Anex

Deepcool PN1200M

Lab ID#: DC12002412
Receipt Date: Mar 29, 2024
Test Date: Apr 12, 2024

Report: 24PS2412A
Report Date: Apr 15, 2024

DUT INFORMATION

Brand	Deepcool
Manufacturer (OEM)	CWT
Series	PN-M
Model Number	PNC00M-FC
Serial Number	2024000025
DUT Notes	

DUT SPECIFICATIONS

Rated Voltage (Vrms)	100-240
Rated Current (Arms)	15-7
Rated Frequency (Hz)	50-60
Rated Power (W)	1200
Type	ATX12V
Cooling	135mm Fluid Dynamic Bearing Fan (HA13525H12SF-Z)
Semi-Passive Operation	✗
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 v3.1 PSU Power Excursion	✓

115V

Average Efficiency	88.040%
Efficiency With 10W (≤500W) or 2% (>500W)	75.306
Average Efficiency 5VSB	78.313%
Standby Power Consumption (W)	0.0376000
Average PF	0.988
Avg Noise Output	33.42 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard++

230V

Average Efficiency	90.320%
Average Efficiency 5VSB	77.522%
Standby Power Consumption (W)	0.0858000
Average PF	0.965
Avg Noise Output	32.34 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard++

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	22	22	100	3	0.3
	Watts	120		1200	15	3.6
Total Max. Power (W)		1200				

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

Hold-Up Time (ms)	15.2
AC Loss to PWR_OK Hold Up Time (ms)	13
PWR_OK Inactive to DC Loss Delay (ms)	2.2

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CABLES AND CONNECTORS

Modular Cables

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (540mm)	1	1	18AWG	No
4+4 pin EPS12V (700mm)	2	2	16AWG	No
6+2 pin PCIe (550mm)	3	3	16AWG	No
12+4 pin PCIe (600mm) (600W)	1	1	16-24AWG	No
SATA (450mm+120mm+120mm+120mm) / 4-pin Molex (+120mm)	2	8 / 2	18AWG	No

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General Data	
Manufacturer (OEM)	CWT
Platform	CSZ
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 1x X caps, 2x CM chokes, 1x MOV
Inrush Protection	1x NTC Thermistor SCK-207R0 (7 Ohm @25°C) & Relay
Bridge Rectifier(s)	2x WNB2560M (600V, 25A @ 127°C)
APFC MOSFETs	3x Infineon IPW60R099P6 (650V, 24A @ 100°C, Rds(on): 0.099Ohm)
APFC Boost Diode	1x OnSemi FFSP1665A (650V, 16A @ 135°C)
Bulk Cap(s)	1x Rubycon (420V, 820uF , 2000h @ 105°C, MXE)
Main Switchers	2x Infineon IPW60R099P6 (650V, 24A @ 100°C, Rds(on): 0.099Ohm)
APFC Controller	Champion 6500UNX & 1x Sync Power SPN5003 (No load consumption FET)
Resonant Controller	Champion CU6901VAC
Topology	Primary side: APFC, Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	10x Infineon BSC014206NS (60V, 152A @ 100°C, Rds(on): 1.45mOhm)
5V & 3.3V	DC-DC Converters: 2x UBIQ QM3054M6 (30V, 61A @ 100°C, Rds(on): 4.8mOhm) & 2x UBIQ QN3107M6N (30V, 70A @ 100°C, Rds(on): 2.6mOhm) PWM Controller(s): uPI-Semi uP3861P
Filtering Capacitors	Electrolytic: 1x Elite (2,000 @ 105°C, PF), 7x Chengx (6-10000 @ 105°C, GR), Polymer: 15x Apaq , 10x Elite ,2x
Supervisor IC	Weltrend WT7502 (OVD ,PGO, UVD,)
Fan Model	Hong Hua HA13525H12SF-Z (135mm, 12V, 0.5A, Fluid Dynamic Bearing Fan)
5VSB Circuit	
High Side Rectifier	Chongqing-Pingwei-Tech R1MF (700V, 1A @ 90°C)
Standby PWM Controller	On-Bright OB2365T

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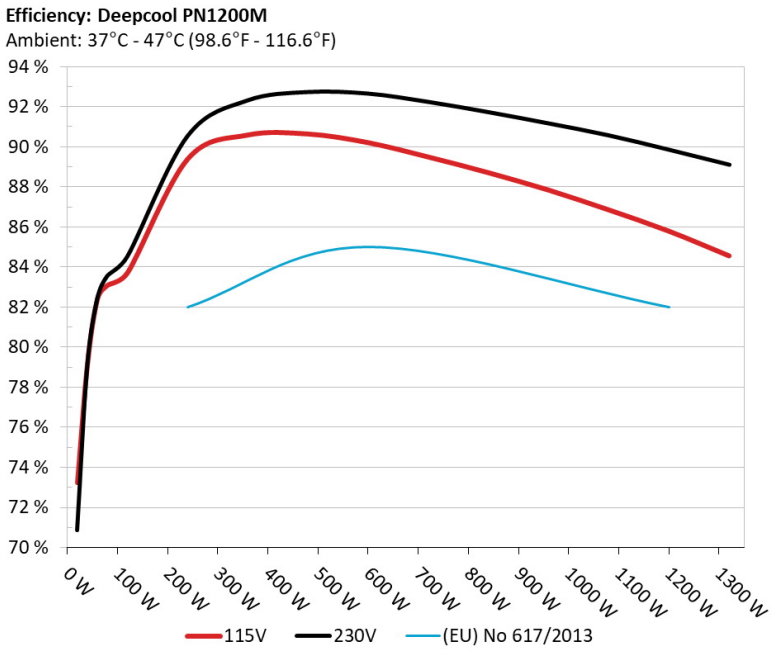
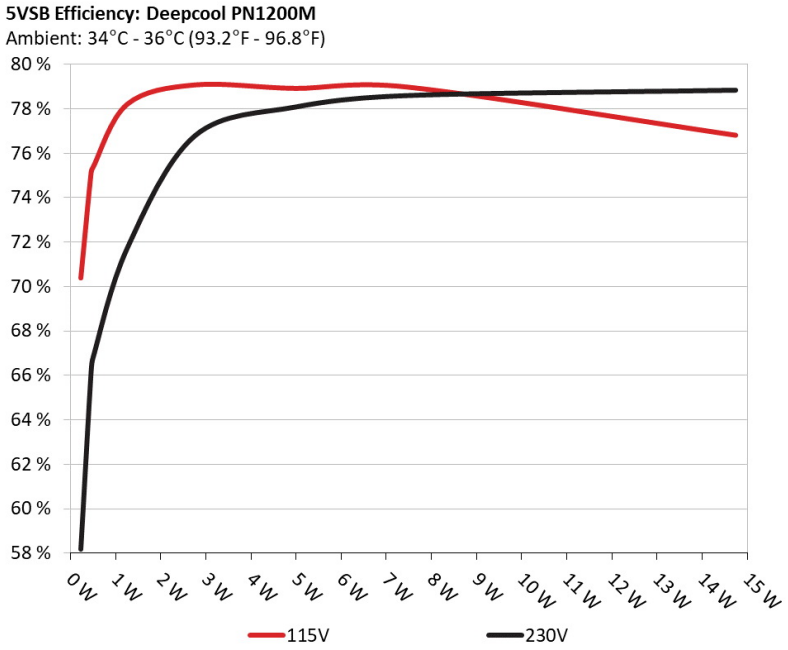
EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE



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



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	0.226W	70.368%	0.032
	5.03V	0.321W		114.89V
2	0.09A	0.453W	75.12%	0.059
	5.028V	0.603W		114.88V
3	0.55A	2.755W	79.087%	0.267
	5.01V	3.483W		114.88V
4	1A	4.992W	78.93%	0.356
	4.992V	6.325W		114.87V
5	1.5A	7.459W	78.991%	0.417
	4.972V	9.443W		114.87V
6	3A	14.736W	76.815%	0.494
	4.912V	19.184W		114.87V

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.226W	58.182%	0.011
	5.03V	0.389W		229.95V
2	0.09A	0.453W	66.157%	0.02
	5.028V	0.686W		229.94V
3	0.55A	2.755W	76.797%	0.101
	5.009V	3.587W		229.94V
4	1A	4.992W	78.095%	0.168
	4.991V	6.392W		229.94V
5	1.5A	7.458W	78.607%	0.228
	4.971V	9.489W		229.94V
6	3A	14.734W	78.847%	0.324
	4.911V	18.686W		229.94V

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115V

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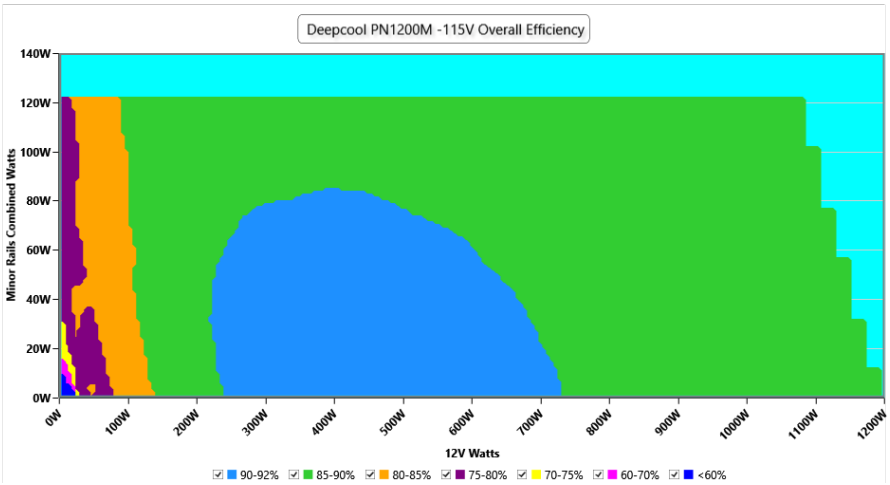
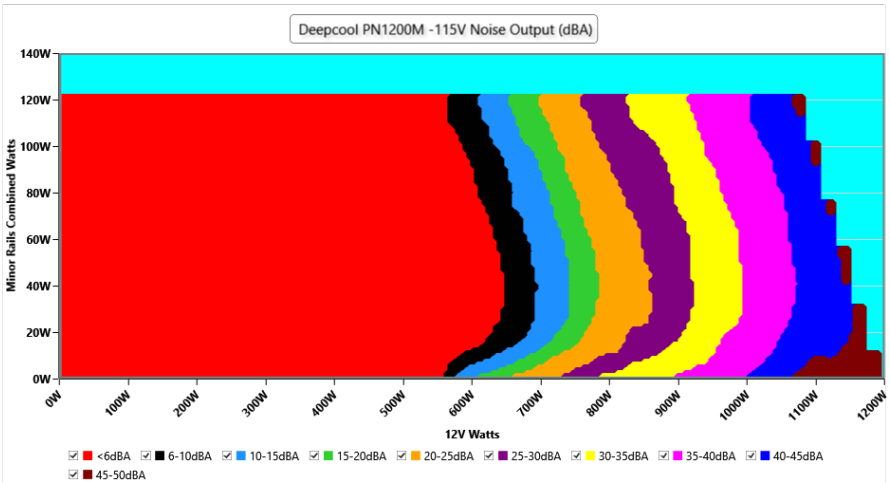
EFFICIENCY GRAPH 115V



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:	114.87 V	114.81 V	113.85 V	114.92 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.98 Hz	59.40 Hz	60.02 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.419	1.417	1.340	1.422	1.490	PASS
Mains Voltage THD:	0.16 %	0.09 %	N/A	0.29 %	2.00 %	PASS
Real Power:	0.038 W	0.033 W	N/A	0.042 W	N/A	N/A
Apparent Power:	10.067 W	10.050 W	N/A	10.089 W	N/A	N/A
Power Factor:	0.004	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%	8.089A	1.981A	1.973A	1.005A	119.997	83.724%	406	<6.0	40.18°C	0.983
	12.164V	5.05V	3.346V	4.977V	143.322				44.44°C	114.83V
20%	17.192A	2.974A	2.963A	1.21A	239.961	89.402%	408	<6.0	40.91°C	0.99
	12.160V	5.045V	3.342V	4.96V	268.409				45.49°C	114.79V
30%	26.623A	3.472A	3.461A	1.417A	359.237	90.594%	408	<6.0	41.25°C	0.983
	12.139V	5.041V	3.338V	4.942V	396.539				46.3°C	114.76V
40%	36.165A	3.972A	3.959A	1.615A	479.623	90.648%	409	<6.0	41.74°C	0.986
	12.123V	5.037V	3.334V	4.953V	529.102				47.27°C	114.71V
50%	45.343A	4.97A	4.956A	1.823A	599.352	90.217%	409	<6.0	42.29°C	0.989
	12.104V	5.032V	3.33V	4.937V	664.347				48.31°C	114.67V
60%	54.616A	5.97A	5.955A	2A	719.721	89.498%	776	17.4	42.89°C	0.991
	12.085V	5.027V	3.325V	4.921V	804.178				49.45°C	114.62V
70%	63.859A	6.971A	6.958A	2.244A	839.588	88.715%	1165	30.5	43.19°C	0.992
	12.065V	5.022V	3.32V	4.902V	946.387				50.2°C	114.58V
80%	73.198A	7.971A	7.962A	2.353A	959.548	87.848%	1567	40.5	43.83°C	0.993
	12.045V	5.018V	3.315V	4.889V	1092.29				51.98°C	114.54V
90%	82.880A	8.475A	8.455A	2.461A	1079.31	86.863%	1987	48.6	44.57°C	0.994
	12.027V	5.014V	3.311V	4.876V	1242.547				53.61°C	114.49V
100%	92.332A	8.981A	8.98A	3.1A	1199.35	85.799%	2216	49.4	45.98°C	0.994
	12.018V	5.011V	3.307V	4.839V	1397.855				56.15°C	114.44V
110%	101.695A	9.99A	10.084A	3.107A	1319.957	84.562%	2219	49.4	46.95°C	0.995
	12.013V	5.005V	3.302V	4.829V	1560.943				57.89°C	114.39V
CL1	0.114A	14.393A	14.316A	0A	121.298	78.052%	412	<6.0	41.66°C	0.986
	12.167V	5.016V	3.332V	5.008V	155.41				53.65°C	114.83V
CL2	0.114A	21.993A	0A	0A	111.317	75.405%	411	<6.0	41.02°C	0.985
	12.176V	4.998V	3.346V	5.015V	147.623				51.94°C	114.83V
CL3	0.114A	0A	21.826A	0A	73.982	71.227%	410	<6.0	41.13°C	0.975
	12.174V	5.029V	3.326V	5.012V	103.866				52.68°C	114.84V
CL4	99.768A	0A	0A	0A	1199.907	86.387%	2215	49.4	45.78°C	0.994
	12.027V	5.027V	3.319V	4.98V	1389.008				58.03°C	114.45V

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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	1.221A	0.494A	0.493A	0.199A	19.998	73.233%	400	<6.0	36.59°C	0.836
	12.160V	5.057V	3.348V	5.019V	27.311				39.71°C	114.88V
40W	2.688A	0.692A	0.69A	0.299A	39.999	79.199%	402	<6.0	37.6°C	0.929
	12.157V	5.056V	3.348V	5.014V	50.505				40.9°C	114.87V
60W	4.156A	0.89A	0.887A	0.399A	59.999	82.436%	403	<6.0	38.38°C	0.967
	12.155V	5.055V	3.348V	5.008V	72.784				42.07°C	114.86V
80W	5.616A	1.089A	1.084A	0.5A	79.946	83.092%	405	<6.0	39.38°C	0.976
	12.166V	5.053V	3.348V	5.002V	96.214				43.24°C	114.85V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	12.74mV	12.88mV	13.39mV	7.95mV	Pass
20% Load	12.48mV	12.83mV	13.60mV	8.88mV	Pass
30% Load	14.59mV	12.98mV	13.65mV	10.53mV	Pass
40% Load	15.67mV	13.35mV	14.38mV	10.17mV	Pass
50% Load	15.47mV	16.43mV	15.00mV	11.36mV	Pass
60% Load	17.73mV	25.19mV	18.20mV	12.75mV	Pass
70% Load	17.53mV	29.26mV	18.87mV	13.73mV	Pass
80% Load	18.82mV	20.14mV	16.08mV	15.28mV	Pass
90% Load	20.21mV	19.73mV	16.70mV	15.74mV	Pass
100% Load	28.72mV	21.16mV	19.28mV	20.68mV	Pass
110% Load	28.76mV	23.06mV	19.58mV	21.42mV	Pass
Crossload1	14.94mV	15.31mV	15.85mV	7.93mV	Pass
Crossload2	15.26mV	22.57mV	13.44mV	9.19mV	Pass
Crossload3	14.85mV	13.60mV	19.08mV	9.03mV	Pass
Crossload4	27.39mV	19.26mV	18.68mV	10.42mV	Pass

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230V

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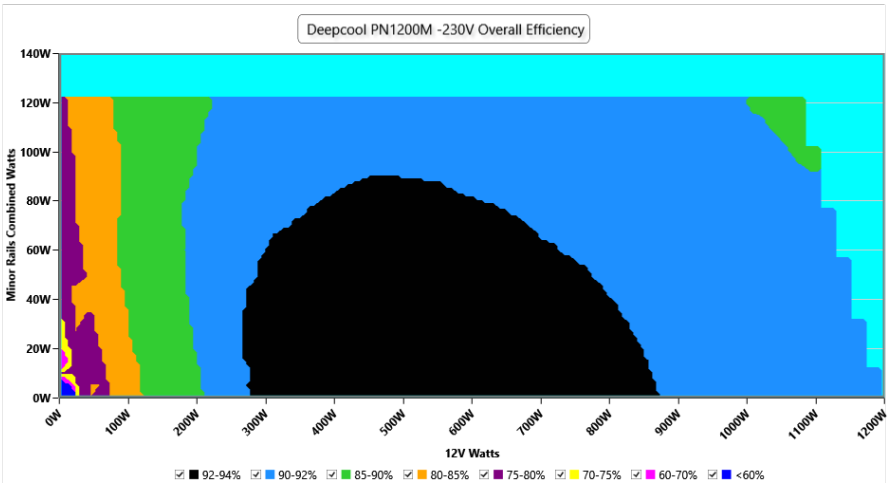
EFFICIENCY GRAPH 230V



INFO

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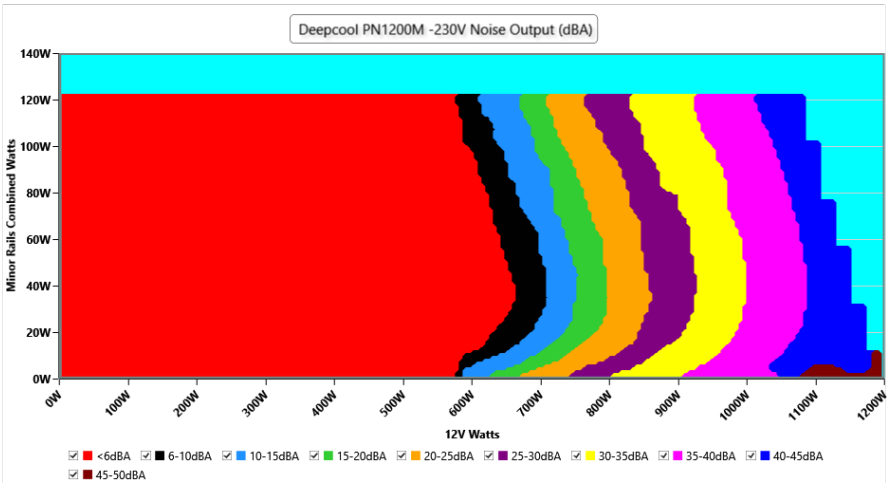
NOISE GRAPH 230V



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VAMPIRE POWER -230V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	229.94 V	229.88 V	227.70 V	230.00 V	232.30 V	PASS
Mains Frequency:	50.00 Hz	49.99 Hz	49.50 Hz	50.01 Hz	50.50 Hz	PASS
Mains Voltage CF:	1.417	1.416	1.340	1.419	1.490	PASS
Mains Voltage THD:	0.17 %	0.14 %	N/A	0.23 %	2.00 %	PASS
Real Power:	0.086 W	0.076 W	N/A	0.123 W	N/A	N/A
Apparent Power:	34.054 W	34.026 W	N/A	34.086 W	N/A	N/A
Power Factor:	0.002	N/A	N/A	N/A	N/A	N/A

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Deepcool PN1200M

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%	8.087A	1.981A	1.972A	1.005A	119.985	84.533%	406	<6.0	40.4°C	0.903
	12.165V	5.049V	3.346V	4.977V	141.937				44.62°C	229.92V
20%	17.190A	2.974A	2.962A	1.21A	239.944	90.536%	408	<6.0	40.85°C	0.956
	12.161V	5.044V	3.342V	4.96V	265.027				45.36°C	229.9V
30%	26.617A	3.472A	3.46A	1.416A	359.174	92.312%	408	<6.0	41.37°C	0.97
	12.140V	5.04V	3.338V	4.943V	389.087				46.41°C	229.88V
40%	36.160A	3.972A	3.959A	1.615A	479.565	92.735%	408	<6.0	41.64°C	0.976
	12.123V	5.036V	3.334V	4.954V	517.136				47.15°C	229.86V
50%	45.337A	4.97A	4.955A	1.823A	599.297	92.656%	409	<6.0	42.41°C	0.979
	12.105V	5.031V	3.33V	4.938V	646.798				48.51°C	229.84V
60%	54.614A	5.97A	5.956A	2A	719.71	92.242%	864	21.1	42.7°C	0.98
	12.086V	5.026V	3.325V	4.922V	780.245				49.38°C	229.83V
70%	63.856A	6.971A	6.959A	2.244A	839.576	91.732%	1211	31.6	43.36°C	0.983
	12.065V	5.022V	3.32V	4.903V	915.254				50.39°C	229.81V
80%	73.203A	7.973A	7.964A	2.352A	959.576	91.169%	1570	40.6	43.74°C	0.984
	12.045V	5.017V	3.315V	4.889V	1052.519				51.8°C	229.79V
90%	82.894A	8.477A	8.458A	2.462A	1079.372	90.573%	1965	49.4	44.05°C	0.985
	12.026V	5.014V	3.31V	4.875V	1191.706				53.16°C	229.77V
100%	92.350A	8.983A	8.984A	3.1A	1199.396	89.858%	2215	49.4	45.23°C	0.986
	12.016V	5.01V	3.306V	4.839V	1334.777				55.24°C	229.74V
110%	101.720A	9.992A	10.088A	3.107A	1320.004	89.11%	2215	49.4	46.25°C	0.986
	12.011V	5.004V	3.301V	4.828V	1481.329				57.13°C	229.72V
CL1	0.115A	14.397A	14.319A	0A	121.3	79.472%	410	<6.0	41.87°C	0.91
	12.166V	5.015V	3.331V	5.008V	152.632				57.31°C	229.93V
CL2	0.114A	21.996A	0A	0A	111.323	76.351%	409	<6.0	41.25°C	0.905
	12.175V	4.998V	3.346V	5.015V	145.803				57.22°C	229.92V
CL3	0.114A	0A	21.834A	0A	73.983	71.618%	408	<6.0	40.35°C	0.847
	12.172V	5.029V	3.325V	5.012V	103.306				55.37°C	229.93V
CL4	99.805A	0A	0A	0A	1199.976	90.501%	2214	49.4	45.21°C	0.986
	12.023V	5.028V	3.318V	4.979V	1325.937				61.93°C	229.74V

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Anex

Deepcool PN1200M

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	1.220A	0.494A	0.493A	0.199A	19.991	70.89%	399	<6.0	36.71°C	0.448
	12.159V	5.057V	3.347V	5.02V	27.967				39.83°C	229.96V
40W	2.688A	0.692A	0.69A	0.299A	39.993	79.044%	401	<6.0	37.45°C	0.652
	12.158V	5.056V	3.348V	5.014V	50.595				40.83°C	229.95V
60W	4.156A	0.89A	0.887A	0.399A	59.993	82.408%	402	<6.0	38.57°C	0.76
	12.155V	5.054V	3.348V	5.008V	72.799				42.22°C	229.94V
80W	5.614A	1.089A	1.084A	0.5A	79.934	83.562%	404	<6.0	39.08°C	0.835
	12.166V	5.052V	3.348V	5.002V	96.817				42.93°C	229.93V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	12.42mV	11.90mV	13.75mV	9.03mV	Pass
20% Load	13.41mV	13.14mV	14.22mV	9.09mV	Pass
30% Load	14.59mV	13.14mV	15.00mV	9.40mV	Pass
40% Load	14.23mV	13.60mV	13.44mV	9.39mV	Pass
50% Load	15.98mV	14.68mV	14.01mV	9.96mV	Pass
60% Load	17.79mV	28.44mV	18.00mV	10.48mV	Pass
70% Load	17.43mV	29.57mV	19.91mV	14.19mV	Pass
80% Load	18.77mV	19.63mV	18.72mV	13.21mV	Pass
90% Load	20.16mV	19.06mV	18.41mV	13.78mV	Pass
100% Load	28.06mV	21.30mV	19.66mV	16.78mV	Pass
110% Load	30.86mV	22.49mV	19.35mV	18.94mV	Pass
Crossload1	13.64mV	16.23mV	15.81mV	8.47mV	Pass
Crossload2	15.26mV	24.57mV	12.98mV	9.34mV	Pass
Crossload3	13.72mV	13.35mV	18.72mV	9.34mV	Pass
Crossload4	27.84mV	18.74mV	17.93mV	11.13mV	Pass

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Cybenetics offers the ETA and Lambda voluntary certification programs, through which the efficient and silent power supplies are promoted

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Anex

Deepcool PN1200M

Top side

Power specifications label

CERTIFICATIONS 115V

CERTIFICATIONS 230V

Aristeidis Bitziopoulos
Lab Director

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