



Thermaltake Toughpower PT 1200W

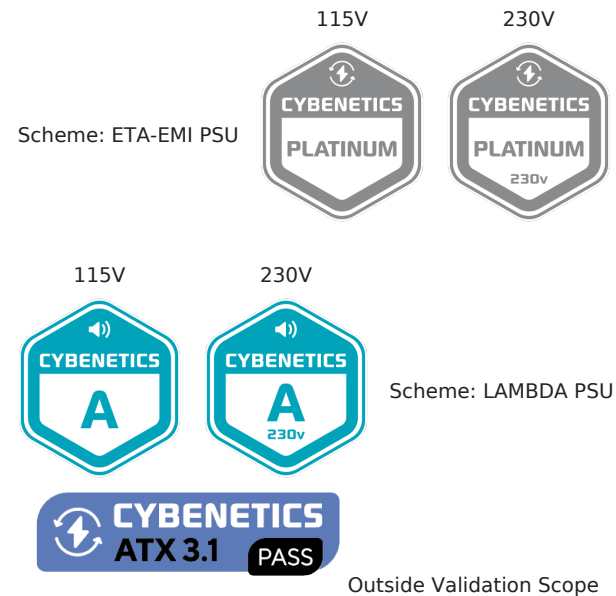
Serial Number PSTPP1200FNFAPU1BLCW00109

Lab ID TT12002994

Certification ID 252994

Test Result Report ID: 25PS2994A

Certificate Issue Date: Oct 22, 2025



A handwritten signature in blue ink, consisting of several loops and a long horizontal stroke.

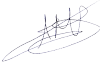
General Information

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	Thermaltake
Model	Toughpower PT 1200W
OEM/ODM	CWT
Serial Number	PSTPP1200FNFAPU1BLCW00109
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	15

Rated Frequency (Hz)	47-63
Rated Power (W)	1200
Operating Temperature (Continuous Full Load) (°C)	
Type	ATX12V
Cable Design	Fully Modular
Warranty	-
Cybenetics Measurements	
Dimensions (W x H x D)	
Weight	
Cooling	135mm Fluid Dynamic Bearing Fan (CWT13525H12F-9)
Semi-Passive Operation	X
Cybenetics Testing Information	
Lab ID	TT12002994
Date of receipt	Sep 23, 2025
Testing Date	Oct 7, 2025
Report Issued Date	Oct 22, 2025
Engineer Name	Okeke Ugochukwu Onyedikachukwu
Authorized By the Laboratory Technical Manager	Aristeidis Bitziopoulos
Signature	

Cables and Connectors(Non-accredited measurements)

Modular Cables				
Description	Cable Count	Connector Count (Total)	Gauge	Cable Type
ATX connector 24 pin (550mm)	1	1	16-20AWG	Tinned Copper
4+4 pin ATX12V (700mm)	2	2	16AWG	Tinned Copper
6+2 pin PCIe (600mm+150mm)	2	4	16-18AWG	Tinned Copper
6+2 pin PCIe (600mm)	1	1	16AWG	Tinned Copper
12+4 pin PCIe (600mm) (600W)	2	2	16-24AWG	Tinned Copper
SATA (450mm+150mm+150mm)	2	6	18AWG	Tinned Copper
4-pin Molex (450mm+150mm+150mm+150mm)	1	4	18AWG	Tinned Copper

AC Power Cord (1410mm) - C13 coupler	1	1	14AWG	-
--------------------------------------	---	---	-------	---

Protection Features(Manufacturer)

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

Power Specifications

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	100	3	0.3
	Watts	110		1200	15	3.6
Total Max. Power (W)		1200				

Parts Description

General Data	
Manufacturer (OEM)	CWT
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV, 1x Power IntegrationsCAP200DG (X Capacitor Discharge IC)
Inrush Protection	NTC Thermistor SCK-207R0 (7 Ohm @ 25°C) & Relay
Bridge Rectifier	2x Yangzhou GBUU2508 (800V, 25A @ 110°C)
APFC MOSFETs	3x Way-On WML53N60C4 (600V, 26A @ 100°C, Rds(on): 0.07Ohm)
APFC Boost Diode	2x CRMicro CRXI06D065G2 (650V, 6A @ 167°C)
Bulk Cap(s)	2x Nippon Chemi-Con (400V, 470uF each or 940uF combined, 2000h @ 105°C,KMW)
Main Switchers	4x PingWei PWE120N65SFMF (650V, 20A @ 100°C, Rds(on): 120mOhm)
APFC Controller	Champion CM6500UNX
Resonant Controller	Champion CM6901T6X

Topology	Primary side: APFC, Full-Bridge & LLC Resonant Converter Secondary side: [12V] Synchronous Rectification & [Minor Rails] DC-DC converters
Secondary Side	
+12V MOSFETs	8x PingWei PWC013N04ES (40V, 155A @ 100°C, Rds(on): 1.3mOhm)
5V & 3.3V	DC-DC Converters: 4x UBIQ Semi QM3054M6 (30V, 61A @ 100°C, Rds(on): 4.8mOhm) PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic: 4x Nippon Chemi-Con (@ 105°C, W) 2x Rubycon (6-10,000 @ 105°C, ZLH) 2x Rubycon (4-10,000 @ 105°C, YXF) Nichicon (4-10,000 @ 105°C, HE(M)) Nichicon (5-6,000 @ 105°C, HV(M)) Polymer: 24x Toshin Kogyo, 1x Nippon Chemi-Con
Fan Model	TT-13525 CWT13525H12F-9 (135mm, 12V, 0.4A, Fluid Dynamic Bearing Fan)
5VSB Circuit	
Rectifier (High Side)	Dongke DK5V45R10V (45V, 10mOhm)
Standby PWM Controller	KP22306AWG

Test Results

Temperature & Compliance Info

Temperature Range (°C /°F)	28-32 / 82.4-89.6
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓
ALPM (Alternative Low Power Mode) compatible	✓
ATX v3.1 PSU Power Excursion	✓

Performance Summary

115V

Accredited	
Average Efficiency (>1450 load combinations)	90.345%

Average Noise Output (>1450 Load Combinations)	23.82dBA
Average PF (>1450 Load Combinations)	0.991
Efficiency With 10W ($\leq$ 500W) or 2% (>500W) Load	74.101%
Standby Power Consumption	0.0308W
Non-Accredited	
12V Ripple (Full Load)	31.44mV
5V Ripple (Full Load)	19.15mV
3.3V Ripple (Full Load)	15.44mV
5VSB Ripple (Full Load)	18.58mV
12V Load Regulation	0.66%
5V Load Regulation	0.85%
3.3V Load Regulation	2.15%
5VSB Load Regulation	4.77%
Inrush Current	25.950A

230V

Accredited	
Average Efficiency (>1450 load combinations)	92.072%
Average Noise Output (>1450 Load Combinations)	22.97dBA
Average PF (>1450 Load Combinations)	0.968
Efficiency With 10W ($\leq$ 500W) or 2% (>500W) Load	75.069%
Standby Power Consumption	0.0633W
Non-Accredited	
12V Ripple (Full Load)	33.20mV
5V Ripple (Full Load)	18.57mV
3.3V Ripple (Full Load)	15.91mV
5VSB Ripple (Full Load)	17.69mV
12V Load Regulation	0.63%
5V Load Regulation	0.87%
3.3V Load Regulation	2.05%
5VSB Load Regulation	4.68%
Inrush Current	47.180A

12V Transient Response (200%)	11.16V	
5V Transient Response (200%)	4.837V	
3.3V Transient Response (200%)	3.171V	
5VSB Transient Response (200%)	4.888V	
Hold-Up Time & PWR_OK Signal	17.70ms	
AC Loss to PWR_OK Hold Up Time	16.50ms	
PWR_OK Inactive to DC Loss Delay	1.20ms	
PSU Timings: T1 (20% / 100%)	29.0ms	26.0ms
PSU Timings: T3 (20% / 100%)	124.0ms	125.0ms
12V OCP (27.5°C / 41.7°C)	128.80A (128.80%), 11.880V	115.80A (115.80%), 11.893V
5V OCP (27.5°C / 41.7°C)	22.5A (112.50%), 4.985V	22.3A (111.50%), 4.976V
3.3V OCP (27.5°C / 41.7°C)	24.4A (122.00%), 3.3V	23.9A (119.50%), 3.302V
5VSB OCP (27.5°C / 41.7°C)	4.7A (156.67%), 4.947V	4.6A (153.33%), 4.944V
OPP (29.49°C / 42.47°C)	126.89%	113.17%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	17.7
AC Loss to PWR_OK Hold Up Time (ms)	16.5
PWR_OK Inactive to DC Loss Delay (ms)	1.2



Tables

115V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.00 V	114.94 V	113.85 V	115.04 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.97 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.417	1.490	PASS

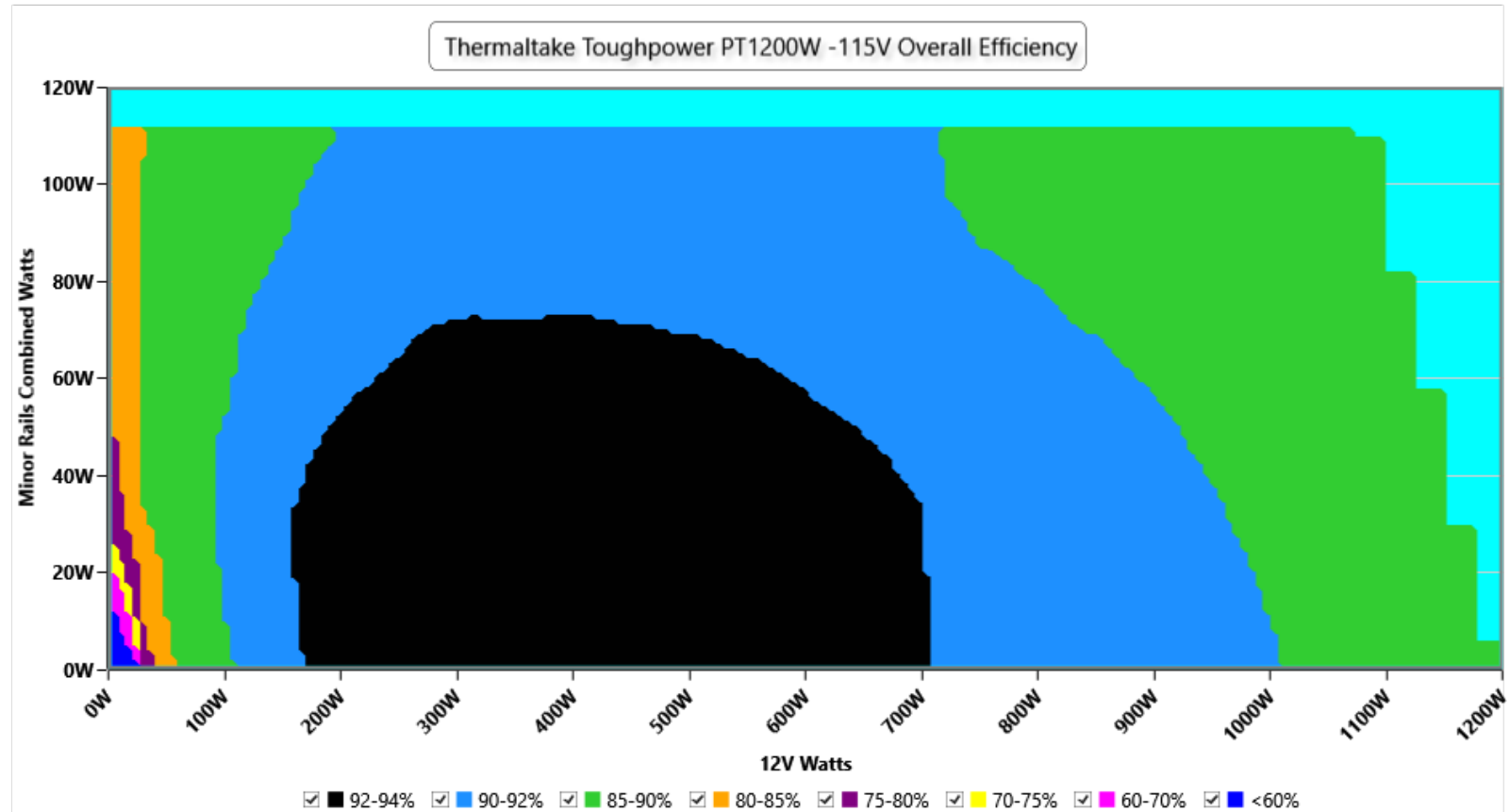
Mains Voltage THD:	0.13 %	0.10 %	N/A	0.16 %	2.00 %	PASS
Real Power:	0.031 W	-0.002 W	N/A	0.059 W	N/A	N/A
Apparent Power:	10.060 W	10.035 W	N/A	10.084 W	N/A	N/A
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A

230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	229.99 V	229.94 V	227.70 V	230.00 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	1.458	1.490	PASS
Mains Voltage THD:	0.15 %	0.13 %	N/A	0.56 %	2.00 %	PASS
Real Power:	0.063 W	0.027 W	N/A	0.109 W	N/A	N/A
Apparent Power:	32.961 W	32.926 W	N/A	32.995 W	N/A	N/A
Power Factor:	0.002	N/A	N/A	N/A	N/A	N/A

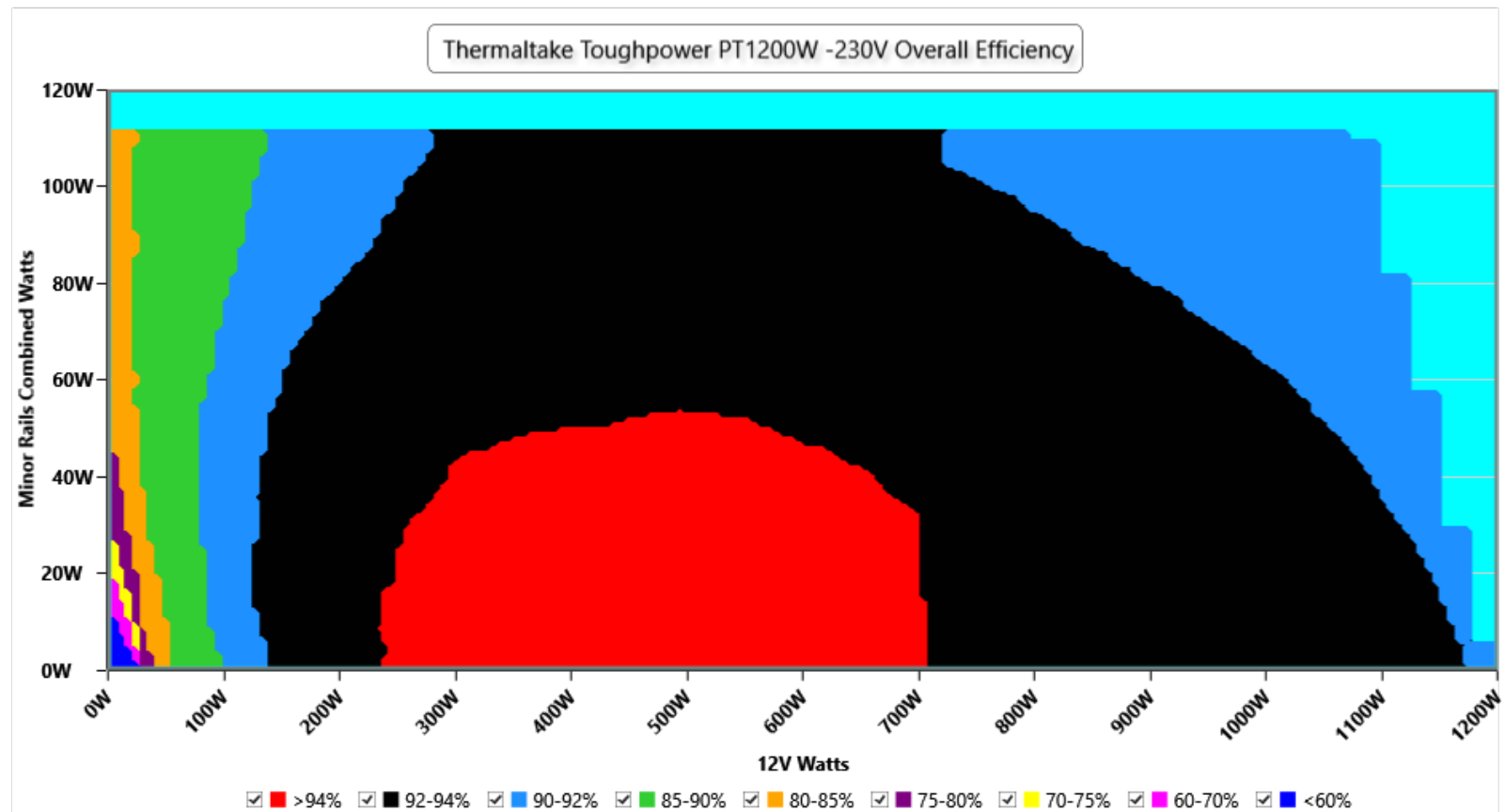
Efficiency Graph

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

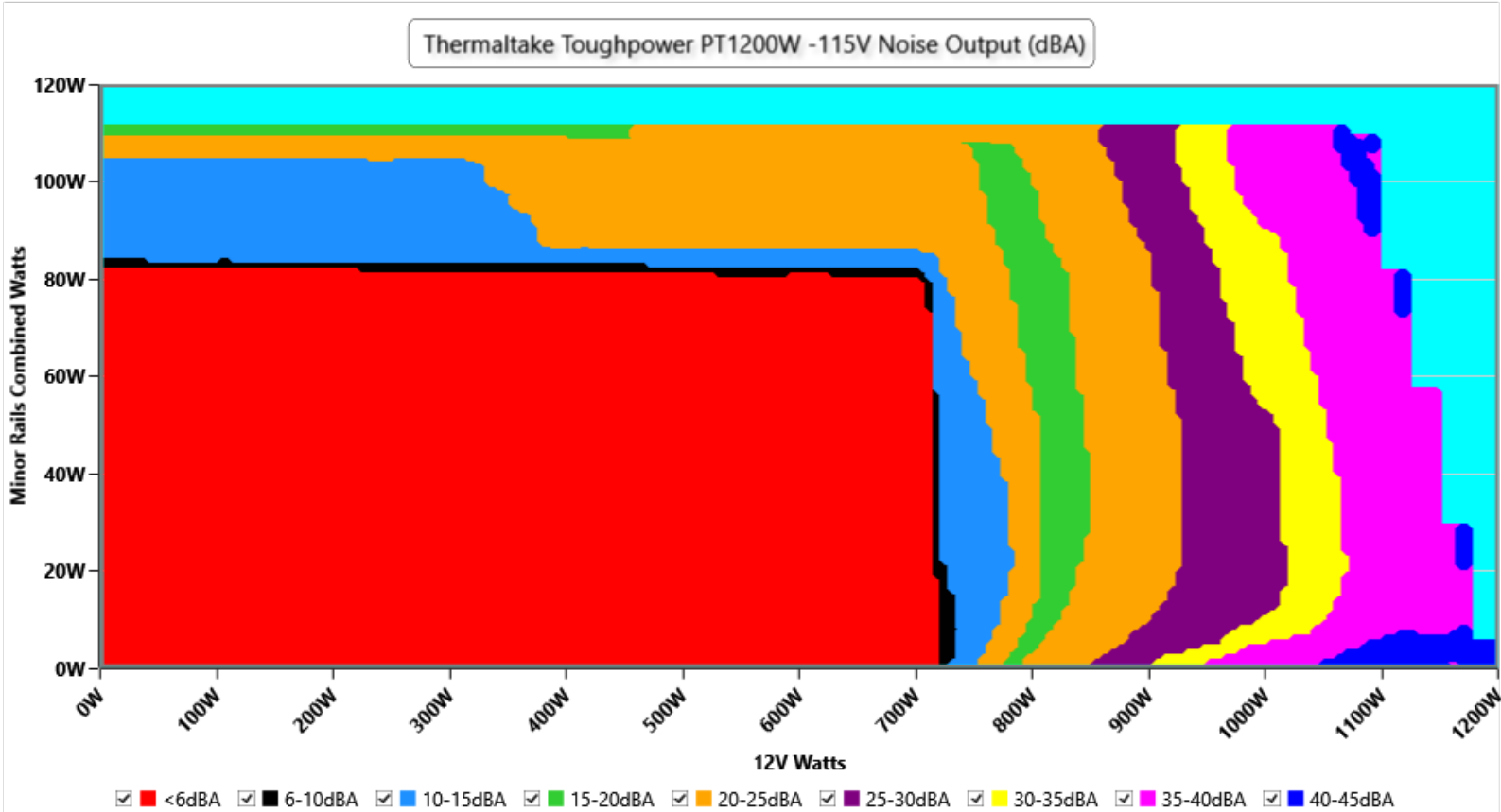


INFO

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

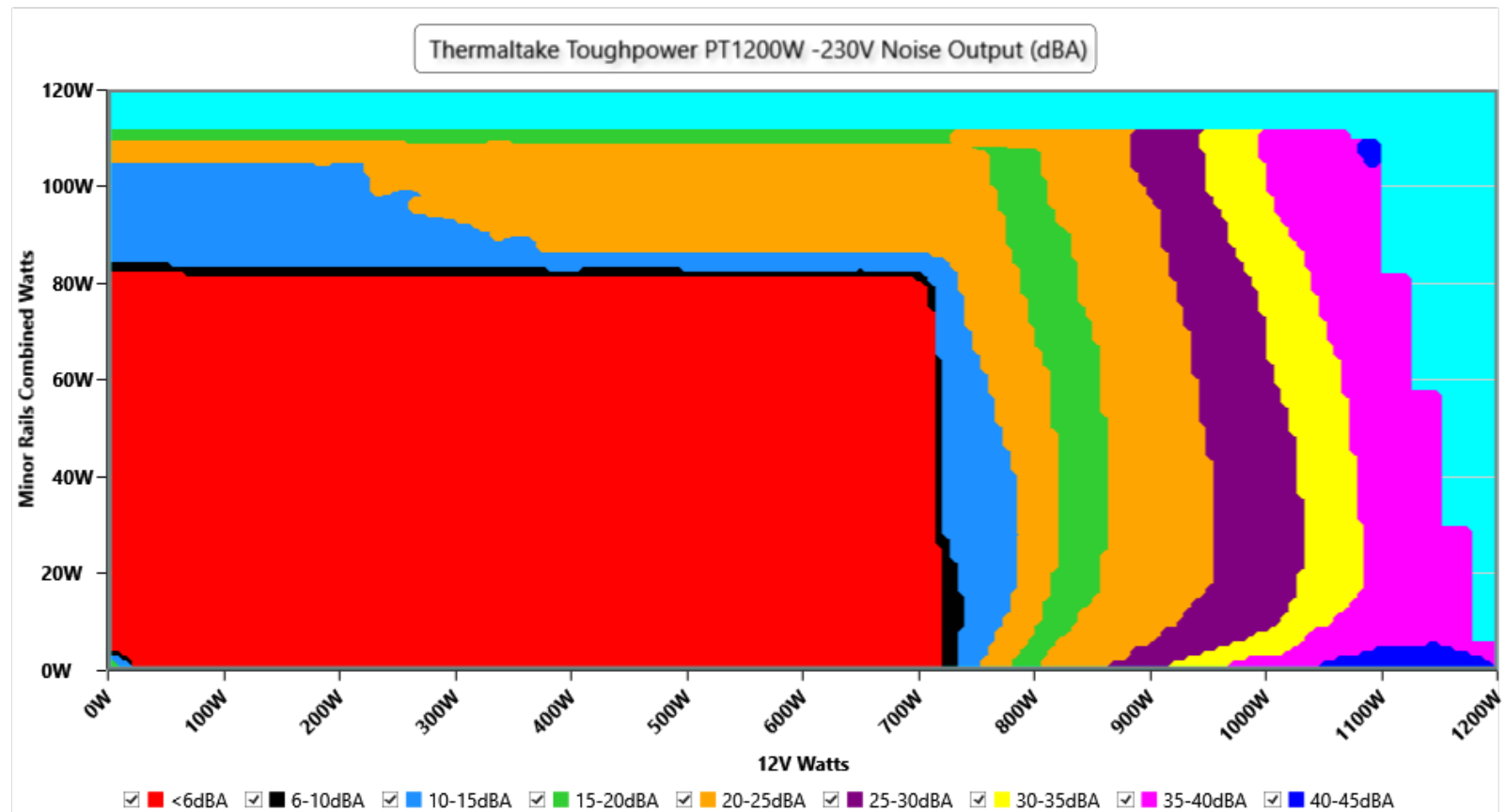
Noise Graph

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

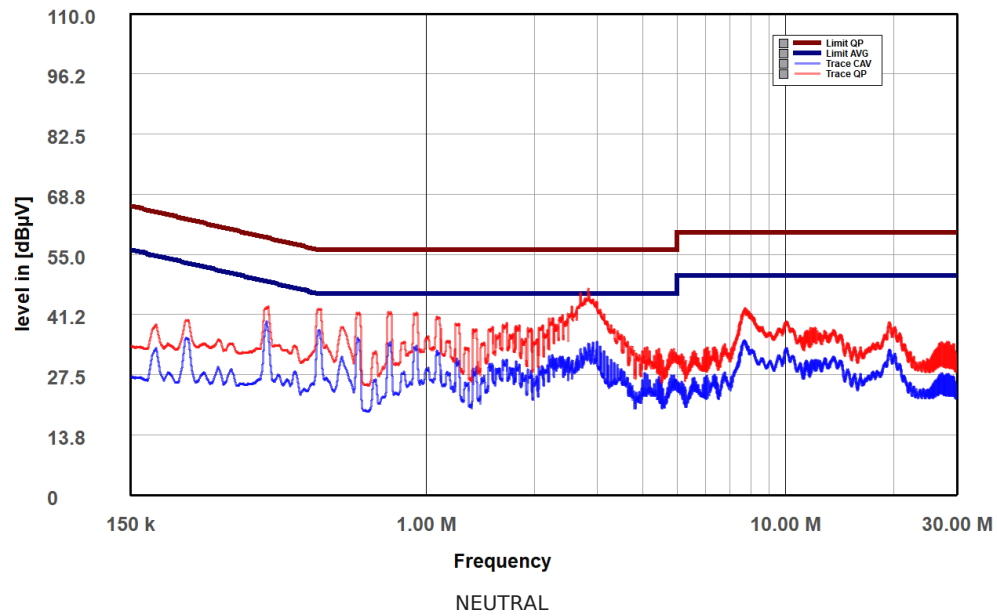


INFO

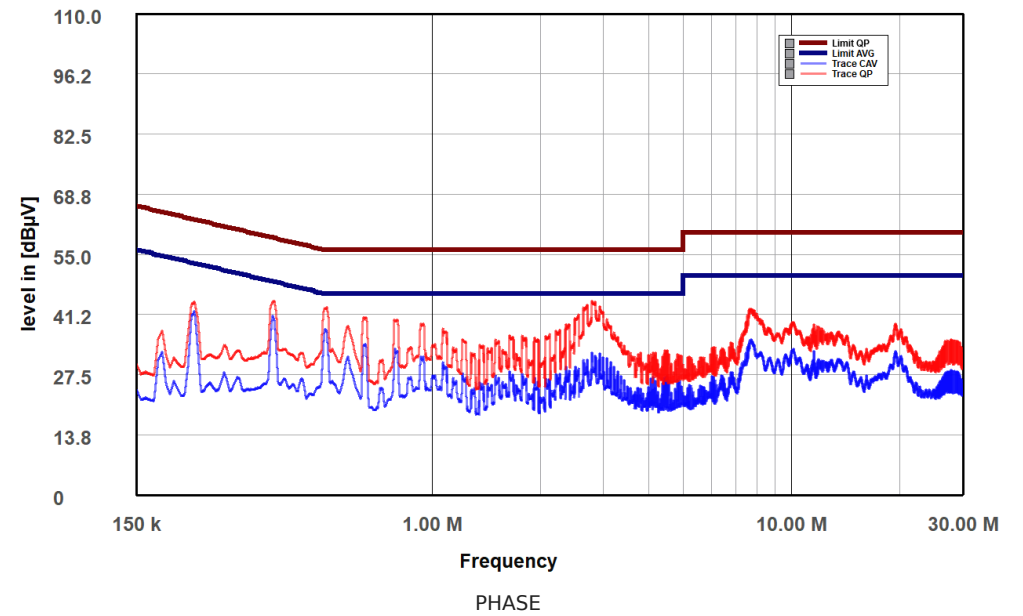
The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

Conducted Emissions EN 55032 & CISPR 32

Thermaltake Toughpower PT 1200 (TT12002994) #2 Neutral



Thermaltake Toughpower PT 1200 (TT12002994) #2 Phase

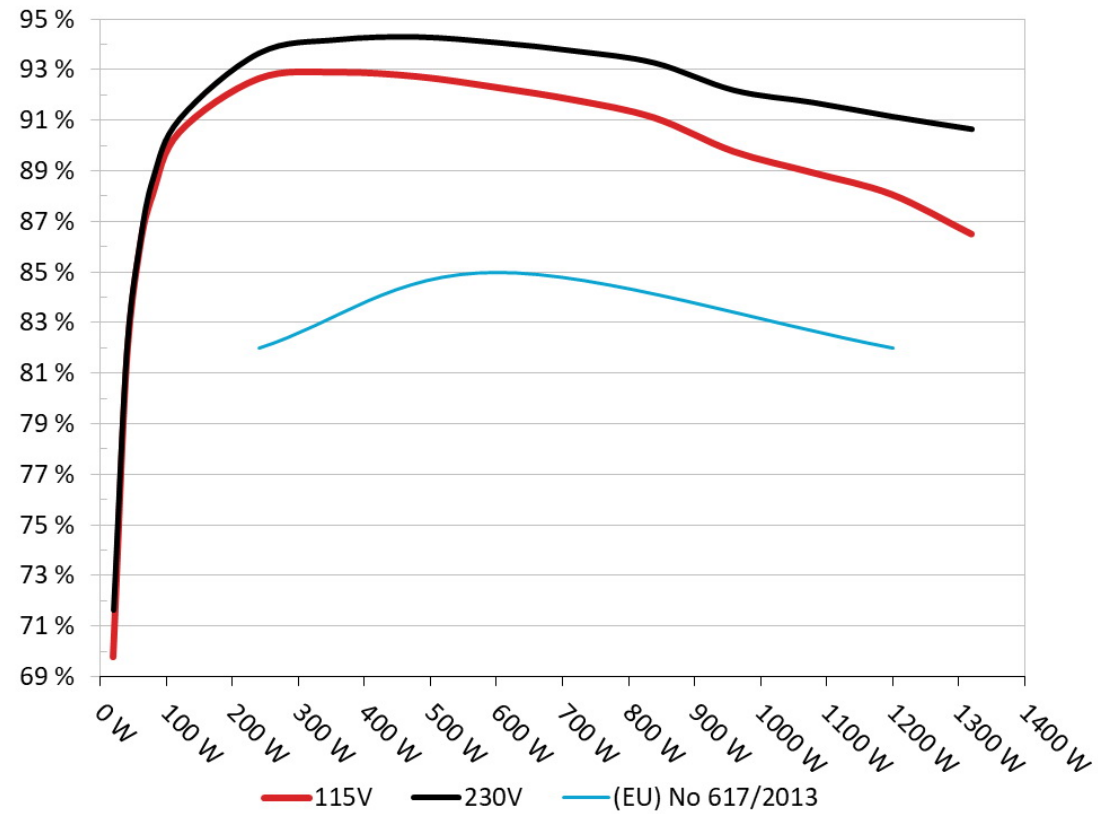


Indicative Performance

Efficiency under high ambient temperature

Efficiency: Thermaltake Toughpower PT 1200W

Ambient: 36°C - 46°C (96.8°F - 114.8°F)



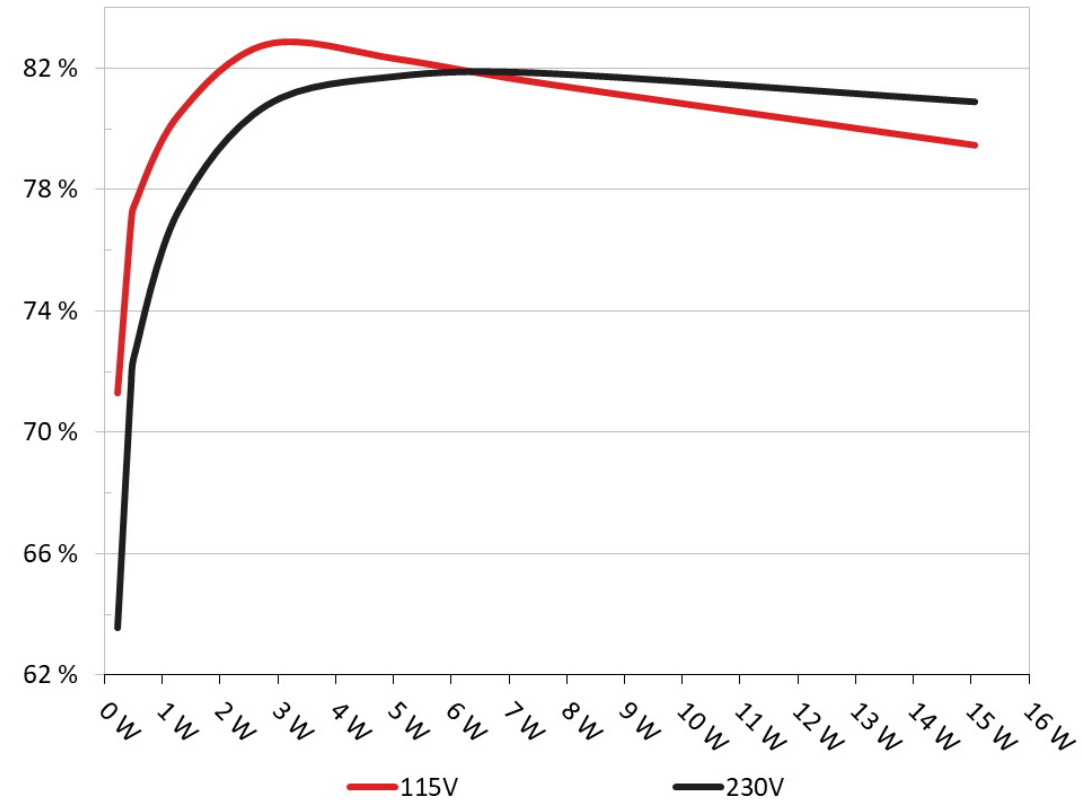
INFO

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 PT 1200W

Ambient: 25°C - 30°C (77°F - 86°F)



INFO

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

5VSB Efficiency (ERP LOT 3/6 & CEC)

115V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.231W	71.301%	0.032
	5.129V	0.324W		115.11V
2	0.09A	0.462W	76.901%	0.059
	5.127V	0.601W		115.1V
3	0.55A	2.81W	82.804%	0.269
	5.11V	3.394W		115.09V
4	1A	5.093W	82.315%	0.377
	5.093V	6.187W		115.09V
5	1.5A	7.613W	81.513%	0.436
	5.075V	9.34W		115.09V
6	3A	15.059W	79.478%	0.508
	5.019V	18.948W		115.09V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.231W	63.564%	0.01
	5.131V	0.319W		230.26V
2	0.09A	0.462W	71.515%	0.02
	5.13V	0.646W		230.21V
3	0.55A	2.812W	80.763%	0.102
	5.112V	3.482W		230.18V
4	1A	5.096W	81.724%	0.171
	5.096V	6.235W		230.18V
5	1.5A	7.617W	81.815%	0.233
	5.077V	9.309W		230.17V
6	3.001A	15.063W	80.878%	0.347
	5.02V	18.623W		230.16V

Protection Features

OCP (Normal @ 27.5°C)	12V: 128.80A (128.80%), 11.880V 5V: 22.5A (112.50%), 4.985V 3.3V: 24.4A (122.00%), 3.3V 5VSB: 4.7A (156.67%), 4.947V
OCP (Hot @ 41.7°C)	12V: 115.80A (115.80%), 11.893V 5V: 22.3A (111.50%), 4.976V 3.3V: 23.9A (119.50%), 3.302V 5VSB: 4.6A (153.33%), 4.944V
OPP (Normal @ 29.5°C)	1522.63W (126.89%)
OPP (Hot @ 42.5°C)	1358.02W (113.17%)
OTP	✓ (110°C @ Heat Sink)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓ -12V to Earth: ✓
PWR_OK	Proper Operation
UVP (Full Load @ 90V)	✓
UVP (No Damage @ 80V)	✓
Conducted Emissions EN55032 & CISPR 32	✓
NLO	✓
Fan Failure Protection	✗
SIP	Surge: MOV Inrush: NTC & Bypass Relay

Supplementary Tests (For Reference)

Typical 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%	8.214A	1.997A	1.985A	0.984A	119.978	90.522%	390	<6.0	40.43°C	0.972
	11.977V	5.008V	3.325V	5.082V	132.538				45.8°C	115.05V
20%	17.464A	2.998A	2.983A	1.185A	239.932	92.639%	395	<6.0	40.7°C	0.988
	11.969V	5.004V	3.318V	5.062V	258.994				48.52°C	115.01V
30%	27.007A	3.501A	3.487A	1.388A	359.108	92.893%	399	<6.0	41.36°C	0.988
	11.962V	4.999V	3.312V	5.044V	386.582				52.51°C	114.97V
40%	36.662A	4.004A	3.993A	1.592A	479.481	92.727%	401	<6.0	41.84°C	0.991
	11.954V	4.996V	3.306V	5.024V	517.088				57.35°C	114.92V
50%	45.930A	5.009A	5.002A	1.799A	599.214	92.3%	399	<6.0	42.29°C	0.994
	11.946V	4.992V	3.299V	5.003V	649.206				62.6°C	114.89V
60%	55.278A	6.016A	6.015A	2A	719.727	91.789%	398	<6.0	42.84°C	0.996
	11.939V	4.988V	3.292V	4.982V	784.112				68.67°C	114.85V
70%	64.572A	7.026A	7.034A	2.218A	839.489	91.096%	714	18.5	43.25°C	0.997
	11.931V	4.983V	3.284V	4.959V	921.54				68.93°C	114.82V
80%	73.942A	8.035A	8.056A	2.327A	959.456	89.766%	1322	34.3	43.72°C	0.998
	11.923V	4.978V	3.277V	4.942V	1068.848				63.19°C	114.77V
90%	83.660A	8.545A	8.561A	2.436A	1079.281	88.927%	1803	43.1	44.22°C	0.998
	11.914V	4.973V	3.27V	4.927V	1213.67				61.35°C	114.72V
100%	93.194A	9.057A	9.1A	3.068A	1199.311	88.065%	2167	47.4	45.89°C	0.998
	11.906V	4.969V	3.263V	4.889V	1361.844				60.75°C	114.67V
110%	100.626A	10.068A	10.226A	3.077A	1295.44	85.6%	2170	47.4	46.04°C	0.998
	11.897V	4.962V	3.256V	4.875V	1513.376				62.32°C	114.61V
CL1	0.116A	13.216A	13.209A	0A	111.293	82.892%	839	20.6	41.57°C	0.974
	11.970V	5.009V	3.308V	5.102V	134.261				54.56°C	115.04V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL2	0.116A	19.934A	0A	0A	101.371	80.921%	1785	42.2	41.81°C	0.97
	11.975V	5.016V	3.325V	5.112V	125.273				47.49°C	115.05V
CL3	0.115A	0A	19.961A	0A	67.381	73.285%	1656	39.9	40.3°C	0.972
	11.973V	5.003V	3.306V	5.109V	91.944				44.65°C	115.06V
CL4	100.697A	0A	0A	0A	1199.873	88.95%	1928	44.6	45.22°C	0.998
	11.915V	4.972V	3.281V	5.029V	1348.928				60.09°C	114.67V

The results above are not used in the certification process

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%	8.213A	1.997A	1.984A	0.984A	119.977	91.045%	393	<6.0	40.46°C	0.907
	11.978V	5.007V	3.326V	5.082V	131.777				45.74°C	230.29V
20%	17.462A	2.999A	2.983A	1.185A	239.928	93.637%	396	<6.0	40.75°C	0.956
	11.971V	5.003V	3.319V	5.063V	256.233				47.53°C	230.27V
30%	27.003A	3.501A	3.486A	1.388A	359.094	94.171%	398	<6.0	41.32°C	0.971
	11.963V	4.999V	3.313V	5.044V	381.316				50.14°C	230.25V
40%	36.655A	4.005A	3.991A	1.592A	479.464	94.279%	400	<6.0	41.68°C	0.978
	11.956V	4.995V	3.307V	5.025V	508.559				52.97°C	230.23V
50%	45.920A	5.01A	4.999A	1.798A	599.204	94.059%	402	<6.0	42.21°C	0.982
	11.949V	4.991V	3.301V	5.005V	637.048				56.35°C	230.21V
60%	55.266A	6.017A	6.012A	2A	719.72	93.72%	401	<6.0	42.99°C	0.985
	11.941V	4.987V	3.294V	4.984V	767.944				59.96°C	230.18V
70%	64.555A	7.026A	7.029A	2.217A	839.481	93.252%	698	20.3	43.44°C	0.987
	11.934V	4.982V	3.287V	4.962V	900.232				60.37°C	230.16V
80%	73.919A	8.036A	8.049A	2.325A	959.442	92.172%	1291	33.5	43.72°C	0.989
	11.926V	4.977V	3.279V	4.945V	1040.926				57.64°C	230.14V
90%	83.630A	8.547A	8.554A	2.434A	1079.268	91.691%	1747	41.3	44.45°C	0.99
	11.919V	4.972V	3.273V	4.93V	1177.076				56.08°C	230.12V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	93.157A	9.058A	9.093A	3.066A	1199.257	91.136%	2145	47.2	45.11°C	0.991
	11.910V	4.968V	3.266V	4.893V	1315.893				56.41°C	230.1V
110%	102.638A	10.075A	10.218A	3.075A	1319.915	90.636%	2112	46.8	45.31°C	0.992
	11.902V	4.963V	3.258V	4.879V	1456.289				57.58°C	230.08V
CL1	0.116A	13.225A	13.206A	0A	111.288	83.22%	837	20.5	41.42°C	0.91
	11.972V	5.005V	3.309V	5.103V	133.73				53.23°C	230.29V
CL2	0.116A	19.951A	0A	0A	101.366	81.532%	1781	42.1	40.94°C	0.901
	11.977V	5.011V	3.325V	5.113V	124.328				46.17°C	230.29V
CL3	0.115A	0A	19.957A	0A	67.381	73.795%	1652	39.9	41.4°C	0.859
	11.974V	5.004V	3.307V	5.11V	91.322				44.32°C	230.29V
CL4	100.675A	0A	0A	0A	1199.881	91.887%	1946	46.2	45.82°C	0.991
	11.918V	4.974V	3.283V	5.03V	1305.835				55.76°C	230.1V

The results above are not used in the certification process

Light 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	1.239A	0.499A	0.495A	0.195A	19.992	69.795%	385	<6.0	36.66°C	0.897
	11.985V	5.011V	3.333V	5.122V	28.641				37.72°C	115.09V
40W	2.727A	0.699A	0.693A	0.293A	39.993	81.292%	385	<6.0	37.95°C	0.947
	11.983V	5.011V	3.332V	5.117V	49.196				40.51°C	115.08V
60W	4.217A	0.898A	0.892A	0.391A	59.995	85.909%	386	<6.0	38.37°C	0.952
	11.981V	5.009V	3.33V	5.111V	69.836				42.32°C	115.08V
80W	5.701A	1.098A	1.09A	0.49A	79.93	88.077%	388	<6.0	39.56°C	0.972
	11.980V	5.009V	3.329V	5.105V	90.75				44.14°C	115.07V

The results above are not used in the certification process

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	1.239A	0.499A	0.495A	0.195A	19.994	71.647%	385	<6.0	36.02°C	0.487
	11.985V	5.011V	3.333V	5.122V	27.902				39.75°C	230.3V
40W	2.727A	0.699A	0.693A	0.293A	39.995	81.897%	385	<6.0	37.33°C	0.664
	11.984V	5.011V	3.332V	5.117V	48.832				41.14°C	230.3V
60W	4.217A	0.898A	0.892A	0.391A	59.996	86.152%	385	<6.0	38.68°C	0.789
	11.982V	5.009V	3.33V	5.111V	69.64				42.6°C	230.29V
80W	5.701A	1.098A	1.09A	0.49A	79.931	88.704%	389	<6.0	39.21°C	0.856
	11.981V	5.009V	3.329V	5.105V	90.101				43.73°C	230.29V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	19.18mV	16.38mV	12.98mV	14.09mV	Pass
20% Load	23.41mV	15.77mV	12.98mV	15.07mV	Pass
30% Load	25.93mV	15.77mV	12.62mV	14.61mV	Pass
40% Load	29.33mV	16.33mV	13.03mV	15.23mV	Pass
50% Load	30.16mV	16.54mV	13.86mV	15.43mV	Pass
60% Load	32.84mV	16.90mV	13.45mV	15.49mV	Pass
70% Load	35.37mV	16.64mV	14.12mV	16.21mV	Pass
80% Load	29.08mV	18.86mV	16.29mV	17.50mV	Pass
90% Load	29.91mV	18.29mV	15.92mV	18.84mV	Pass
100% Load	31.44mV	19.15mV	15.44mV	18.58mV	Pass
110% Load	31.85mV	19.33mV	15.31mV	19.89mV	Pass
Crossload1	19.12mV	16.65mV	12.78mV	11.92mV	Pass
Crossload2	19.80mV	19.17mV	11.89mV	12.49mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	17.22mV	15.09mV	14.22mV	11.82mV	Pass
Crossload4	31.42mV	16.90mV	14.36mV	14.97mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	20.67mV	16.02mV	13.34mV	14.14mV	Pass
20% Load	24.90mV	15.76mV	13.08mV	14.40mV	Pass
30% Load	27.07mV	16.02mV	13.08mV	14.92mV	Pass
40% Load	30.16mV	16.53mV	13.29mV	14.81mV	Pass
50% Load	31.76mV	17.62mV	13.70mV	15.12mV	Pass
60% Load	34.49mV	17.93mV	14.48mV	15.23mV	Pass
70% Load	39.08mV	17.83mV	15.31mV	16.05mV	Pass
80% Load	30.37mV	20.04mV	16.50mV	17.14mV	Pass
90% Load	32.69mV	19.11mV	16.29mV	17.24mV	Pass
100% Load	33.20mV	18.57mV	15.91mV	17.69mV	Pass
110% Load	34.18mV	19.83mV	15.95mV	17.81mV	Pass
Crossload1	20.84mV	17.21mV	14.53mV	12.39mV	Pass
Crossload2	20.47mV	20.71mV	13.24mV	13.01mV	Pass
Crossload3	17.43mV	14.73mV	14.27mV	11.51mV	Pass
Crossload4	32.24mV	18.41mV	14.28mV	14.64mV	Pass

The results above are not used in the certification process

Thermaltake Toughpower PT 1200W



Top side

thermaltake

TOUGHPower SERIES

ATX 3.1 POWER SUPPLY

TOUGHPower PT 1000W

AC INPUT (交流输入/交流输入)	Not applicable in China (不适用于中国) : 100 - 240V~ ; 15.0A Max. ; 47Hz - 63Hz Only For China (仅适用于中国) : 200 - 240V~ ; 7.5A Max. ; 47Hz - 63Hz					
DC OUTPUT (直流输出/直流输出)	+3.3V	+5V	+12V	-12V	+5VSB	
Max Output Current (最大输出电流/最大输出电流)	20.0A	20.0A	83.3A	0.3A	3.0A	
Max Output Power (最大输出功率/最大输出功率)	110W		999.6W	3.6W	15W	
Total Power (总输出功率/总输出功率)	1000W					

MODEL(型号/型号)

TTP-1000AH3FCP

For more information, please visit our website: <http://www.thermaltake.com/eng/product/power-supply>

請參閱說明書以瞭解詳細資訊

欲瞭解更多資訊，請前往我們的網站：<http://www.thermaltake.com/eng/product/power-supply>

Part Number: A

Shipping Power Supply (含運送/運送包裝)

ATTENTION

Read the manual before use. Do not open the power supply case. Do not touch the internal components. Do not use the power supply if it is damaged or if it is not working properly. Do not use the power supply if it is not certified for use in your country.

WARNING

Read the manual before use. Do not open the power supply case. Do not touch the internal components. Do not use the power supply if it is damaged or if it is not working properly. Do not use the power supply if it is not certified for use in your country.

PRELUD

Read the manual before use. Do not open the power supply case. Do not touch the internal components. Do not use the power supply if it is damaged or if it is not working properly. Do not use the power supply if it is not certified for use in your country.

SAFETY INFORMATION

Read the manual before use. Do not open the power supply case. Do not touch the internal components. Do not use the power supply if it is damaged or if it is not working properly. Do not use the power supply if it is not certified for use in your country.

請參閱說明書，瞭解詳細資訊。
請勿開啟電源供應器外殼。
請勿觸碰內部組件。
若電源供應器受損或運作不正常，請勿使用。
若電源供應器未經認證，請勿在您的國家使用。

請參閱說明書，瞭解詳細資訊。
請勿開啟電源供應器外殼。
請勿觸碰內部組件。
若電源供應器受損或運作不正常，請勿使用。
若電源供應器未經認證，請勿在您的國家使用。

請參閱說明書，瞭解詳細資訊。
請勿開啟電源供應器外殼。
請勿觸碰內部組件。
若電源供應器受損或運作不正常，請勿使用。
若電源供應器未經認證，請勿在您的國家使用。

請參閱說明書，瞭解詳細資訊。
請勿開啟電源供應器外殼。
請勿觸碰內部組件。
若電源供應器受損或運作不正常，請勿使用。
若電源供應器未經認證，請勿在您的國家使用。

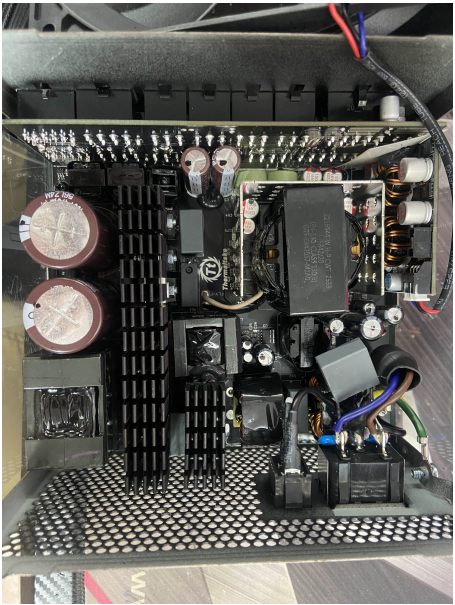
P/N PS-TTP-1000FNFAPU-1
S/N PSTPP1000FNFAPU1BLCW00047

Made in China (製造/中國製造)

Power specifications label



Fan



PSU Internals

Cybenetics [REDACTED]

ETA [REDACTED]

LAMBDA [REDACTED]

SAFE [REDACTED]

DELTA [REDACTED]

PHI [REDACTED]

CYBENETICS LTD Syrou 6, Latsia, 2231, Nicosia Cyprus

www.cybenetics.com - info@cybenetics.com