A 2.998A 1.183A 130.031	PF/AC Volts
12.146V 5.031V 3.306V 5.084V 77.693 37.42°C 3 8.170A 2.985A 2.998A 1.183A 130.031 37.32°K 3885 22.5 34.93°C 0 12.132V 5.027V 3.304V 5.073V 148.897 87.329% 885 22.5 38.67°C 3 3.119A 3.484A 3.499A 1.383A 195.036 39.39°C 3 12.118V 5.025V 3.302V 5.061V 221.737 87.958% 888 23.1 39.39°C 3 12.105V 5.022V 3.300V 5.050V 296.066 87.830% 894 22.9 35.61°C 0 12.105V 5.022V 3.300V 5.050V 296.066 87.830% 894 22.9 36.02°C 0 12.091V 5.020V 3.299V 5.037V 372.226 87.332% 896 22.8 36.02°C 0 12.077V 5.020V 3.298V 5.023V 449.928 86.589% 899 22.7 36.67°C 0 12.077V 5.020V 3.298V 5.023V 449.928 85.513% 1082 27.7 37.36°C 0 12.063V 5.018V 3.297V 5.010V 531.994 85.513% 1082 27.7 37.36°C 0 36.671A 7.978A 8.016A 2.402A 520.234 84.338% 1458 36.0 37.87°C 0 12.048V 5.016V 3.294V 4.996V 616.844 84.338% 1458 36.0 36.20°C 38.38°C 0 12.034V 5.012V 3.292V 4.999V 702.668 83.277% 1809 41.0 38.38°C 0 12.034V 5.012V 3.292V 4.999V 702.668 83.277% 1809 41.0 38.38°C 0 12.034V 5.012V 3.292V 4.999V 702.668 83.277% 1809 41.0 39.07°C 0 12.018V 5.010V 3.290V 4.979V 791.820 80.784% 2374 46.0 40.94°C 0	0.950
2 12.132V 5.027V 3.304V 5.073V 148.897 87.329% 885 22.5 38.67°C 35.01°C 39.39°C 39.39°C 39.39°C 39.39°C 39.39°C 39.39°C 39.39°C 35.61°C 40.39°C 35.61°C 40.39°C 35.61°C 40.39°C 35.61°C 40.39°C 36.02°C 41.91°C 36.02°C 43.53°C 36.02°C 36.02°C 43.53°C 37.35°C 37.35°C 37.35°C 37.35°C 37.35°C 37.35°C 37.35°C 45.26°C 37.35°C 45.26°C 37.35°C<	115.13V
12.132V 5.027V 3.304V 5.073V 148.897 38.67°C 1 3	0.973
3 12.118V 5.025V 3.302V 5.061V 221.737 87.958% 888 23.1 39.39°C 39.51°C 39.51°C<	115.11V
12.118V 5.025V 3.302V 5.061V 221.737 39.39°C 3 18.077A 3.985A 3.999A 1.585A 260.036 12.105V 5.022V 3.300V 5.050V 296.066 22.707A 4.982A 5.005A 1.787A 325.073 12.091V 5.020V 3.299V 5.037V 372.226 27.307A 5.977A 6.003A 1.991A 389.590 12.077V 5.020V 3.298V 5.023V 449.928 31.982A 6.978A 7.007A 2.197A 454.924 12.063V 5.018V 3.297V 5.010V 531.994 85.513% 1082 27.7 36.671A 7.978A 8.016A 2.402A 520.234 12.048V 5.016V 3.294V 4.996V 616.844 40.39°C 3 36.02°C 0 41.91°C 3 36.67°C 0 43.53°C 3 36.67°C 0 43.53°C 3 37.36°C 0 45.26°C 3 45.26°C 3 46.20°C 3 46.20°C 3 46.20°C 3 46.20°C 3 47.43°C 3 46.820A 8.984A 9.026A 2.511A 649.891 12.018V 5.010V 3.290V 4.979V 791.820 52.273A 8.989A 9.033A 2.515A 714.716 80.784% 2374 46.0	0.982
4 12.105V 5.022V 3.300V 5.050V 296.066 87.830% 894 22.9 40.39°C 3.00°C	115.04\
12.105V 5.022V 3.300V 5.050V 296.066 40.39°C 1 22.707A 4.982A 5.005A 1.787A 325.073 87.332% 896 22.8 36.02°C (0 12.091V 5.020V 3.299V 5.037V 372.226 87.332% 896 22.8 41.91°C 1 6 27.307A 5.977A 6.003A 1.991A 389.590 86.589% 899 22.7 36.67°C (0 12.077V 5.020V 3.298V 5.023V 449.928 86.589% 899 22.7 43.53°C 1 7 31.982A 6.978A 7.007A 2.197A 454.924 85.513% 1082 27.7 452.6°C 1 12.063V 5.018V 3.297V 5.010V 531.994 85.513% 1082 27.7 452.6°C 1 8 36.671A 7.978A 8.016A 2.402A 520.234 84.338% 1458 36.0 37.87°C (0 12.048V 5.016V 3.294V 4.996V 616.844 84.338% 1458 36.0 46.20°C 1 41.769A 8.481A 8.505A 2.406A 585.158 83.277% 1809 41.0 38.38°C (0 12.034V 5.012V 3.292V 4.989V 702.668 83.277% 1809 41.0 47.43°C 1 46.820A 8.984A 9.026A 2.511A 649.891 82.076% 2206 45.9 48.68°C 1 12.018V 5.010V 3.290V 4.979V 791.820 80.784% 2374 46.0	0.986
5 12.091V 5.020V 3.299V 5.037V 372.226 87.332% 896 22.8 41.91°C 389.1°C 36.67°C 37.36°C 37.36°C<	115.01V
12.091V 5.020V 3.299V 5.037V 372.226 41.91°C 1 27.307A 5.977A 6.003A 1.991A 389.590 12.077V 5.020V 3.298V 5.023V 449.928 86.589% 899 22.7 31.982A 6.978A 7.007A 2.197A 454.924 12.063V 5.018V 3.297V 5.010V 531.994 85.513% 1082 27.7 36.671A 7.978A 8.016A 2.402A 520.234 12.048V 5.016V 3.294V 4.996V 616.844 9 41.769A 8.481A 8.505A 2.406A 585.158 12.034V 5.012V 3.292V 4.989V 702.668 10 46.820A 8.984A 9.026A 2.511A 649.891 10 12.018V 5.010V 3.290V 4.979V 791.820 89.784% 2374 46.0	0.988
6	115.04\
12.077V 5.020V 3.298V 5.023V 449.928 43.53°C 12 31.982A 6.978A 7.007A 2.197A 454.924 12.063V 5.018V 3.297V 5.010V 531.994 85.513% 1082 27.7 45.26°C 12 45.26°C 13 37.87°C 10 46.20°C 13 41.769A 8.481A 8.505A 2.406A 585.158 83.277% 1809 41.0 46.820A 8.984A 9.026A 2.511A 649.891 82.076% 2206 45.9 48.68°C 12 48.68°C 13 40.94°C 10 52.273A 8.989A 9.033A 2.515A 714.716 80.784% 2374 46.0	0.990
7	115.05\
12.063V 5.018V 3.297V 5.010V 531.994 45.26°C 1 8	0.991
8	115.05\
12.048V 5.016V 3.294V 4.996V 616.844 46.20°C 3.2008 9 41.769A 8.481A 8.505A 2.406A 585.158 83.277% 1809 41.0 12.034V 5.012V 3.292V 4.989V 702.668 83.277% 1809 41.0 46.820A 8.984A 9.026A 2.511A 649.891 82.076% 2206 45.9 10 12.018V 5.010V 3.290V 4.979V 791.820 82.076% 2374 46.0	0.992
9	115.07∖
12.034V 5.012V 3.292V 4.989V 702.668 47.43°C 3. 46.820A 8.984A 9.026A 2.511A 649.891 12.018V 5.010V 3.290V 4.979V 791.820 2206 45.9 52.273A 8.989A 9.033A 2.515A 714.716 80.784% 2374 46.0	0.993
10 12.018V 5.010V 3.290V 4.979V 791.820 82.076% 2206 45.9 48.68°C 32 48.68°C	115.13V
12.018V 5.010V 3.290V 4.979V 791.820 48.68°C 3.273A 8.989A 9.033A 2.515A 714.716 40.94°C 0.274 46.0	0.993
11 80.784% 2374 46.0	115.09V
	0.994
	115.08\
	0.973
CL1 80.307% 912 22.9 41.52°C 1	115.10\
	0.994
CL2	115.06V

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20-80	W LOAD	D TESTS 115V							
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts
1	1.221A	0.496A	0.500A	0.196A	19.995	71.0020/	000	22.1	0.880
1	12.156V	5.035V	3.310V	5.106V	28.129	71.083%	889	23.1	115.15V
2	2.442A	0.994A	0.999A	0.392A	39.984	00.0220/	002	22.0	0.930
2	12.152V	5.034V	3.309V	5.099V	49.966	80.022%	892	22.9	115.14V
2	3.668A	1.491A	1.497A	0.589A	60.013	02.7040/	001	22.0	0.946
3	12.148V	5.032V	3.308V	5.093V	71.697	83.704%	891	23.0	115.13V
4	4.888A	1.988A	1.998A	0.787A	79.962	05.7110/	004	22.5	0.959
4	12.143V	5.030V	3.306V	5.086V	93.293	85.711%	884	22.5	115.13V

RIPPLE MEAS	PLE MEASUREMENTS 115V						
Test	12V	5V	3.3V	5VSB	Pass/Fail		
10% Load	6.30mV	6.50mV	6.60mV	7.50mV	Pass		
20% Load	7.70mV	7.30mV	7.10mV	8.00mV	Pass		
30% Load	9.00mV	7.60mV	7.60mV	9.60mV	Pass		
40% Load	10.40mV	8.30mV	8.10mV	8.70mV	Pass		
50% Load	12.00mV	8.80mV	8.40mV	8.70mV	Pass		
60% Load	14.30mV	11.70mV	9.70mV	11.50mV	Pass		
70% Load	16.50mV	13.30mV	12.00mV	12.90mV	Pass		
80% Load	19.00mV	14.40mV	19.60mV	14.20mV	Pass		
90% Load	26.70mV	16.00mV	19.00mV	13.50mV	Pass		
100% Load	40.30mV	18.60mV	20.30mV	15.10mV	Pass		
110% Load	51.00mV	19.90mV	21.80mV	14.90mV	Pass		
Crossload1	11.00mV	13.90mV	19.60mV	8.10mV	Pass		
Crossload2	44.80mV	12.30mV	10.40mV	8.20mV	Pass		

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230V

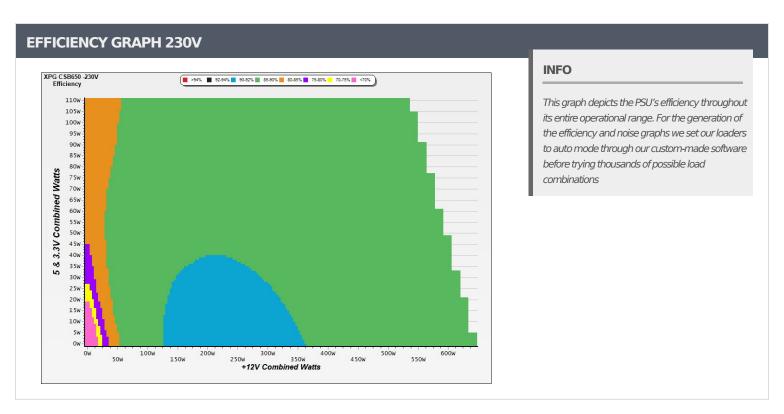
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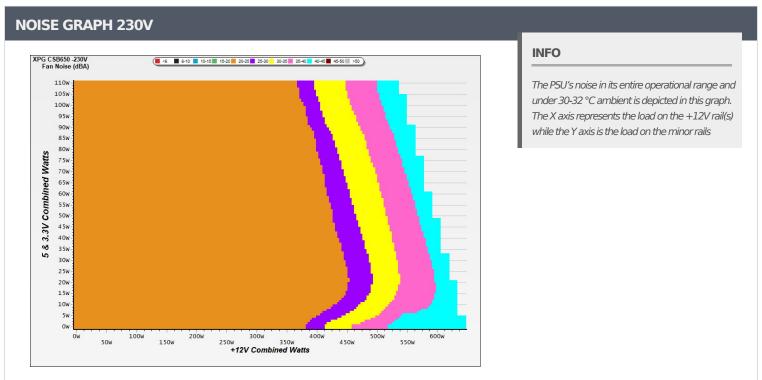
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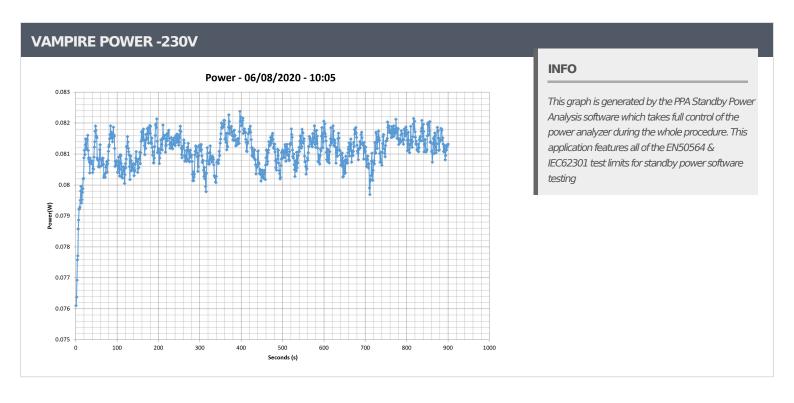
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10-1	10% LOA	D TESTS	230V							
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
1	3.570A	1.988A	1.996A	0.984A	64.964	05.1720/	000	22.1	34.12°C	0.852
1	12.146V	5.031V	3.306V	5.084V	76.273	85.173%	882	22.1	37.07°C	230.33V
2	8.171A	2.985A	2.997A	1.183A	130.033	00.0170/	006	22.7	34.67°C	0.927
2	12.131V	5.028V	3.304V	5.073V	146.405	88.817%	886	22.7	38.43°C	230.32V
2	13.119A	3.483A	3.499A	1.384A	195.036	00.77.50/	000	22.1	35.17°C	0.953
3	12.118V	5.025V	3.302V	5.061V	217.404	89.711%	889	23.1	39.92°C	230.30V
4	18.079A	3.985A	4.001A	1.585A	260.048	00.0360/	001	22.0	35.58°C	0.966
4	12.104V	5.022V	3.300V	5.050V	289.469	89.836%	891	23.0	41.19°C	230.25V
F	22.710A	4.981A	5.005A	1.788A	325.084	00.4710/	007	22.0	36.53°C	0.974
5	12.090V	5.020V	3.299V	5.036V	363.339	89.471%	897	22.8	42.42°C	230.26V
6	27.311A	5.978A	6.005A	1.992A	389.626	00.0270/	001	22.7	36.78°C	0.978
6	12.076V	5.020V	3.298V	5.022V	438.093	88.937%	901	22.7	43.24°C	230.26V
7	31.989A	6.977A	7.009A	2.197A	454.972	00.0770/	1074	27.4	37.04°C	0.981
7	12.062V	5.018V	3.297V	5.008V	516.563	88.077%			44.11°C	230.27V
0	36.681A	7.979A	8.013A	2.403A	520.271	07.2120/		26.0	37.95°C	0.984
8	12.046V	5.015V	3.294V	4.995V	596.556	87.212%	1471	36.9	46.23°C	230.29V
0	41.782A	8.483A	8.505A	2.407A	585.198	06 2010/	1022	41.4	38.59°C	0.986
9	12.031V	5.012V	3.292V	4.987V	677.381	86.391%	1832	41.4	47.90°C	230.29V
10	46.831A	8.988A	9.029A	2.512A	649.952	OF 4000/	2105	45.0	39.00°C	0.987
10	12.016V	5.009V	3.290V	4.978V	760.183	85.499%	2185	45.8	49.31°C	230.27V
11	52.290A	8.992A	9.034A	2.516A	714.775	94 6249/	2271	46.0	40.53°C	0.988
11	12.001V	5.007V	3.289V	4.971V	844.650	84.624%	2371	40.0	52.00°C	230.30V
CI 1	0.118A	13.000A	13.001A	0.000A	109.699	01 6600/	6 915	23.1	36.56°C	0.923
CL1	12.130V	5.028V	3.300V	5.070V	134.322	81.669%			42.18°C	230.26V
CI 2	54.024A	1.000A	0.998A	1.000A	662.532	06.1600/	2214	46.0	39.62°C	0.987
CL2	12.017V	5.014V	3.297V	5.021V	768.690	86.190%	2214	46.0	49.58°C	230.28V

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12.142V

5.030V

3.306V

5.087V

EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

Anex XPG Pylon 650W

20-80	W LOAD	TESTS 23	30V						
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts
1	1.221A	0.497A	0.499A	0.196A	19.994	72.0060/	070	21.0	0.613
1	12.155V	5.034V	3.309V	5.106V	27.767	72.006%	879	21.9	230.33V
	2.443A	0.994A	0.997A	0.392A	39.984	01.10.40/	077	21.0	0.769
2	12.151V	5.032V	3.308V	5.100V	49.251	81.184%	877	21.8	230.33V
	3.669A	1.491A	1.496A	0.589A	60.013	0= 0==0/			0.839
3	12.146V	5.031V	3.307V	5.094V	70.558	85.055%	878	21.8	230.33V
	4.889A	1.987A	1.997A	0.787A	79.962				0.880
4						86.813%	881	22.0	

92.108

RIPPLE MEASUREMENTS 230V							
Test	12V	5V	3.3V	5VSB	Pass/Fail		
10% Load	6.50mV	6.80mV	6.80mV	7.50mV	Pass		
20% Load	7.70mV	7.10mV	7.30mV	7.80mV	Pass		
30% Load	9.10mV	7.50mV	7.90mV	9.60mV	Pass		
40% Load	9.40mV	8.40mV	7.70mV	8.40mV	Pass		
50% Load	10.70mV	9.40mV	8.70mV	9.10mV	Pass		
60% Load	13.70mV	12.30mV	9.90mV	12.90mV	Pass		
70% Load	16.10mV	13.70mV	12.00mV	12.50mV	Pass		
80% Load	17.90mV	14.80mV	18.50mV	13.20mV	Pass		
90% Load	25.30mV	14.60mV	18.50mV	13.00mV	Pass		
100% Load	38.50mV	17.90mV	19.60mV	15.10mV	Pass		
110% Load	46.30mV	19.80mV	20.80mV	15.10mV	Pass		
Crossload1	11.20mV	14.20mV	19.20mV	7.90mV	Pass		
Crossload2	41.50mV	12.10mV	10.20mV	7.50mV	Pass		

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230.33V

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Anex XPG Pylon 650W









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