

Anex

Thermaltake Toughpower GF2 ARGB 850W

Lab ID#: TT85001815
Receipt Date: Feb 22, 2021
Test Date: Mar 22, 2021

Report: 21PS1815A

Report Date: Apr 7, 2021

DUT INFORMATION		
Brand	Thermaltake	
Manufacturer (OEM)	High Power	
Series	Toughpower GF2 ARGB	
Model Number	TTP-850AH3FSG-A	
Serial Number	PSTPD0850F3FAGU2XF000374	
DUT Notes		

DUT SPECIFICATIONS				
Rated Voltage (Vrms)	100-240			
Rated Current (Arms)	10			
Rated Frequency (Hz)	50-60			
Rated Power (W)	850			
Туре	ATX12V			
Cooling	140mm Hydraulic Bearing Fan [TT-1425 (A1425S12S-2)]			
Semi-Passive Operation	✓ (selectable)			
Cable Design	Fully Modular			

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
Transformer	3kVA x2

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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	89.025%
Efficiency With 10W (≤500W) or 2% (>500W)	56.515
Average Efficiency 5VSB	78.336%
Standby Power Consumption (W)	0.0703683
Average PF	0.993
Avg Noise Output	34.51 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Standard++

90.754%
77.343%
0.1194710
0.962
34.51 dB(A)
GOLD
Standard++

POWER SPECIFICATIONS						
Rail		3.3V	5V	12V	5VSB	-12V
Mary Davissa	Amps	22	22	70.9	3	0.3
Max. Power	Watts	120		850	15	3.6
Total Max. Power (W)		850				

HOLD-UP TIME & POWER OK SIGNAL (230V)			
Hold-Up Time (ms)	20		
AC Loss to PWR_OK Hold Up Time (ms)	17		
PWR_OK Inactive to DC Loss Delay (ms)	3		

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Modular Cables					
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors	
ATX connector 20+4 pin (610mm)	1	1	18AWG	No	
4+4 pin EPS12V (660mm)	1	1	16AWG	No	
8 pin EPS12V (660mm)	1	1	16AWG	No	
6+2 pin PCIe (500mm+160mm)	3	6	16-18AWG	No	
SATA (510mm+160mm+160mm+160mm)	3	12	18AWG	No	
4-pin Molex (500mm+150mm+150mm+150mm)	1	4	18AWG	No	
FDD Adapter (+160mm)	1	1	22AWG	No	
ARGB Sync Cable (610mm+160mm)	1	2	26AWG	No	
AC Power Cord (1400mm) - C13 coupler	1	1	18AWG	_	

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General Data	
Manufacturer (OEM)	High Power
PCB Type	Double Sided
Primary Side	-
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV, 1x Champion CMD02X (Discharge IC)
Inrush Protection	-
Bridge Rectifier(s)	2x HY GBU1506L (600V, 15A @ 100°C)
APFC MOSFETs	2x Infineon IPA50R140CP (500V, 15A @ 100°C, Rds(on): 0.140hm)
APFC Boost Diode	1x CREE C3D08060A (600V, 8A @ 152°C)
Bulk Cap(s)	1x Rubycon (400V, 470uF, 3,000h @ 105°C, MXK) & 1x Rubycon (400V, 390uF, 2,000h @ 105°C, MXH)
Main Switchers	2x Infineon IPA60R180P7S (600V, 11A @ 100°C, Rds(on): 0.180hm)
APFC Controller	Infineon ICE3PCS01G
Resonant Controller	Champion CM6901X
Topology	Primary side: APFC, Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	-
+12V MOSFETs	6x Infineon BSC027N04LS (40V, 88A @ 100°C, Rds(on): 2.7mOhm)
5V & 3.3V	DC-DC Converters: 6x Infineon BSC0906NS (30V, 40A @ 100°C, Rds(on): 4.5mOhm)
	PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic: 3x Nippon Chemi-Con (1-5,000h @ 105°C, KZE), 3x Nippon Chemi-Con (4-10,000h @ 105°C, KY), 3x Rubycon (3-6,000h @ 105°C, YXG), 1x Rubycon (6-10,000h @ 105°C, ZLH) Polymer: 15x FPCAP, 2x NIC
Filtering Capacitors Supervisor IC	Electrolytic: 3x Nippon Chemi-Con (1-5,000h @ 105°C, KZE), 3x Nippon Chemi-Con (4-10,000h @ 105°C, KY), 3x Rubycon (3-6,000h @ 105°C, YXG), 1x Rubycon (6-10,000h @ 105°C, ZLH)
	Electrolytic: 3x Nippon Chemi-Con (1-5,000h @ 105°C, KZE), 3x Nippon Chemi-Con (4-10,000h @ 105°C, KY), 3x Rubycon (3-6,000h @ 105°C, YXG), 1x Rubycon (6-10,000h @ 105°C, ZLH) Polymer: 15x FPCAP, 2x NIC
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Supervisor IC Fan Model	Electrolytic: 3x Nippon Chemi-Con (1-5,000h @ 105°C, KZE), 3x Nippon Chemi-Con (4-10,000h @ 105°C, KY), 3x Rubycon (3-6,000h @ 105°C, YXG), 1x Rubycon (6-10,000h @ 105°C, ZLH) Polymer: 15x FPCAP, 2x NIC WT7527RA (OCP, OVP, UVP, SCP, PG) Thermaltake TT-1425 A1425S12S-2 (140mm, 12V, 0.70A, Hydraulic Bearing Fan)
Supervisor IC Fan Model Fan Controller	Electrolytic: 3x Nippon Chemi-Con (1-5,000h @ 105°C, KZE), 3x Nippon Chemi-Con (4-10,000h @ 105°C, KY), 3x Rubycon (3-6,000h @ 105°C, YXG), 1x Rubycon (6-10,000h @ 105°C, ZLH) Polymer: 15x FPCAP, 2x NIC WT7527RA (OCP, OVP, UVP, SCP, PG) Thermaltake TT-1425 A1425S12S-2 (140mm, 12V, 0.70A, Hydraulic Bearing Fan)
Supervisor IC Fan Model Fan Controller 5VSB Circuit	Electrolytic: 3x Nippon Chemi-Con (1-5,000h @ 105°C, KZE), 3x Nippon Chemi-Con (4-10,000h @ 105°C, KY), 3x Rubycon (3-6,000h @ 105°C, YXG), 1x Rubycon (6-10,000h @ 105°C, ZLH) Polymer: 15x FPCAP, 2x NIC WT7527RA (OCP, OVP, UVP, SCP, PG) Thermaltake TT-1425 A1425S12S-2 (140mm, 12V, 0.70A, Hydraulic Bearing Fan) STC STC15W401AS
Supervisor IC Fan Model Fan Controller 5VSB Circuit Rectifier	Electrolytic: 3x Nippon Chemi-Con (1-5,000h @ 105°C, KZE), 3x Nippon Chemi-Con (4-10,000h @ 105°C, KY), 3x Rubycon (3-6,000h @ 105°C, YXG), 1x Rubycon (6-10,000h @ 105°C, ZLH) Polymer: 15x FPCAP, 2x NIC WT7527RA (OCP, OVP, UVP, SCP, PG) Thermaltake TT-1425 A1425S12S-2 (140mm, 12V, 0.70A, Hydraulic Bearing Fan) STC STC15W401AS - 1x PFC P10V45SP SBR (45V, 10A), UTC 2N70L FET (700V, 2A, 6.30hm)

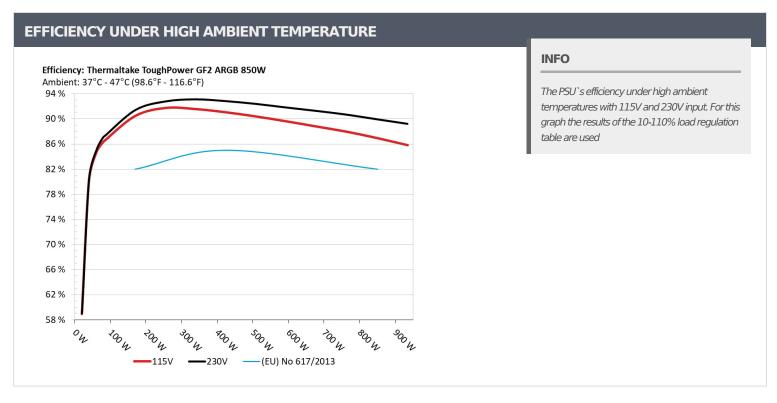
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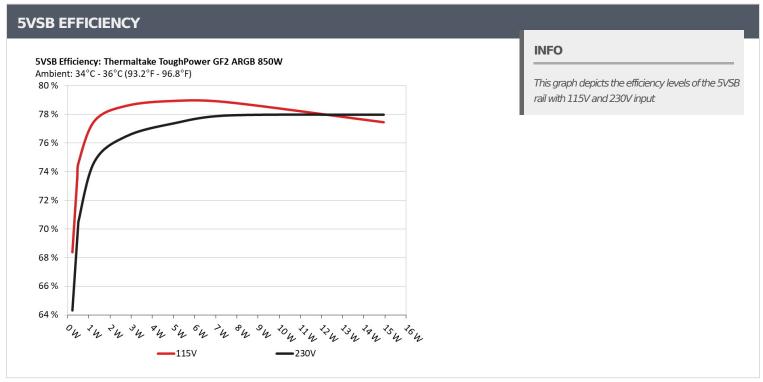
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)				
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
	0.045A	0.229	60.2500/	0.047
1	5.097V	0.335	68.358%	115.12V
	0.090A		72 5500/	0.085
2	5.095V	0.624	73.558%	115.13V
3	0.550A	2.793	70 5000/	0.256
	5.077V	3.554	78.588%	115.11V
	1.000A 5.060	70.0070/	0.307	
	5.060V	6.411	78.927%	115.11V
5	1.500A	7.561		0.337
	5.040V	9.591	78.834%	115.12V
	3.000A	14.941	77.4250/	0.376
6	4.980V	19.295	77.435%	115.12V

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)				
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.229		0.016
1	5.097V	0.356	64.326%	230.27V
2	0.090A	0.459	70 5070/	0.028
2	5.095V	0.651	70.507%	230.27V
3 0.550A 2.793 5.077V 3.652	2.793	76.4700/	0.131	
	5.077V	3.652	76.479%	230.26V
	1.000A	5.060	77.2020/	0.194
4	5.060V	6.539	77.382%	230.25V
_	1.500A	7.562	77.0100/	0.235
5	5.040V	9.705	77.919%	230.26V
	3.000A	14.944		0.293
6	4.981V	19.165	77.975%	230.27V

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115V

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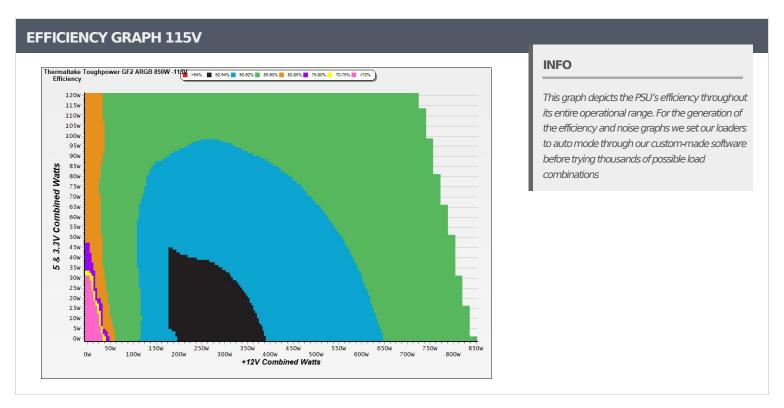
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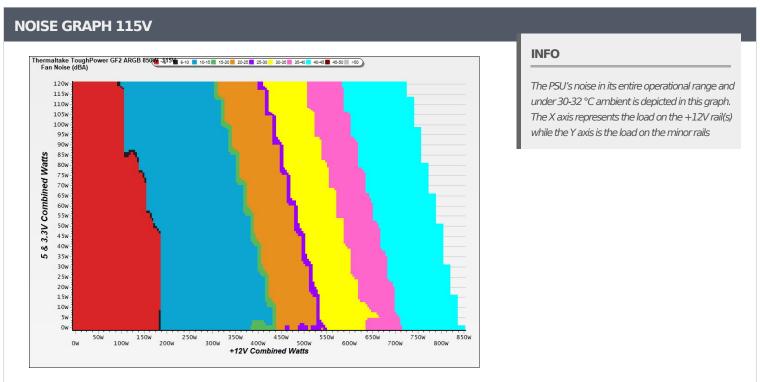
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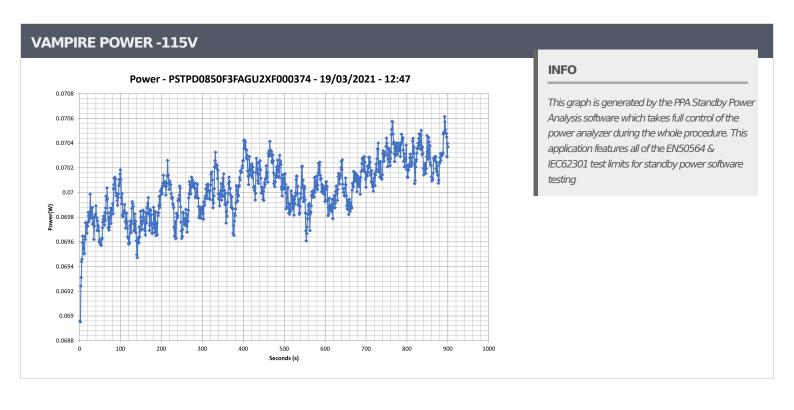
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Test #	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
1	5.269A	1.984A	1.966A	0.991A	84.963	00.5000/	0	-0.0	43.85°C	0.970
1	12.026V	5.040V	3.354V	5.049V	98.145	86.569%	0	<6.0	40.41°C	115.11\
2	11.578A	2.979A	2.955A	1.193A	170.042	- 00 4630/	603	13.4	40.48°C	0.987
2	12.018V	5.035V	3.350V	5.029V	187.969	90.463%		15.4	44.30°C	115.11\
2	18.224A	3.480A	3.453A	1.397A	255.057	01.7220/	505	13.6	41.16°C	0.997
3	12.017V	5.030V	3.346V	5.011V	278.044	91.733%	606	13.0	45.62°C	115.10\
4	24.884A	3.979A	3.948A	1.603A	340.088	01.5560/	600	12.6	41.99°C	0.996
4	12.011V	5.028V	3.343V	4.992V	371.454	91.556%	608	13.6	47.24°C	115.10\
_	31.202A	4.977A	4.942A	1.811A	425.027	01.0400/	610	12.0	42.31°C	0.997
5	12.003V	5.024V	3.339V	4.972V	466.858	91.040%	610	13.8	48.16°C	115.10\
_	37.489A	5.977A	5.939A	2.000A	509.470	00.2750/	077	25.0	42.75°C	0.998
6	11.997V	5.020V	3.335V	4.952V	563.727	90.375%	877	25.0	49.30°C	115.09\
-	43.856A	6.980A	6.935A	2.232A	594.915	00.5000/	1070	32.1	43.56°C	0.998
7	11.989V	5.016V	3.332V	4.931V	663.979	89.598%	1079	32.1	50.82°C	115.09\
0	50.231A	7.985A	7.934A	2.445A	680.248	00.7640/	1201	2F 4	43.96°C	0.998
8	11.981V	5.012V	3.328V	4.910V	766.357	88.764%	1201	35.4	52.05°C	115.09\
0	57.006A	8.488A	8.424A	2.451A	765.179	07.0240/	1400	41.0	44.84°C	0.998
9	11.975V	5.009V	3.325V	4.898V	870.170	87.934%	1496	41.0	53.71°C	115.08\
10	63.530A	8.995A	8.944A	3.088A	849.991	06.0350/	1.400		45.17°C	0.999
10	11.967V	5.005V	3.321V	4.859V	977.840	86.925%	1498	40.9	54.72°C	115.07\
11	70.651A	8.997A	8.951A	3.095A	934.772	OF 0070/	1400	40.0	46.69°C	0.999
11	11.961V	5.003V	3.318V	4.848V	1089.392	85.807%	1498	40.9	57.44°C	115.06\
Cl 1	0.122A	14.004A	14.000A	0.000A	118.596	01.7000/	617	145	41.88°C	0.980
CL1	12.018V	5.022V	3.343V	5.064V	145.114	81.726%	617	14.5	48.25°C	115.13\
CLO	70.843A	0.999A	1.000A	1.000A	861.651	07.40.40/	1406	41.0	45.60°C	0.999
CL2	11.975V	5.021V	3.331V	4.959V	984.809	87.494%	1496	41.0	55.04°C	115.07∖

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20-80	20-80W LOAD TESTS 115V										
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts		
1	1.240A	0.500A	0.501A	0.200A	20.150	F0.0020/	0	<6.0	0.892		
1	12.039V	5.044V	3.358V	5.090V	34.209	58.903%	0		115.12V		
2	2.467A	0.991A	0.984A	0.394A	39.981	80.087%	0	<6.0	0.931		
2	12.031V	5.042V	3.357V	5.079V	49.922				115.11V		
2	3.705A	1.488A	1.473A	0.592A	60.011	84.523%	0	<6.0	0.959		
3	12.029V	5.041V	3.355V	5.068V	71.000				115.11V		
4	4.936A	1.984A	1.969A	0.791A	79.962	86.302%	0	<6.0	0.966		
4	12.026V	5.039V	3.354V	5.057V	92.654				115.11V		

RIPPLE I	MEASURE	MENTS	115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	32.00mV	7.60mV	10.70mV	3.50mV	Pass
20% Load	11.90mV	10.70mV	24.60mV	7.90mV	Pass
30% Load	9.20mV	8.50mV	11.80mV	3.90mV	Pass
40% Load	9.00mV	9.50mV	12.40mV	4.10mV	Pass
50% Load	9.50mV	10.40mV	12.50mV	4.80mV	Pass
60% Load	9.90mV	11.00mV	12.20mV	4.60mV	Pass
70% Load	11.40mV	11.60mV	13.10mV	5.10mV	Pass
80% Load	12.40mV	12.40mV	16.00mV	5.80mV	Pass
90% Load	13.90mV	13.30mV	14.60mV	6.20mV	Pass
100% Load	16.70mV	15.00mV	16.10mV	7.30mV	Pass
110% Load	19.90mV	16.70mV	18.50mV	7.50mV	Pass
Crossload1	25.50mV	17.00mV	19.20mV	14.70mV	Pass
Crossload2	16.80mV	13.60mV	14.30mV	6.50mV	Pass

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230V

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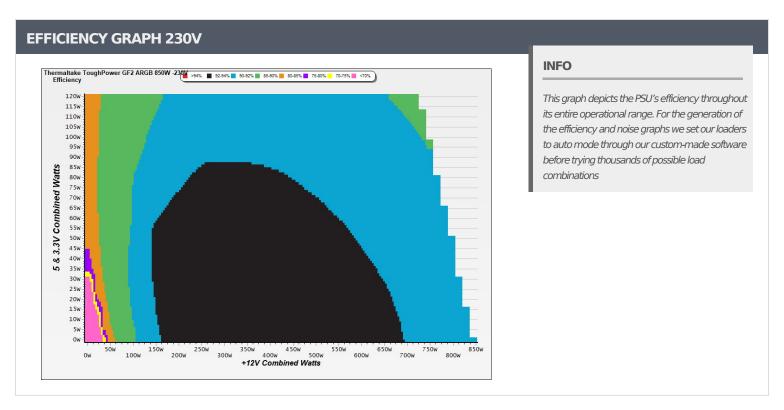
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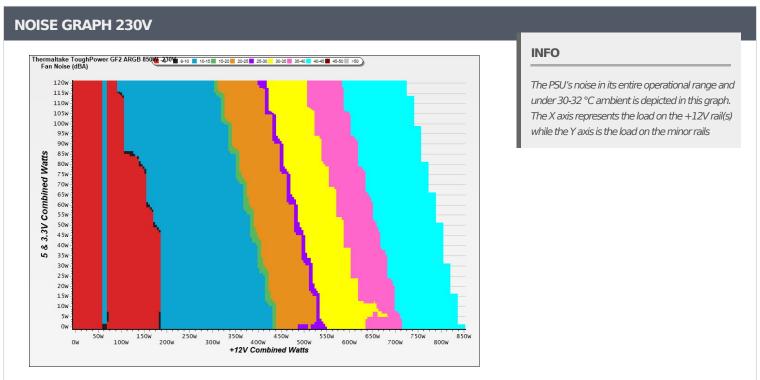
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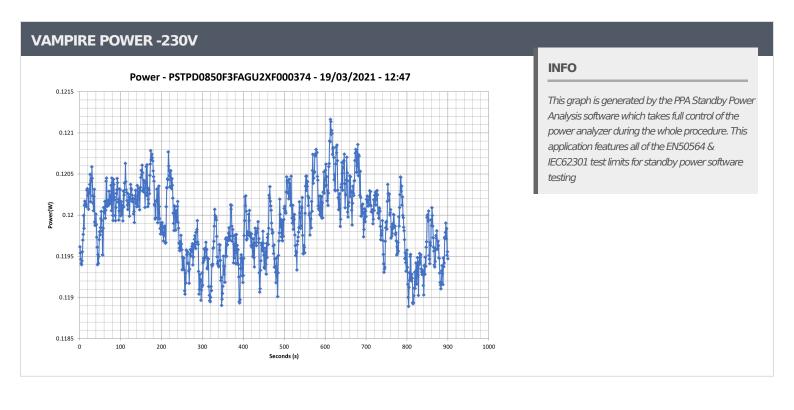
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Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
-	5.268A	1.984A	1.969A	0.991A	84.959	07.2400/	•	.6.0	43.76°C	0.839
1	12.026V	5.040V	3.354V	5.048V	97.274	87.340%	0	<6.0	40.08°C	230.23\
2	11.576A	2.977A	2.956A	1.193A	170.017	01.4060/	0	-0.0	44.86°C	0.932
2	12.018V	5.036V	3.351V	5.029V	185.962	91.426%		<6.0	40.51°C	230.22\
2	18.221A	3.479A	3.451A	1.397A	255.026	02.0020/		12.4	41.00°C	0.957
3	12.018V	5.030V	3.346V	5.011V	274.806	92.802%	605	13.4	45.84°C	230.23\
4	24.881A	3.978A	3.949A	1.603A	340.046	- 02 1220/	607	12.6	41.36°C	0.972
4	12.011V	5.027V	3.343V	4.992V	365.161	93.122%	607	13.6	46.59°C	230.23\
_	31.196A	4.977A	4.940A	1.810A	424.944	02.0400/	610	12.0	42.44°C	0.982
5	12.003V	5.024V	3.339V	4.972V	457.716	92.840%	610	13.8	48.67°C	230.23\
_	37.485A	5.978A	5.938A	2.000A	509.389	02.2000/	076	25.0	42.77°C	0.988
6	11.996V	5.020V	3.335V	4.953V	551.297	92.398%	876	25.0	49.88°C	230.23\
7	43.848A	6.979A	6.936A	2.231A	594.816	01.0000/	1070	32.1	43.31°C	0.990
7	11.989V	5.016V	3.332V	4.933V	647.787	91.823%	1078		51.11°C	230.23\
0	50.224A	7.985A	7.933A	2.444A	680.161	- 01 2720/	1202	3F F	43.73°C	0.993
8	11.981V	5.012V	3.328V	4.912V	745.196	91.273%	1202	35.5	52.19°C	230.23\
0	57.004A	8.489A	8.423A	2.450A	765.085	00.000/	1400	40.0	44.23°C	0.996
9	11.974V	5.008V	3.324V	4.901V	843.720	90.680%	1498	40.9	53.32°C	230.22\
10	63.519A	8.993A	8.943A	3.086A	849.909	00.0410/	1500	40.0	45.71°C	0.997
10	11.968V	5.005V	3.321V	4.862V	944.966	89.941%	1500	40.9	55.47°C	230.22\
11	70.638A	8.995A	8.949A	3.094A	934.687	90.3350/	1400	40.0	46.68°C	0.998
11	11.962V	5.004V	3.319V	4.849V	1047.556	89.225%	1499	40.9	57.43°C	230.22\
CL 1	0.117A	14.003A	13.999A	0.000A	118.584	02.66504	616	141	42.30°C	0.899
CL1	12.019V	5.025V	3.344V	5.064V	143.452	82.665%	616	14.1	48.70°C	230.24\
CLO	70.844A	0.999A	0.998A	1.000A	861.582	00 5000/	1407	41.0	45.57°C	0.997
CL2	11.974V	5.019V	3.330V	4.959V	951.397	90.560%	1497	41.0	55.55°C	230.23\

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Anex

Thermaltake Toughpower GF2 ARGB 850W

20-80	20-80W LOAD TESTS 230V										
Test#	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	PF/AC Volts		
1	1.232A	0.496A	0.491A	0.197A	19.988	50.0000/	0	<6.0	0.568		
1	12.040V	5.044V	3.358V	5.090V	33.842	59.063%	0		230.22V		
2	2.466A	0.992A	0.984A	0.394A	39.976	80.558%	0	<6.0	0.666		
2	12.032V	5.042V	3.356V	5.079V	49.624				230.22V		
2	3.704A	1.488A	1.475A	0.592A	60.006	84.970%	•	<6.0	0.769		
3	12.029V	5.041V	3.355V	5.068V	70.620		0		230.22V		
4	4.936A	1.983A	1.967A	0.791A	79.957		0	<6.0	0.831		
4	12.027V	5.040V	3.354V	5.057V	91.774	87.124%			230.21V		

RIPPLE MEASUREMENTS 230V 5VSB Pass/Fail Test **12V 5V** 3.3V 10% Load 31.60mV 7.90mV 11.20mV 4.00mV Pass 20% Load 9.90mV 8.00mV 11.60mV 3.90mV **Pass** 30% Load 7.60mV 9.00mV 11.90mV 4.10mV Pass 40% Load 8.00mV 9.00mV 12.40mV 4.40mV Pass 50% Load 12.40mV 4.90mV 8.70mV 10.00mV Pass 60% Load 10.50mV 11.30mV 12.30mV 4.80mV Pass 70% Load 11.10mV 11.50mV 13.00mV 5.00mV Pass 80% Load 11.50mV 12.80mV 14.80mV 5.20mV Pass 90% Load 12.70mV 14.60mV 14.90mV 6.30mV Pass 100% Load 16.30mV 16.50mV 7.00mV 15.80mV Pass 110% Load 19.80mV 16.00mV 17.50mV 7.30mV **Pass** Crossload1 25.20mV 17.80mV 20.60mV 14.40mV **Pass** Crossload2 15.20mV 14.10mV 16.40mV 5.80mV Pass

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Anex





Thermaltake Toughpower GF2 ARGB 850W





Aristeidis BitziopoulosLab Director

CERTIFICATIONS 230V





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