

Anex

Thermaltake Toughpower GF3 ARGB 750W

Lab ID#: TT75002155
 Receipt Date: Jan 24, 2023
 Test Date: Mar 17, 2023

Report: 23PS2155A
 Report Date: Mar 23, 2023

DUT INFORMATION

Brand	Thermaltake
Manufacturer (OEM)	High Power
Series	Toughpower GF3 ARGB
Model Number	PS-TPD-0750F4FAGE-1
Serial Number	PSTPD0750F4FAGE1SV000005
DUT Notes	

DUT SPECIFICATIONS

Rated Voltage (Vrms)	100-240
Rated Current (Arms)	10-5
Rated Frequency (Hz)	50-60
Rated Power (W)	750
Type	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 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 v3.0 PSU Power Excursion	✓

115V

Average Efficiency	89.007%
Efficiency With 10W (≤500W) or 2% (>500W)	75.096
Average Efficiency 5VSB	83.131%
Standby Power Consumption (W)	0.0748000
Average PF	0.992
Avg Noise Output	36.19 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Standard+

230V

Average Efficiency	90.801%
Average Efficiency 5VSB	82.201%
Standby Power Consumption (W)	0.1419000
Average PF	0.961
Avg Noise Output	35.02 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard+

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	62.5	3	0.3
	Watts	100		750	15	3.6
Total Max. Power (W)		750				

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

Hold-Up Time (ms)	21.1
AC Loss to PWR_OK Hold Up Time (ms)	18.8
PWR_OK Inactive to DC Loss Delay (ms)	2.3

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CABLES AND CONNECTORS

Modular Cables

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (600mm)	1	1	16-18AWG	No
4+4 pin EPS12V (650mm+155mm)	1	2	16-18AWG	No
6+2 pin PCIe (505mm+155mm)	2	4	16-18AWG	No
12+4 pin PCIe (600mm) (300W)	1	1	16-24AWG	No
SATA (510mm+155mm+155mm+155mm)	3	12	18AWG	No
4-pin Molex (505mm+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 (1380mm) - 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 MPS HF81 (Discharge IC)
Inrush Protection	NTC Thermistor & Relay
Bridge Rectifier(s)	2x HY GBU1006F (600V, 10A @ 100°C)
APFC MOSFETs	2x SI28S60F
APFC Boost Diode	1x Maplesemi MSP08065G1 (650V, 8A @ 150°C)
Bulk Cap(s)	1x Rubycon (420V, 680uF, 3,000h @ 105°C, MXK)
Main Switchers	2x SI28S60F
APFC Controller	Infineon ICE3PCS01G
Resonant Controller	Champion CU6901VAC
Topology	Primary side: APFC, Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	-
+12V MOSFETs	6x IPS 014N04SA
5V & 3.3V	DC-DC Converters: 4x Infineon BSC0906NS (30V, 40A @ 100°C, Rds(on): 4.5mOhm) PWM Controller(s): uPI uP3861P
Filtering Capacitors	Electrolytic: 1x Nichicon (4-10,000h @ 105°C, HE), 6x Rubycon (3-6,000h @ 105°C, YXG), 4x Rubycon (6-10,000h @ 105°C, ZLH) Polymer: 22x FPCAP, 2x Nippon Chemi-Con
Supervisor IC	WT7527RA (OCP, OVP, UVP, SCP, PG)
Fan Model	Thermaltake TT-1425 A1425S12S-2 (Hong Sheng) (140mm, 12V, 0.70A, Hydraulic Bearing Fan)
5VSB Circuit	-
Rectifier	1x D.G.M.E DG4N70S FET (700V, 2.5A @ 100°C, Rds(on): 3.2Ohm)
Standby PWM Controller	SI8016HSP8
-12V	-
Rectifier	1x KEC KIA7912PI (-12V, 1A)

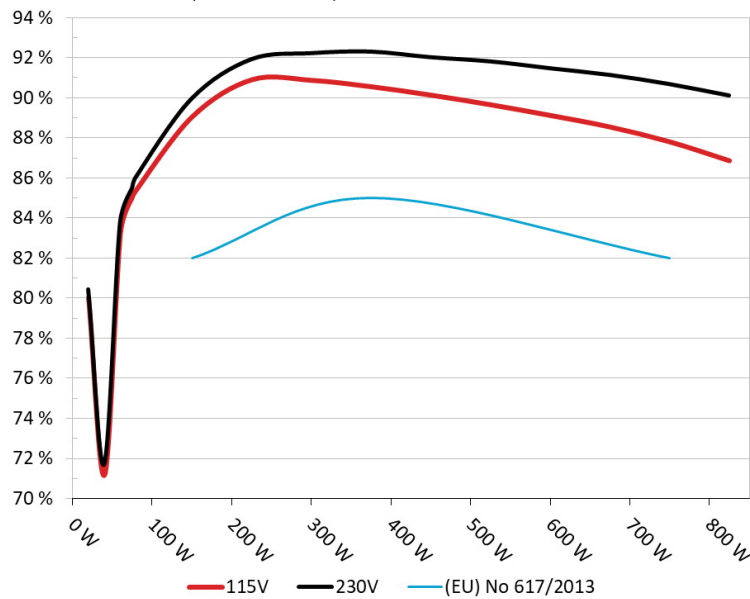
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EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

Efficiency: Thermaltake Toughpower GF3 ARGB 750W

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



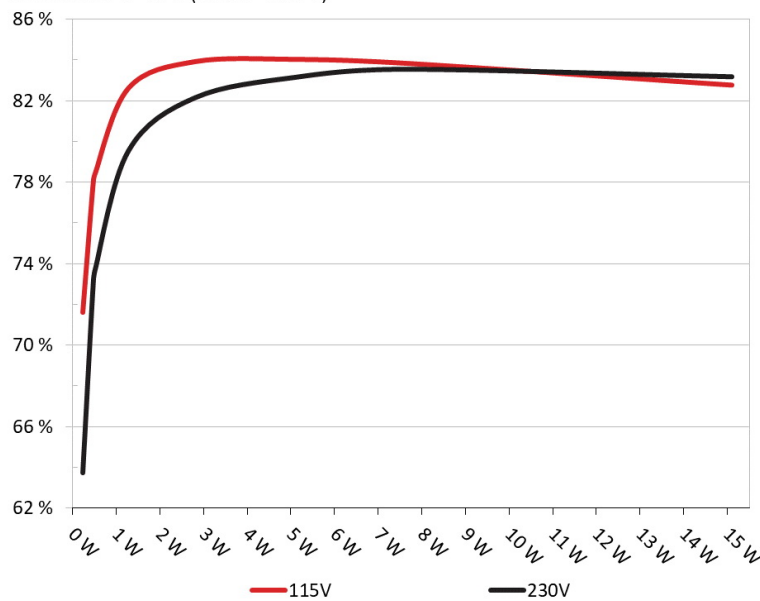
INFO

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: Thermaltake Toughpower GF3 ARGB 750W

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	71.12%	0.046
	5.109V	0.324W		115.15V
2	0.09A	0.46W	77.29%	0.084
	5.107V	0.595W		115.15V
3	0.55A	2.803W	83.435%	0.317
	5.095V	3.359W		115.15V
4	1A	5.085W	83.545%	0.404
	5.084V	6.087W		115.15V
5	1.5A	7.608W	83.354%	0.444
	5.071V	9.129W		115.15V
6	3A	15.098W	82.28%	0.498
	5.032V	18.347W		115.14V

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.23W	63.255%	0.016
	5.109V	0.364W		230.36V
2	0.09A	0.46W	72.236%	0.027
	5.107V	0.637W		230.36V
3	0.55A	2.803W	81.65%	0.136
	5.095V	3.434W		230.36V
4	1A	5.085W	82.648%	0.216
	5.084V	6.153W		230.36V
5	1.5A	7.609W	83.044%	0.277
	5.071V	9.163W		230.36V
6	3A	15.102W	82.676%	0.369
	5.034V	18.266W		230.36V

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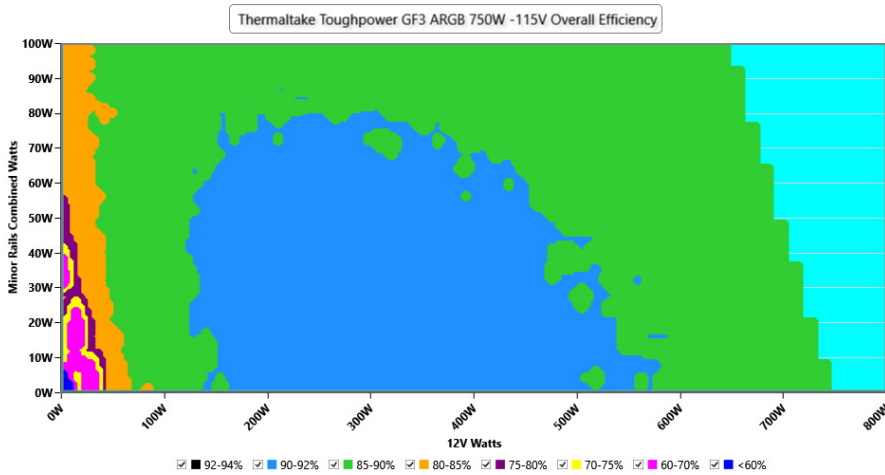
115V

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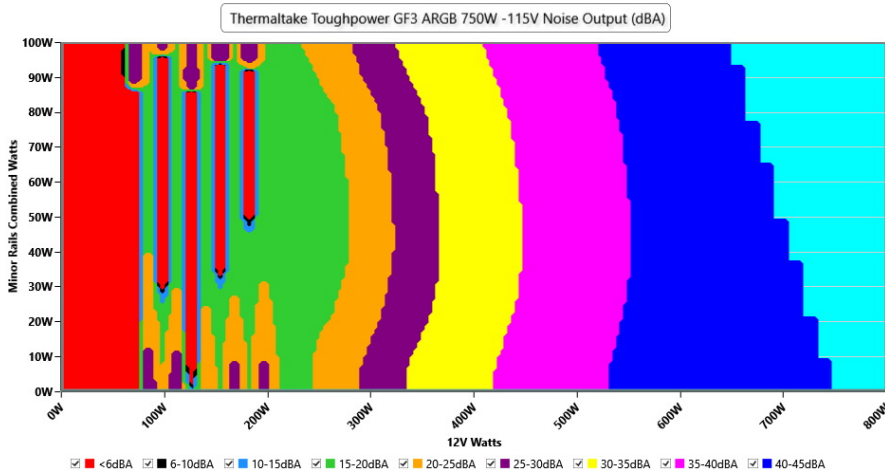
EFFICIENCY GRAPH 115V



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:	115.13 V	115.11 V	113.85 V	115.15 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	60.00 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:	0.075 W	0.068 W	N/A	0.081 W	N/A	N/A
Apparent Power:	6.911 W	6.900 W	N/A	6.919 W	N/A	N/A
Power Factor:	0.011	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%	4.398A	1.994A	1.999A	0.984A	75.004	85.046%	1012	30.9	39.84°C	0.971
	12.141V	5.017V	3.301V	5.081V	88.196				44.33°C	115.15V
20%	9.821A	2.992A	2.999A	1.185A	149.974	89.036%	932	27.4	40.4°C	0.989
	12.123V	5.014V	3.302V	5.067V	168.427				45.19°C	115.14V
30%	15.617A	3.494A	3.501A	1.386A	224.984	90.891%	1059	31.9	41.42°C	0.995
	12.097V	5.011V	3.3V	5.054V	247.524				46.55°C	115.12V
40%	21.417A	3.996A	4.003A	1.588A	300.08	90.862%	1210	35.6	42.05°C	0.995
	12.087V	5.006V	3.298V	5.04V	330.294				47.69°C	115.08V
50%	26.835A	5.001A	5.008A	1.791A	374.638	90.546%	1391	38.9	42.14°C	0.995
	12.078V	5.001V	3.295V	5.027V	413.765				48.29°C	115.06V
60%	32.290A	6.007A	6.013A	1.995A	449.531	90.124%	1492	41.1	43.17°C	0.995
	12.069V	4.996V	3.293V	5.013V	498.789				49.76°C	115.03V
70%	37.753A	7.015A	7.019A	2.201A	524.393	89.647%	1553	41.7	43.38°C	0.996
	12.060V	4.991V	3.291V	4.999V	584.951				50.47°C	115.02V
80%	43.290A	8.003A	8.026A	2.306A	599.46	89.113%	1557	41.7	44.8°C	0.996
	12.051V	4.985V	3.288V	4.987V	672.676				53.01°C	114.98V
90%	49.154A	8.537A	8.523A	2.411A	674.576	88.535%	1559	41.8	45.93°C	0.996
	12.046V	4.978V	3.284V	4.977V	761.996				55.01°C	114.96V
100%	54.836A	9.051A	9.05A	3.029A	749.802	87.794%	1556	41.7	46.43°C	0.997
	12.038V	4.972V	3.281V	4.952V	854.037				56.47°C	114.95V
110%	60.394A	10.072A	10.16A	3.035A	824.838	86.85%	1556	41.7	46.76°C	0.997
	12.030V	4.964V	3.277V	4.942V	949.791				57.68°C	114.93V
CL1	0.115A	12.054A	12.063A	0A	101.281	81.258%	1515	41.1	43.04°C	0.983
	12.124V	4.993V	3.29V	5.087V	124.649				48.48°C	115.14V
CL2	0.115A	20.036A	0A	0A	101.383	80.156%	1274	36.7	40.79°C	0.984
	12.126V	4.99V	3.289V	5.099V	126.518				47.85°C	115.14V
CL3	0.115A	0A	20.054A	0A	67.378	74.027%	1122	33.0	39.44°C	0.972
	12.121V	5.001V	3.291V	5.083V	91.012				48.51°C	115.15V
CL4	62.209A	0A	0A	0A	749.795	88.33%	1554	41.7	46.28°C	0.996
	12.053V	4.984V	3.284V	5.053V	849.033				57.18°C	114.94V

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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	1.232A	0.498A	0.499A	0.196A	20.002	80.016%	0	<6.0	39.76°C	0.838
	12.056V	5.023V	3.303V	5.108V	25.004				36.71°C	115.16V
40W	2.690A	0.697A	0.699A	0.294A	40	71.171%	0	<6.0	40.99°C	0.947
	12.150V	5.021V	3.302V	5.103V	56.188				37.68°C	115.16V
60W	4.159A	0.897A	0.9A	0.392A	59.999	83.253%	1029	31.3	38.33°C	0.963
	12.148V	5.019V	3.301V	5.099V	72.079				42.12°C	115.16V
80W	5.632A	1.096A	1.099A	0.491A	79.971	85.393%	786	21.6	39.24°C	0.973
	12.134V	5.019V	3.304V	5.095V	93.657				43.23°C	115.15V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	12.41mV	3.99mV	4.30mV	5.40mV	Pass
20% Load	24.11mV	4.60mV	4.81mV	5.35mV	Pass
30% Load	15.92mV	4.81mV	4.71mV	5.35mV	Pass
40% Load	12.65mV	4.75mV	4.50mV	5.76mV	Pass
50% Load	11.63mV	8.23mV	9.06mV	5.56mV	Pass
60% Load	10.20mV	5.27mV	4.91mV	6.06mV	Pass
70% Load	9.99mV	5.47mV	5.17mV	6.73mV	Pass
80% Load	9.99mV	5.93mV	10.54mV	7.65mV	Pass
90% Load	26.36mV	13.04mV	17.91mV	20.65mV	Pass
100% Load	17.55mV	8.24mV	14.28mV	13.24mV	Pass
110% Load	20.20mV	9.05mV	13.53mV	15.75mV	Pass
Crossload1	7.20mV	5.86mV	11.54mV	11.40mV	Pass
Crossload2	7.71mV	5.73mV	5.27mV	9.53mV	Pass
Crossload3	6.13mV	4.60mV	12.44mV	11.22mV	Pass
Crossload4	16.96mV	7.10mV	8.67mV	15.15mV	Pass

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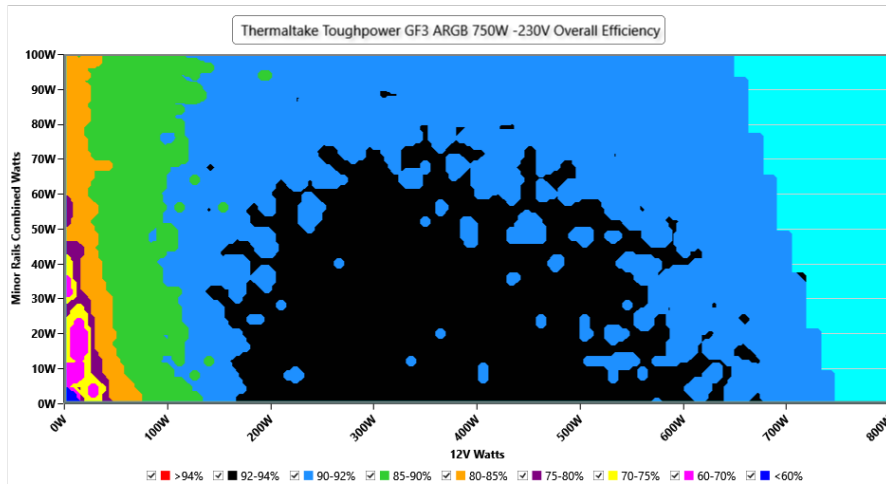
230V

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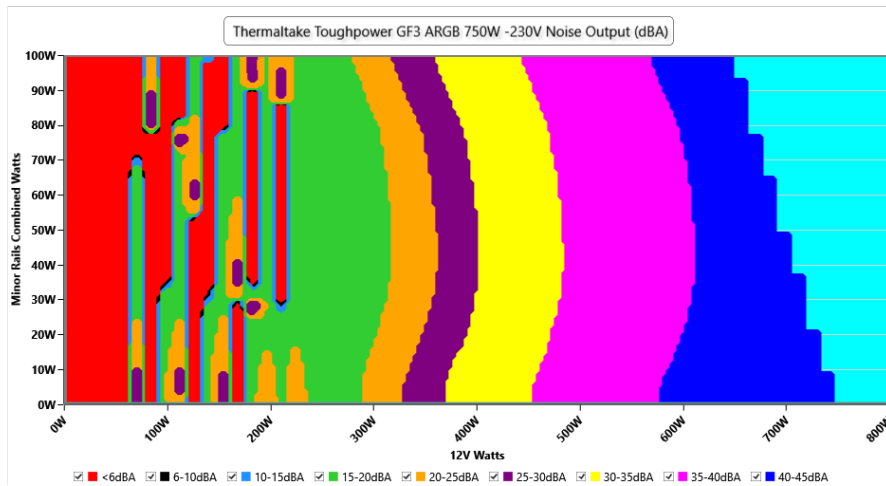
EFFICIENCY GRAPH 230V



INFO

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NOISE GRAPH 230V



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VAMPIRE POWER -230V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.35 V	230.32 V	227.70 V	230.36 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:	0.142 W	0.128 W	N/A	0.164 W	N/A	N/A
Apparent Power:	23.139 W	23.122 W	N/A	23.154 W	N/A	N/A
Power Factor:	0.006	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%	4.399A	1.994A	1.999A	0.984A	75.006	85.5%	1021	31.1	40.03°C	0.829
	12.140V	5.018V	3.302V	5.08V	87.773				44.38°C	230.4V
20%	9.823A	2.992A	2.999A	1.185A	149.975	89.969%	1008	30.8	40.69°C	0.929
	12.122V	5.015V	3.302V	5.066V	166.69				45.49°C	230.39V
30%	15.620A	3.494A	3.501A	1.386A	224.988	91.935%	1083	32.0	41.07°C	0.963
	12.095V	5.011V	3.3V	5.053V	244.754				46.27°C	230.39V
40%	21.442A	3.996A	4.002A	1.588A	300.084	92.238%	1182	34.9	41.19°C	0.976
	12.073V	5.007V	3.299V	5.04V	325.301				46.78°C	230.38V
50%	26.842A	5A	5.007A	1.791A	374.668	92.314%	1354	39.0	42.31°C	0.983
	12.076V	5.002V	3.296V	5.026V	405.876				48.25°C	230.38V
60%	32.304A	6.006A	6.013A	1.996A	449.617	92.037%	1478	41.0	42.5°C	0.985
	12.066V	4.997V	3.294V	5.012V	488.498				49.16°C	230.38V
70%	37.769A	7.015A	7.021A	2.202A	524.539	91.829%	1559	42.1	42.9°C	0.989
	12.058V	4.991V	3.291V	4.997V	571.252				49.97°C	230.36V
80%	43.313A	8.004A	8.028A	2.307A	599.645	91.486%	1561	41.8	43.34°C	0.992
	12.048V	4.985V	3.288V	4.985V	655.429				51.38°C	230.35V
90%	49.191A	8.538A	8.524A	2.413A	674.79	91.153%	1562	41.8	45.44°C	0.993
	12.040V	4.978V	3.285V	4.975V	740.454				54.46°C	230.34V
100%	54.882A	9.052A	9.051A	3.031A	750.014	90.695%	1563	41.8	45.75°C	0.995
	12.031V	4.972V	3.281V	4.95V	826.932				55.78°C	230.33V
110%	60.445A	10.073A	10.16A	3.036A	825.044	90.123%	1561	41.8	46.57°C	0.996
	12.023V	4.964V	3.277V	4.941V	915.483				57.51°C	230.32V
CL1	0.116A	12.055A	12.063A	0A	101.302	81.909%	1499	40.9	43.83°C	0.892
	12.109V	4.994V	3.291V	5.086V	123.68				49.31°C	230.4V
CL2	0.115A	20.039A	0A	0A	101.396	80.657%	1283	36.9	41.92°C	0.89
	12.112V	4.99V	3.288V	5.099V	125.739				48.97°C	230.4V
CL3	0.115A	0A	20.053A	0A	67.388	74.551%	1131	33.3	40.57°C	0.84
	12.107V	5.001V	3.291V	5.083V	90.387				49.58°C	230.39V
CL4	62.294A	0A	0A	0A	749.978	91.276%	1560	41.8	45.83°C	0.986
	12.039V	4.984V	3.285V	5.052V	821.659				56.74°C	230.34V

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Anex

Thermaltake Toughpower GF3 ARGB 750W

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	0.498A	0.5A	0.196A	20.003	80.438%	0	<6.0	39.72°C	0.504
	12.064V	5.023V	3.303V	5.108V	24.968				36.63°C	230.39V
40W	2.691A	0.697A	0.699A	0.294A	40.001	71.705%	0	<6.0	40.48°C	0.711
	12.146V	5.021V	3.302V	5.103V	55.821				37.14°C	230.39V
60W	4.159A	0.897A	0.9A	0.392A	60	83.779%	964	28.6	38.69°C	0.787
	12.147V	5.02V	3.302V	5.099V	71.625				42.16°C	230.39V
80W	5.632A	1.096A	1.099A	0.491A	79.97	86.06%	812	22.8	39.36°C	0.844
	12.133V	5.02V	3.304V	5.095V	92.92				43.19°C	230.39V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	13.03mV	3.94mV	4.10mV	5.10mV	Pass
20% Load	23.65mV	4.50mV	4.40mV	5.51mV	Pass
30% Load	15.87mV	4.81mV	4.61mV	6.27mV	Pass
40% Load	11.99mV	4.60mV	4.40mV	6.37mV	Pass
50% Load	11.22mV	7.98mV	9.01mV	5.91mV	Pass
60% Load	9.79mV	5.22mV	4.76mV	5.66mV	Pass
70% Load	10.10mV	5.47mV	4.96mV	6.73mV	Pass
80% Load	9.59mV	5.63mV	9.26mV	7.03mV	Pass
90% Load	9.33mV	5.98mV	9.47mV	6.83mV	Pass
100% Load	14.77mV	7.43mV	10.25mV	8.71mV	Pass
110% Load	14.22mV	7.25mV	10.62mV	7.84mV	Pass
Crossload1	7.82mV	6.45mV	11.50mV	12.04mV	Pass
Crossload2	7.92mV	5.47mV	4.97mV	9.74mV	Pass
Crossload3	5.82mV	4.40mV	12.34mV	11.47mV	Pass
Crossload4	13.31mV	6.51mV	5.09mV	12.09mV	Pass

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Anex

Thermaltake Toughpower GF3 ARGB 750W



Top side



Power specifications label

CERTIFICATIONS 115V



Aristeidis Bitziopoulos
Lab Director

CERTIFICATIONS 230V



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