Gamer Storm PL750D

10000142981B4241500001

Lab ID GA75002432

Certification ID 252432

Test Result Report ID: 24PS2432A

Certificate Issue Date: Sep 16, 2024

Scheme: ETA-EMI PSU

115V



230V



Scheme: LAMBDA PSU

115V



230V





Outside Validation Scope



General Information

Test Equipment

Electronic Loads	Chroma 63601-5 x2 Chroma 63600-2 Chroma 63640-80-80 x10 Chroma 63610-80-20
AC Sources	Chroma 6530, APM SP300VAC4000W-P, GW Instek ASR-3500
Power Analyzers	Rohde & Schwarz HMC8015 & NPA701
Oscilloscopes	Picoscope 4444, 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
EMI Analyzer	TekBox TBMR-110M-EU
Isolation Transformer	4kVA
UPS	FSP Champ Tower 3kVA, CyberPower OLS3000E 3kVA
Testing Methodology	Cybenetics PSU Test Protocol

DUT Information
(Non-accredited measurements)

Product Identification Details	
Brand	Gamer Storm
Model	PL750D
OEM/ODM	Helly Technology
Serial Number	10000142981B4241500001
Product Specifications	
Manufacturer-Provided Information	
□□□□ (Vrms)	100-240

□□□□ (Arms)	10-5
□□□□ (Hz)	50-60
□□□□ (W)	750
Operating Temperature (Continuous Full Load) (°C)	
□□	ATX12V
□□□□	Fixed cables
Warranty	-
Cybenetics Measurements	
Dimensions (W x H x D)	
Weight	
□□	120mm Hydraulic Bearing Fan (W12025HZ12SEMA)
□□□□□	✗
Cybenetics Testing Information	
Lab ID	GA75002432
Date of receipt	Aug 14, 2024
Testing Date	Aug 29, 2024
Report Issued Date	Sep 16, 2024
Engineer Name	-
Authorized By the Laboratory Technical Manager	Aristeidis Bitziopoulos
Signature	

□□□□□
(Non-accredited measurements)

□□□□				
□□	□□□□	□□□□□□	Gauge	In Cable Capacitors
ATX □□ 20+4 pin (560mm)	1	1	18-22AWG	□
4+4 pin EPS 12V □□ (735mm)	2	2	18AWG	□
6+2pin PCIe□□ (590mm+120mm)	1	2	18AWG	□
6+2pin PCIe□□ (580mm)	1	1	18AWG	□
12+2 pin PCIe (590mm) (600W)	1	1	16-26AWG	□

SATA□□ (445mm+105mm+105mm+105mm) / 4-pin Molex (+100mm)	2	8 / 2	18AWG	□
□□□□□				
AC Power Cord (1385mm) - C13 coupler	1	1	18AWG	-

Protection Features

Over Power Protection	✓
Over Current (+12V) Protection	✓
Over Temperature Protection	✓
Short Circuit Protection	✓
Surge Protection	✓
Inrush Current Protection	✓
Fan Failure Protection	✗

□□□□

□		3.3V	5V	12V	5VSB	-12V
□□□□	□□	20	20	62.5	3	0.3
	□	100		750	15	3.6
□□□□□ (W)		750				

Parts Description

General Data	
Manufacturer (OEM)	Helly Technology
PCB Type	Double-Sided
Primary Side	
Transient Filter	2x Y caps, 1x X caps, 2x CM chokes, 1x MOV
Inrush Protection	1x NTC Thermistor MF72 10D-15 (10 Ohm @25°C) & Relay
Bridge Rectifier(s)	2x GBU1508 ((560V, 15A @ 100°C)
APFC MOSFETs	2x PTA28N50 (500V, 18A @ 100°C, Rds(on): 0.21Ohm)
APFC Boost Diode	1x WeEN BYC15X-600P (600V, 10A @ 25°C)
Bulk Cap(s)	1x Chengx (420V, 470uF @ 105°C, LS)
Main Switchers	2x PTA28N50 (500V, 18A @ 100°C, Rds(on): 0.21Ohm)

PFC/PWM Controller	Champion CM6800UX
Topology	Primary side: APFC, Double Forward Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	3x Oriental Semiconductor SFS06R03PF (60V, 160A @ 25°C, Rds(on): 3.5mOhm)
5V & 3.3V	DC-DC Converters: 2x XSEMI XP3NA3R4MT (30V, 46A @ 100°C, Rds(on): 3.4mOhm) 2x Rectron Semiconductor 3N5R0 (30V, 19.7A @ @ 70°C, Rds(on): 5mOhm) PWM Controller(s): 2x ANPEC APW7073
Filtering Capacitors	Electrolytic: 10x Chengx (2-3,000 @ 105°C,GR), Polymer: 9x Apaq
Supervisor IC	Infinno IN1S429I-SCG (OCP, OVP, UVP, SCP, PG)
Fan Model	WAM W12025HZ12SEMA (120mm, 12V, 0.25A, Hydraulic Bearing Fan)
5VSB	
High Side Rectifier	P6SMB (220V , 1A)
Standby PWM Controller	Excelliance MOS EM8564A

Test Results

Temperature & Compliance Info

□□□□ (°C /°F)	28-32 / 82.4-89.6
□□ ErP Lot3/6□□	✓
□□ (EU) No 617/2013□□	✓
ALPM (Alternative Low Power Mode) compatible	✓
ATX v3.1 PSU Power Excursion	✓

Performance Summary

115V

Accredited	
□□□□ (>1450 load combinations)	85.834%
Average Noise Output (>1450 Load Combinations)	33.59dBA

PF□□□ (>1450 Load Combinations)	0.985
Efficiency With 10W (≤500W) or 2% (>500W) Load	60.353%
□□□□□□	0.0378W
Non-Accredited	
12V Ripple (Full Load)	37.82mV
5V Ripple (Full Load)	18.44mV
3.3V Ripple (Full Load)	17.56mV
5VSB Ripple (Full Load)	17.05mV
12V Load Regulation	0.59%
5V Load Regulation	0.49%
3.3V Load Regulation	1.52%
5VSB Load Regulation	3.24%
Inrush Current	16.840A

230V

Accredited	
□□□□ (>1450 load combinations)	88.408%
Average Noise Output (>1450 Load Combinations)	34.69dBA
PF□□□ (>1450 Load Combinations)	0.941
Efficiency With 10W (≤500W) or 2% (>500W) Load	59.937%
□□□□□□	0.0936W
Non-Accredited	
12V Ripple (Full Load)	35.70mV
5V Ripple (Full Load)	18.08mV
3.3V Ripple (Full Load)	17.42mV
5VSB Ripple (Full Load)	14.73mV
12V Load Regulation	0.60%
5V Load Regulation	0.49%
3.3V Load Regulation	1.61%
5VSB Load Regulation	3.26%
Inrush Current	32.920A
12V Transient Response (200%)	11.36V

5V Transient Response (200%)		5.042V
3.3V Transient Response (200%)		3.229V
5VSB Transient Response (200%)		4.930V
□□□□ & PG□□		18.20ms
AC Loss to PWR_OK Hold Up Time		17.10ms
PWR_OK Inactive to DC Loss Delay		1.10ms
PSU Timings: T1 (20% / 100%)	26.0ms	26.0ms
PSU Timings: T3 (20% / 100%)	113.0ms	113.0ms
OPP (28.22°C / 41.24°C)	126.45%	118.18%

□□□□ & PG□□

Hold-Up Time (ms)	18.2
AC Loss to PWR_OK Hold Up Time (ms)	17.1
PWR_OK Inactive to DC Loss Delay (ms)	1.1

□□□□

Tables

115V

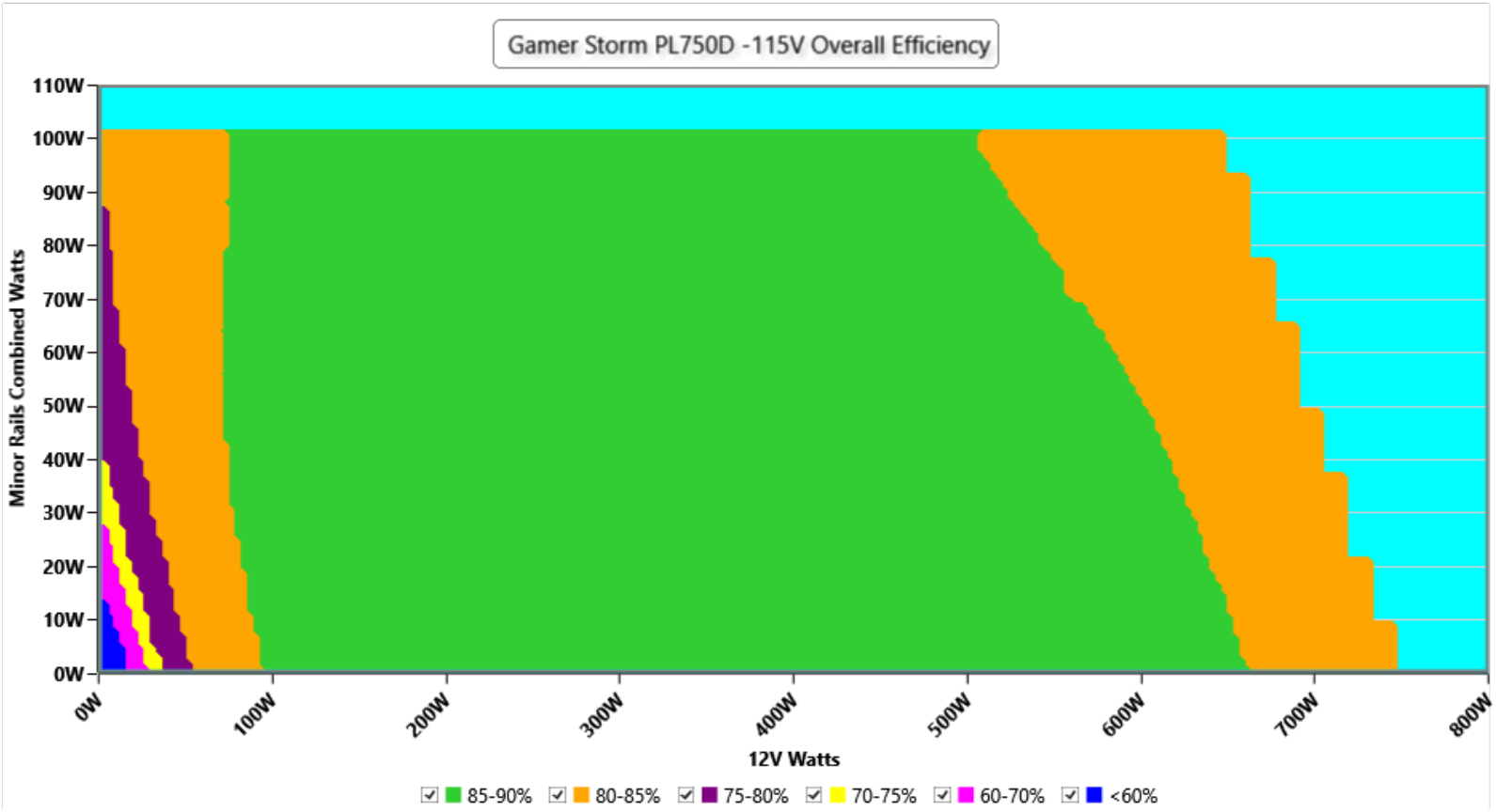
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.13 V	115.12 V	113.85 V	115.16 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.415	1.415	1.340	1.416	1.490	PASS
Mains Voltage THD:	0.13 %	0.11 %	N/A	0.15 %	2.00 %	PASS
Real Power:	0.038 W	0.007 W	N/A	0.047 W	N/A	N/A
Apparent Power:	8.527 W	8.519 W	N/A	8.532 W	N/A	N/A
Power Factor:	0.005	N/A	N/A	N/A	N/A	N/A

230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.36 V	230.34 V	227.70 V	230.38 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:	0.094 W	0.079 W	N/A	0.119 W	N/A	N/A
Apparent Power:	28.559 W	28.541 W	N/A	28.574 W	N/A	N/A
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A

□□□□□□

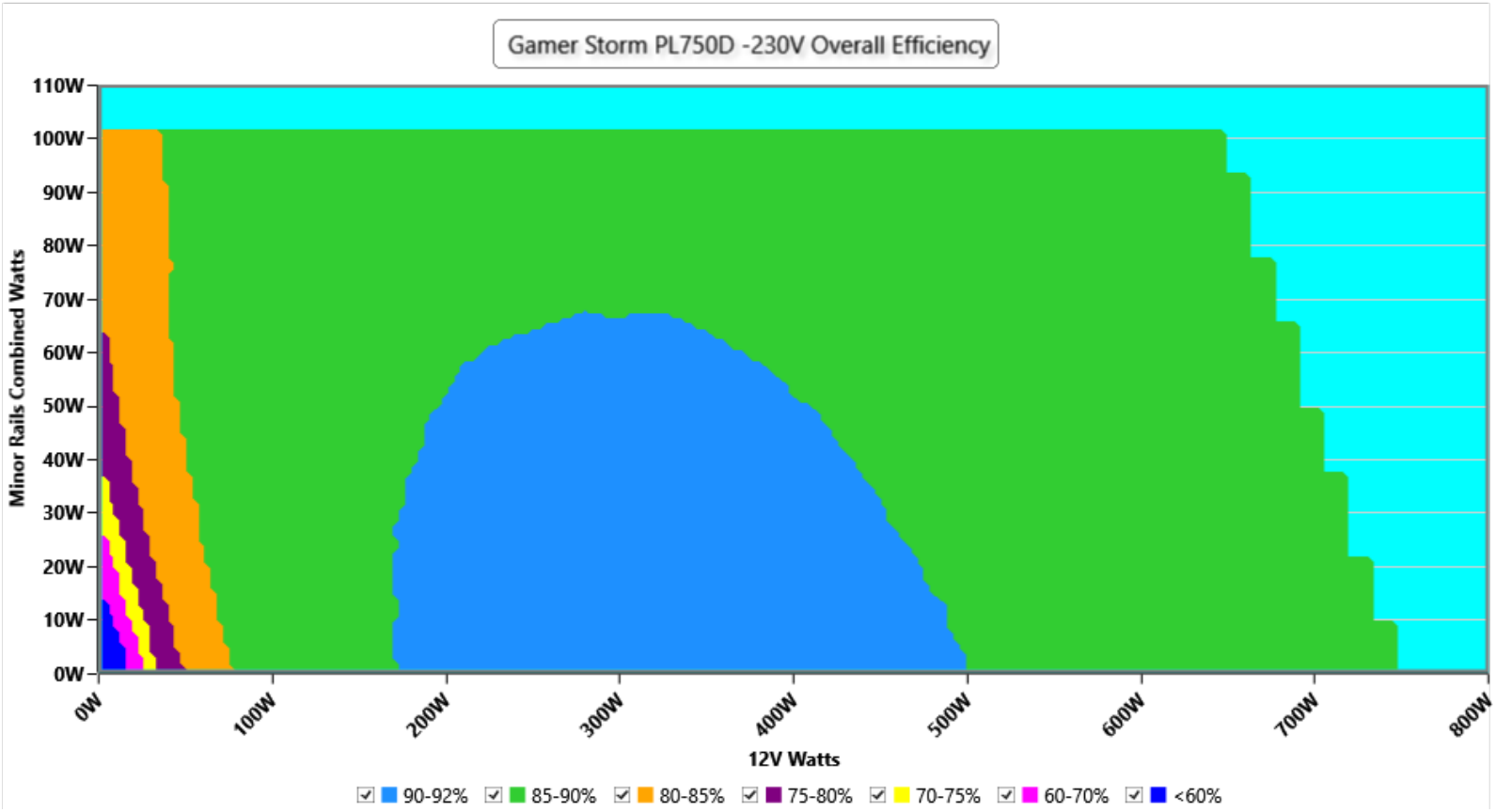
115V



□□

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

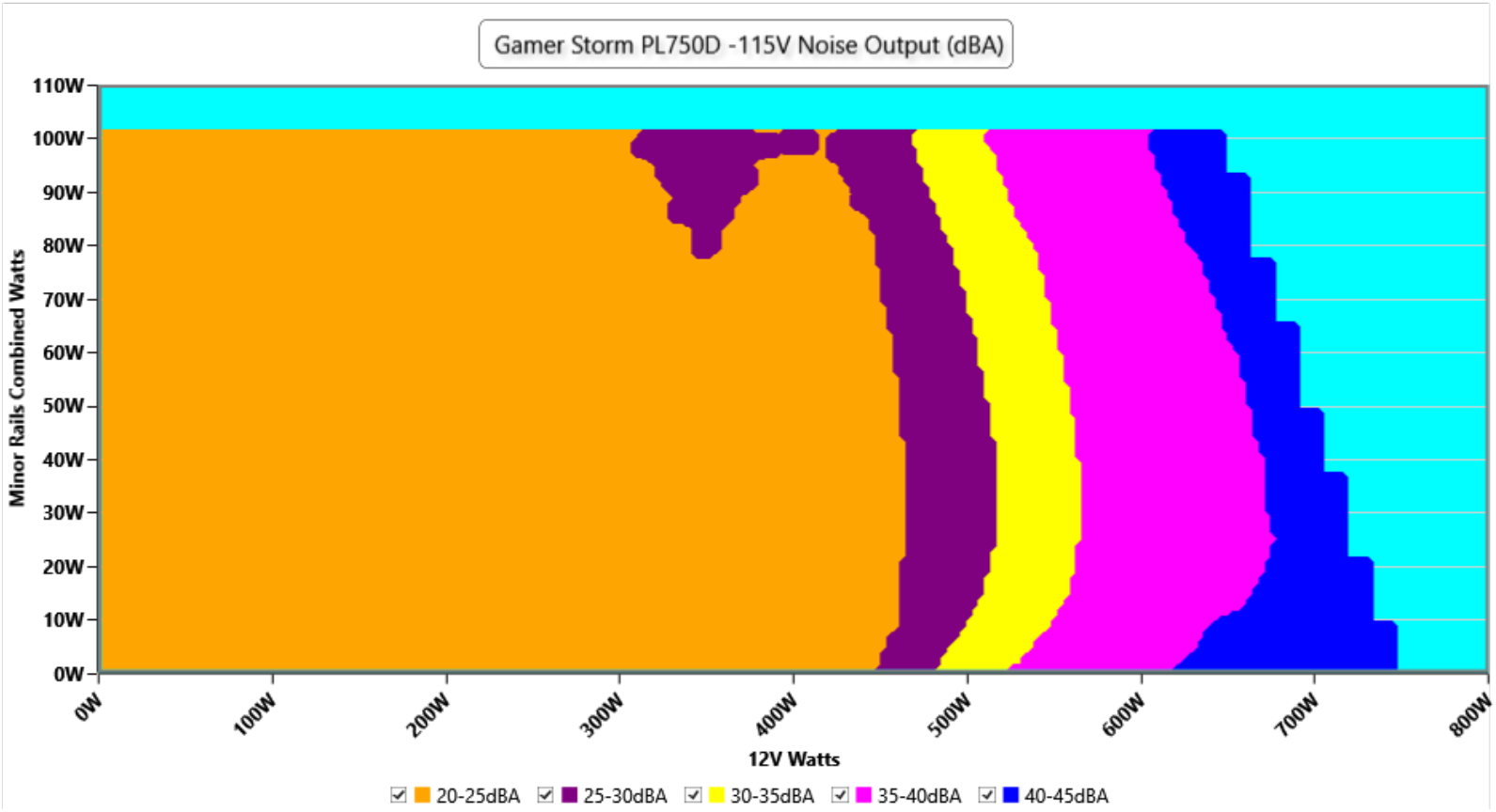
230V



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□□□□□

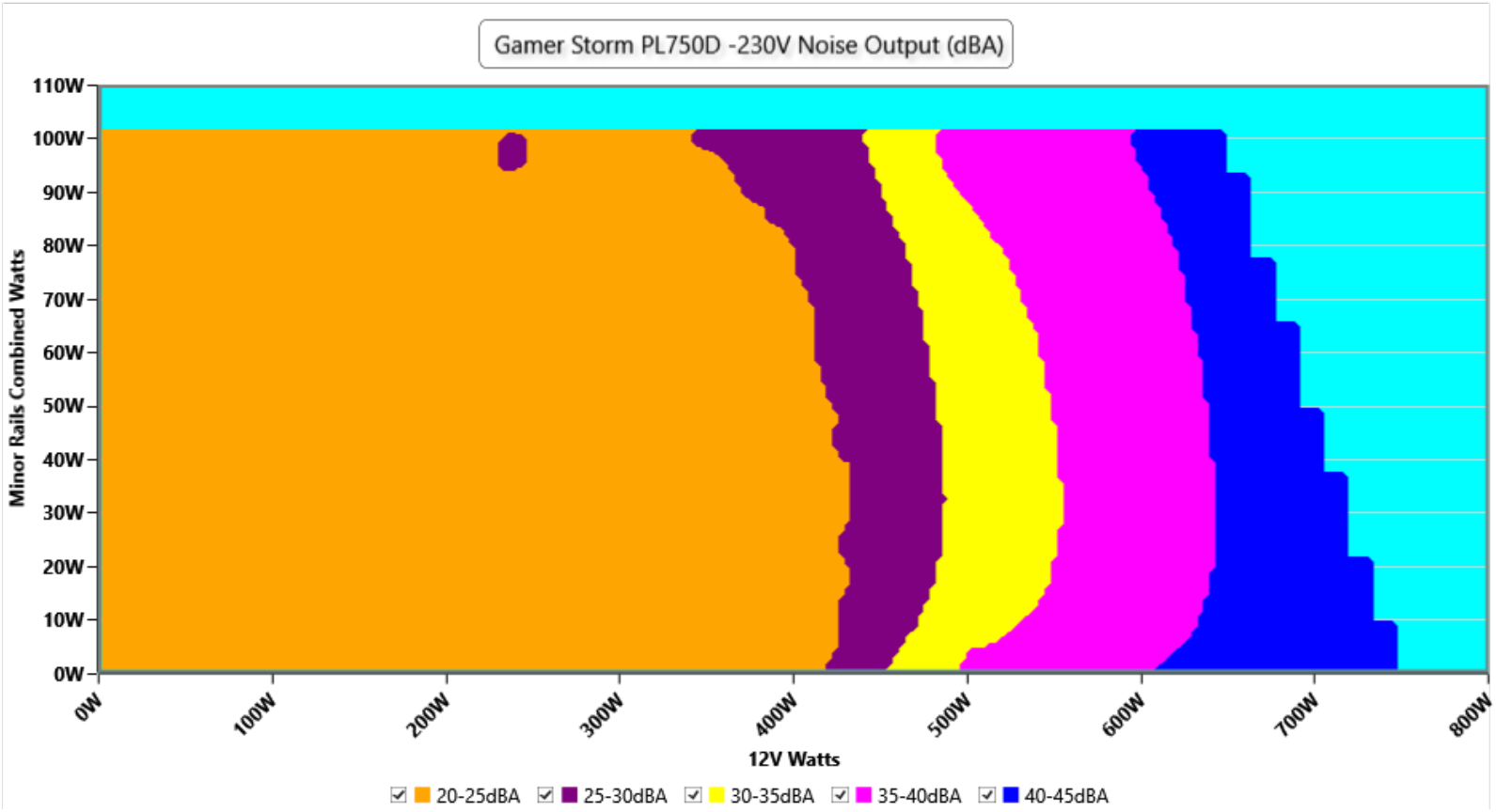
115V



□□

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

230V



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

Noise under high ambient temperature (indicative)

115V

Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	1093 RPM · 25.9 dB(A) · 40.3 °C	1093 RPM · 25.9 dB(A) · 40.3 °C	**+0.0 dB(A)**
20%	1096 RPM · 25.9 dB(A) · 40.6 °C	1096 RPM · 25.9 dB(A) · 40.6 °C	**+0.0 dB(A)**
50%	1108 RPM · 26.5 dB(A) · 42.4 °C	1108 RPM · 26.5 dB(A) · 42.4 °C	**+0.0 dB(A)**
100%	2108 RPM · 44.5 dB(A) · 45.4 °C	2108 RPM · 44.5 dB(A) · 45.4 °C	**+0.0 dB(A)**

230V

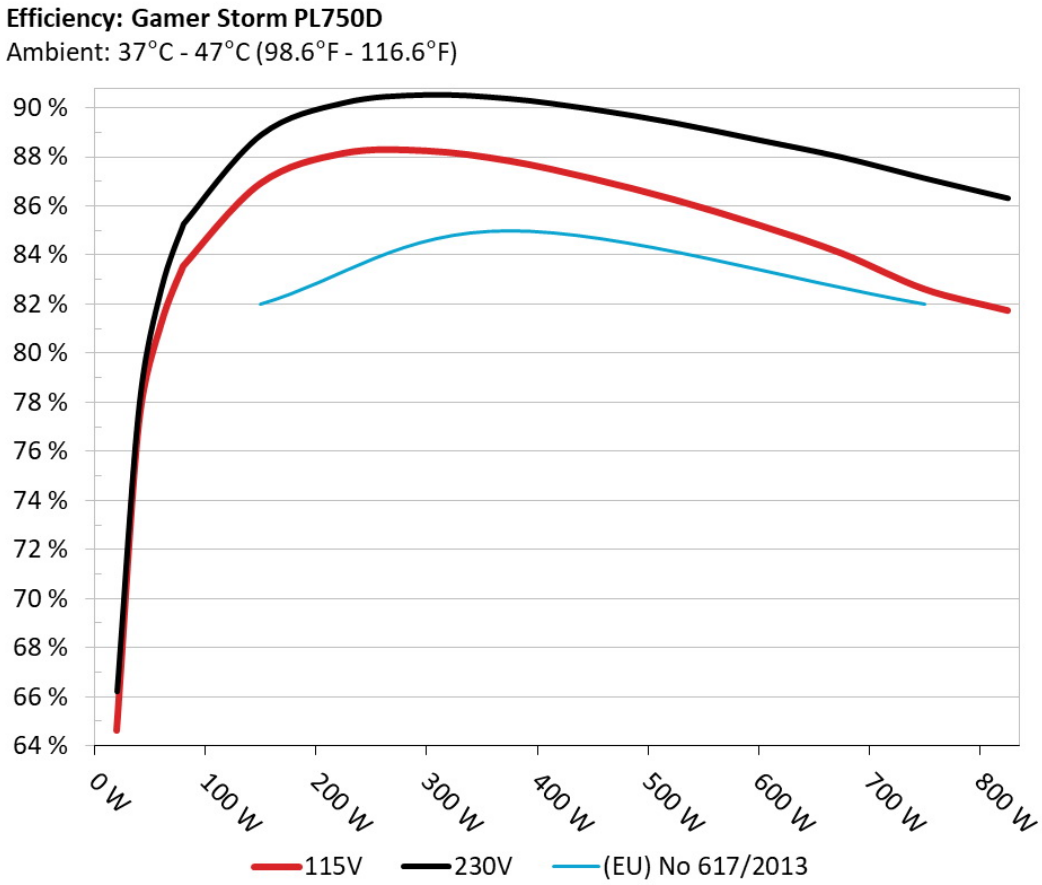
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	1084 RPM · 25.6 dB(A) · 40.2 °C	1084 RPM · 25.6 dB(A) · 40.2 °C	**+0.0 dB(A)**
20%	1090 RPM · 25.8 dB(A) · 40.9 °C	1090 RPM · 25.8 dB(A) · 40.9 °C	**+0.0 dB(A)**
50%	1099 RPM · 26.1 dB(A) · 42.1 °C	1099 RPM · 26.1 dB(A) · 42.1 °C	**+0.0 dB(A)**
100%	2107 RPM · 44.5 dB(A) · 45.5 °C	2107 RPM · 44.5 dB(A) · 45.5 °C	**+0.0 dB(A)**

INFO

Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative of how the fan behaves when it is hot. "<6.0" is the floor of our sound meter: the fan is stopped or too quiet to measure (the fan speed column says which); with the fan stopped, the intake sensor can read higher than the chamber air.

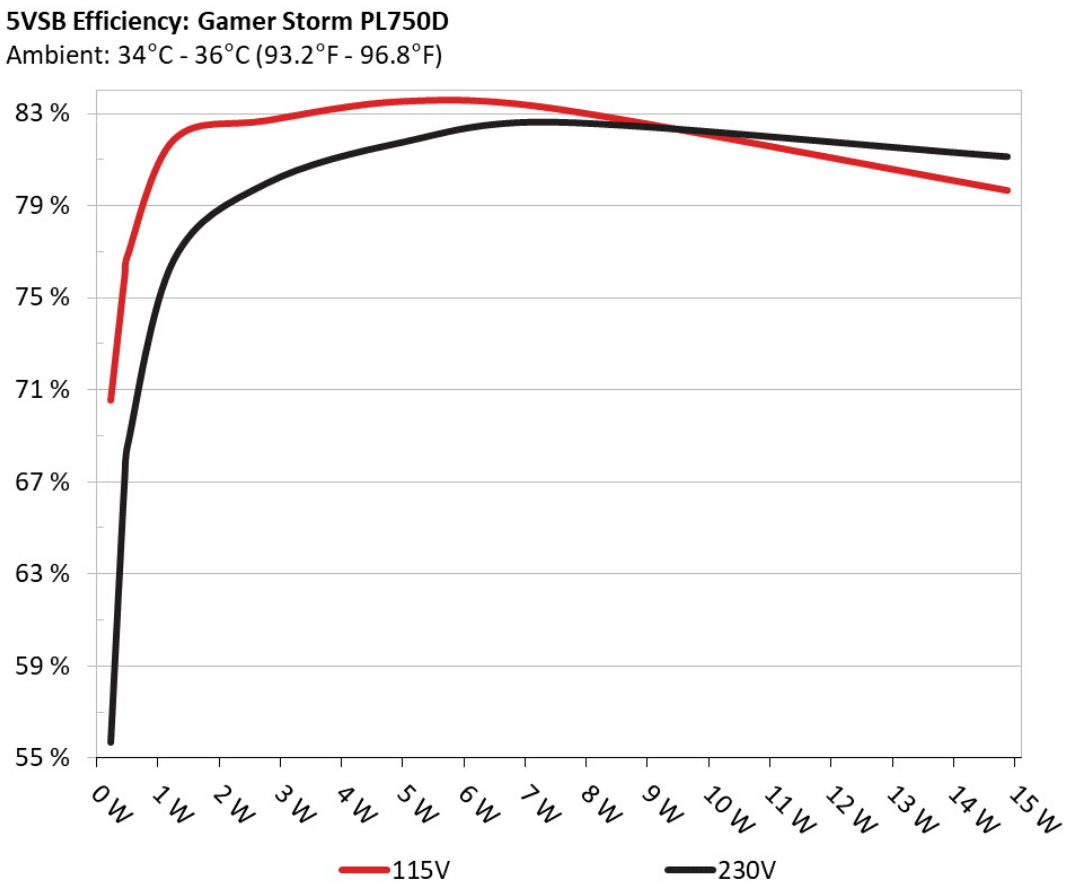
Informational. Not part of the ETA or LAMBDA rating.

Indicative Performance



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□□□□



□□

This graph depicts the efficiency levels of the 5VSB rail with 115V and 230V input

□□□□ □□ 5Vsb □□ (ErP Lot3/6 & CEC)

115V

□□ #	5VSB	DC/AC (□)	□□	PF/AC □□
1	0.045A	0.227W	70.557%	0.037
	5.044V	0.322W		115.15V
2	0.09A	0.454W	75.93%	0.069
	5.043V	0.598W		115.15V
3	0.55A	2.767W	82.693%	0.298
	5.029V	3.346W		115.15V
4	1A	5.018W	83.532%	0.404
	5.017V	6.007W		115.14V
5	1.5A	7.506W	83.202%	0.458
	5.002V	9.021W		115.15V
6	3A	14.88W	79.665%	0.523
	4.96V	18.678W		115.15V

230V

□□ #	5VSB	DC/AC (□)	□□	PF/AC □□
1	0.045A	0.227W	55.698%	0.014
	5.044V	0.408W		230.34V
2	0.09A	0.454W	67.178%	0.024
	5.043V	0.676W		230.36V
3	0.55A	2.767W	79.979%	0.115
	5.029V	3.46W		230.38V
4	1A	5.018W	81.788%	0.19
	5.016V	6.134W		230.39V
5	1.5A	7.506W	82.646%	0.255
	5.002V	9.083W		230.39V
6	3.001A	14.881W	81.146%	0.371
	4.959V	18.335W		230.39V

Protection Features

Protection Features	
OCP (Cold @ 28°C)	12V: 78.8A (126.08%), 11.986V 5V: 30.5A (152.5%), 5.06V 3.3V: 29.4A (147%), 3.303V 5VSB: 3.9A (130%), 4.931V
OCP (Hot @ 42°C)	12V: 74.8A (119.68%), 11.99V 5V: 29.5A (147.5%), 5.059V 3.3V: 28.5A (142.5%), 3.298V 5VSB: 3.9A (130%), 4.929V
OPP (Cold @ 28°C)	948.39W (126.45%)
OPP (Hot @ 41°C)	886.34W (118.18%)
OTP	✓ (108°C @ +12V heat sink)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓ -12V to Earth: ✓
PWR_OK	Proper operation
NLO	✓
Fan Failure Protection	✗
SIP	Surge: MOV Inrush: NTC Thermistor & Bypass relay

Supplementary Tests (For Reference)

10-110%□□□□

115V

□□	12V	5V	3.3V	5VSB	DC/AC (□)	□□	□□□□ (RPM)	□□□□□□□ (dB[A])	□□ (□□ /□□)	PF/AC □□
10%	4.437A	1.963A	1.98A	0.998A	75.004	82.448%	1093	25.9	40.26°C	0.945
	12.036V	5.096V	3.334V	5.009V	90.97				44.45°C	115.14V
20%	9.898A	2.946A	2.975A	1.201A	149.968	86.932%	1096	25.9	40.63°C	0.971
	12.029V	5.094V	3.328V	4.996V	172.513				45.17°C	115.12V
30%	15.713A	3.438A	3.474A	1.405A	224.972	88.162%	1099	26.1	41.07°C	0.983
	12.022V	5.092V	3.325V	4.984V	255.18				46.08°C	115.1V
40%	21.542A	3.93A	3.975A	1.61A	300.056	88.261%	1101	26.1	41.72°C	0.988
	12.016V	5.09V	3.321V	4.971V	339.962				47.23°C	115.08V
50%	26.987A	4.915A	4.977A	1.816A	374.592	87.852%	1108	26.5	42.35°C	0.991
	12.009V	5.087V	3.316V	4.957V	426.393				48.39°C	115.06V
60%	32.471A	5.902A	5.983A	2A	449.411	87.128%	1321	31.2	42.75°C	0.993
	12.001V	5.084V	3.31V	4.944V	515.807				49.27°C	115.04V
70%	37.968A	6.891A	6.992A	2.232A	524.501	86.258%	1691	39.5	43.16°C	0.994
	11.994V	5.081V	3.304V	4.929V	608.068				50.2°C	115.02V
80%	43.537A	7.878A	8.004A	2.339A	599.733	85.239%	1959	43.3	43.83°C	0.994
	11.986V	5.078V	3.298V	4.917V	703.589				52.1°C	115.01V
90%	49.445A	8.374A	8.499A	2.446A	674.782	84.083%	2094	44.2	44.7°C	0.995
	11.978V	5.076V	3.294V	4.906V	802.519				53.8°C	114.99V
100%	55.157A	8.869A	9.026A	3.074A	749.972	82.614%	2108	44.5	45.42°C	0.995
	11.971V	5.074V	3.29V	4.88V	907.812				55.49°C	114.96V
110%	60.743A	9.86A	10.14A	3.079A	824.991	81.746%	2112	44.5	46.59°C	0.996
	11.963V	5.071V	3.284V	4.872V	1009.228				57.47°C	114.93V
CL1	0.116A	11.848A	12.036A	0A	101.304	79.859%	1116	26.7	40.49°C	0.959
	12.027V	5.081V	3.298V	5.024V	126.854				46.4°C	115.14V

CL2	0.116A	19.717A	0A	0A	101.398	79.39%	1119	26.8	40.81°C	0.958
	12.032V	5.072V	3.341V	5.03V	127.72				48.4°C	115.14V
CL3	0.116A	0A	20.197A	0A	67.393	73.462%	1092	25.9	39.92°C	0.946
	12.029V	5.1V	3.268V	5.026V	91.741				49.54°C	115.15V
CL4	62.580A	0A	0A	0.001A	749.76	83.783%	2102	44.4	45.88°C	0.995
	11.981V	5.088V	3.323V	4.982V	894.918				56.38°C	114.97V

The results above are not used in the certification process

230V

□□	12V	5V	3.3V	5VSB	DC/AC (□)	□□	□□□□ (RPM)	□□□□□□□ (dB[A])	□□ (□□ /□□)	PF/AC □□
10%	4.437A	1.963A	1.98A	0.998A	75.005	84.086%	1084	25.6	40.18°C	0.843
	12.036V	5.096V	3.333V	5.009V	89.198				44.37°C	230.39V
20%	9.898A	2.946A	2.975A	1.201A	149.971	88.876%	1090	25.8	40.94°C	0.901
	12.029V	5.093V	3.328V	4.996V	168.742				45.52°C	230.38V
30%	15.713A	3.438A	3.475A	1.405A	224.972	90.183%	1089	25.7	41.19°C	0.932
	12.023V	5.091V	3.324V	4.984V	249.463				46.22°C	230.37V
40%	21.542A	3.931A	3.977A	1.61A	300.055	90.506%	1092	25.9	41.87°C	0.946
	12.016V	5.089V	3.32V	4.971V	331.533				47.43°C	230.36V
50%	26.985A	4.916A	4.979A	1.816A	374.582	90.349%	1099	26.1	42.14°C	0.954
	12.009V	5.087V	3.314V	4.957V	414.598				48.2°C	230.35V
60%	32.469A	5.903A	5.987A	2A	449.383	89.921%	1301	31.0	42.65°C	0.961
	12.002V	5.084V	3.307V	4.944V	499.752				49.2°C	230.34V
70%	37.960A	6.891A	6.996A	2.232A	524.427	89.353%	1669	39.0	43.25°C	0.967
	11.995V	5.08V	3.302V	4.929V	586.92				50.26°C	230.33V
80%	43.526A	7.878A	8.009A	2.339A	599.637	88.669%	1952	43.2	43.79°C	0.972
	11.987V	5.078V	3.296V	4.918V	676.263				51.83°C	230.32V
90%	49.436A	8.375A	8.505A	2.446A	674.719	87.967%	2093	44.2	44.55°C	0.976
	11.979V	5.075V	3.292V	4.907V	767.013				53.59°C	230.31V
100%	55.156A	8.872A	9.034A	3.075A	749.981	87.106%	2107	44.5	45.51°C	0.98
	11.971V	5.073V	3.287V	4.879V	861.004				55.55°C	230.31V

110%	60.742A	9.864A	10.149A	3.08A	824.992	86.294%	2110	44.5	46.53°C	0.982
	11.963V	5.069V	3.281V	4.871V	956.023				57.42°C	230.31V
CL1	0.116A	11.85A	12.046A	0A	101.3	81.625%	1114	26.5	40.15°C	0.884
	12.028V	5.08V	3.295V	5.024V	124.105				45.5°C	230.38V
CL2	0.116A	19.721A	0A	0A	101.393	81.2%	1115	26.7	40.06°C	0.883
	12.032V	5.07V	3.341V	5.03V	124.867				47.1°C	230.37V
CL3	0.116A	0A	20.22A	0A	67.388	74.917%	1087	25.6	40.39°C	0.845
	12.029V	5.099V	3.264V	5.026V	89.952				49.47°C	230.37V
CL4	62.570A	0A	0A	0.001A	749.699	88.02%	2099	44.4	45.18°C	0.979
	11.981V	5.088V	3.323V	4.982V	851.749				55.38°C	230.3V

The results above are not used in the certification process

20-80□□□□□

115V

□□	12V	5V	3.3V	5VSB	DC/AC (□)	□□	□□□□ (RPM)	□□□□□□□ (dB[A])	□□ (□□ /□□)	PF/AC □□
20W	1.234A	0.49A	0.494A	0.198A	20.003	64.605%	1074	25.5	36.57°C	0.91
	12.041V	5.099V	3.34V	5.038V	30.961				39.75°C	115.16V
40W	2.716A	0.686A	0.692A	0.298A	40	77.142%	1079	25.6	37.24°C	0.97
	12.039V	5.099V	3.339V	5.034V	51.852				40.77°C	115.15V
60W	4.198A	0.883A	0.89A	0.398A	59.998	81.179%	1084	25.6	38.23°C	0.946
	12.038V	5.098V	3.338V	5.029V	73.907				41.87°C	115.14V
80W	5.676A	1.079A	1.088A	0.498A	79.959	83.552%	1089	25.7	39.77°C	0.946
	12.037V	5.097V	3.337V	5.024V	95.701				43.51°C	115.14V

The results above are not used in the certification process

230V

□□	12V	5V	3.3V	5VSB	DC/AC (□)	□□	□□□□ (RPM)	□□□□□□□ (dB[A])	□□ (□□ /□□)	PF/AC □□
20W	1.234A	0.49A	0.494A	0.198A	19.999	66.219%	1072	25.5	36.58°C	0.603
	12.042V	5.098V	3.34V	5.038V	30.194				39.77°C	230.37V
40W	2.715A	0.687A	0.692A	0.298A	39.997	77.874%	1074	25.5	37.38°C	0.742
	12.040V	5.098V	3.339V	5.034V	51.357				40.79°C	230.37V
60W	4.197A	0.883A	0.89A	0.398A	59.996	82.617%	1076	25.5	38.46°C	0.807
	12.039V	5.097V	3.337V	5.029V	72.614				42.11°C	230.37V
80W	5.676A	1.079A	1.088A	0.498A	79.958	85.251%	1079	25.6	39.33°C	0.851
	12.037V	5.097V	3.336V	5.024V	93.793				43.05°C	230.37V

The results above are not used in the certification process

□□□□

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	9.4 mV	10.1 mV	6.4 mV	7.4 mV	Pass
20% Load	10.1 mV	10.0 mV	6.2 mV	7.3 mV	Pass
30% Load	11.9 mV	10.0 mV	6.5 mV	7.2 mV	Pass
40% Load	13.4 mV	10.9 mV	6.5 mV	8.1 mV	Pass
50% Load	14.8 mV	11.5 mV	7.0 mV	8.5 mV	Pass
60% Load	17.9 mV	12.8 mV	7.1 mV	9.1 mV	Pass
70% Load	19.4 mV	12.9 mV	7.6 mV	9.6 mV	Pass
80% Load	20.3 mV	13.8 mV	13.5 mV	11.0 mV	Pass
90% Load	23.3 mV	14.9 mV	14.1 mV	12.3 mV	Pass
100% Load	37.8 mV	18.4 mV	17.6 mV	17.1 mV	Pass
110% Load	46.3 mV	20.4 mV	19.6 mV	17.9 mV	Pass
Crossload 1	15.0 mV	14.2 mV	16.2 mV	7.2 mV	Pass
Crossload 2	11.4 mV	15.1 mV	8.5 mV	7.4 mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload 3	10.3 mV	9.1 mV	18.0 mV	6.1 mV	Pass
Crossload 4	40.1 mV	16.4 mV	11.7 mV	12.3 mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	9.0 mV	9.5 mV	6.0 mV	7.1 mV	Pass
20% Load	10.5 mV	10.2 mV	6.3 mV	7.3 mV	Pass
30% Load	12.6 mV	10.9 mV	6.7 mV	7.2 mV	Pass
40% Load	13.2 mV	10.9 mV	6.4 mV	7.7 mV	Pass
50% Load	15.6 mV	11.5 mV	7.1 mV	8.6 mV	Pass
60% Load	17.0 mV	11.7 mV	7.2 mV	8.8 mV	Pass
70% Load	19.3 mV	13.3 mV	7.9 mV	9.3 mV	Pass
80% Load	20.7 mV	14.0 mV	13.2 mV	10.8 mV	Pass
90% Load	23.3 mV	14.4 mV	14.1 mV	11.3 mV	Pass
100% Load	35.7 mV	18.1 mV	17.4 mV	14.7 mV	Pass
110% Load	43.6 mV	18.5 mV	19.8 mV	16.8 mV	Pass
Crossload 1	13.9 mV	14.3 mV	16.0 mV	6.9 mV	Pass
Crossload 2	10.6 mV	15.5 mV	8.5 mV	7.0 mV	Pass
Crossload 3	10.7 mV	8.9 mV	17.6 mV	5.4 mV	Pass
Crossload 4	38.4 mV	17.2 mV	11.9 mV	11.7 mV	Pass

The results above are not used in the certification process

Gamer Storm PL750D





Top side Power specifications label

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