

Anex

Deepcool PL800D

Lab ID#: DC80002429
 Receipt Date: Apr 19, 2024
 Test Date: Apr 26, 2024

Report: 24PS2429A
 Report Date: May 2, 2024

DUT INFORMATION	
Brand	Deepcool
Manufacturer (OEM)	Helly Technology
Series	PL-D
Model Number	PL800D-FC
Serial Number	10000143161B4241500001
DUT Notes	

DUT SPECIFICATIONS	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	10-5
Rated Frequency (Hz)	50-60
Rated Power (W)	800
Type	ATX12V
Cooling	120mm Hydraulic Bearing Fan (W12025HZ12SEMA)
Semi-Passive Operation	X
Cable Design	Fixed cables

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	86.211%
Efficiency With 10W (≤500W) or 2% (>500W)	63.504
Average Efficiency 5VSB	81.264%
Standby Power Consumption (W)	0.0338000
Average PF	0.986
Avg Noise Output	35.86 dB(A)
Efficiency Rating (ETA)	SILVER
Noise Rating (LAMBDA)	Standard+

230V

Average Efficiency	88.646%
Average Efficiency 5VSB	81.429%
Standby Power Consumption (W)	0.0681000
Average PF	0.942
Avg Noise Output	35.87 dB(A)
Efficiency Rating (ETA)	SILVER
Noise Rating (LAMBDA)	Standard+

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	66.5	3	0.3
	Watts	100		798	15	3.6
Total Max. Power (W)		800				

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

Hold-Up Time (ms)	19.8
AC Loss to PWR_OK Hold Up Time (ms)	17.3
PWR_OK Inactive to DC Loss Delay (ms)	2.5

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CABLES AND CONNECTORS

Captive Cables

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (560mm)	1	1	18-22AWG	No
4+4 pin EPS12V (735mm)	2	2	18AWG	No
6+2 pin PCIe (590mm+120mm)	1	2	18AWG	No
6+2 pin PCIe (580mm)	1	1	18AWG	No
12+2 pin PCIe (590mm) (600W)	1	1	16-26AWG	No
SATA (445mm+105mm+105mm+105mm) / 4-pin Molex (+100mm)	2	8 / 2	18AWG	No

Modular Cables

AC Power Cord (1385mm) - C13 coupler	1	1	18AWG	-
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Deepcool PL800D

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-20 (10 Ohm @25°C) & Relay
Bridge Rectifier(s)	2x GBU1508 ((560V, 15A @ 100°C)
APFC MOSFETs	2x Oriental Semiconductor OSG55R140FF (550V, 14.5A @ 100°C, Rds(on): 0.140hm)
APFC Boost Diode	1x WeEN BYC15X-600P (600V, 10A @ 25°C)
Bulk Cap(s)	1x Chengx (420V, 560uF @ 105°C, LS)
Main Switchers	2x FuXin Semiconductor FXN28N50F (500V, 16.7A @ 100°C, Rds(on): 0.200hm)
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: 9x 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

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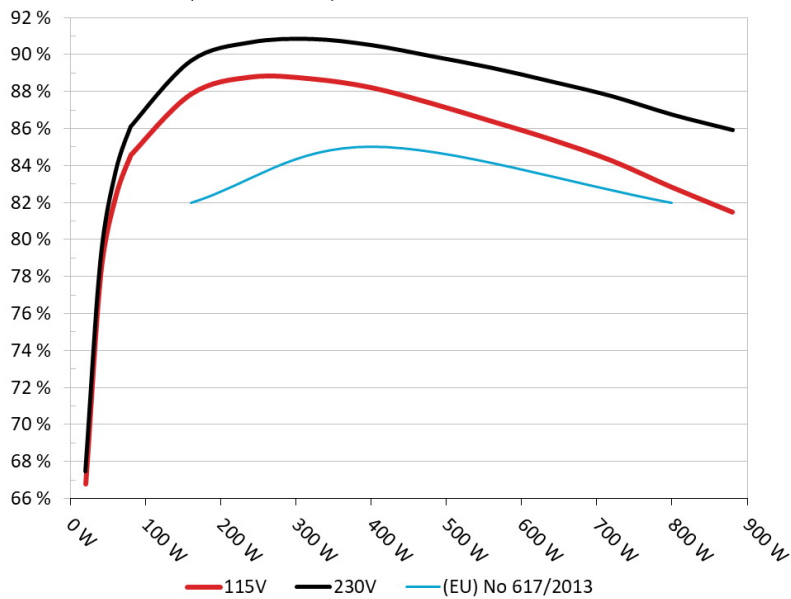
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EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

Efficiency: Deepcool PL800D

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



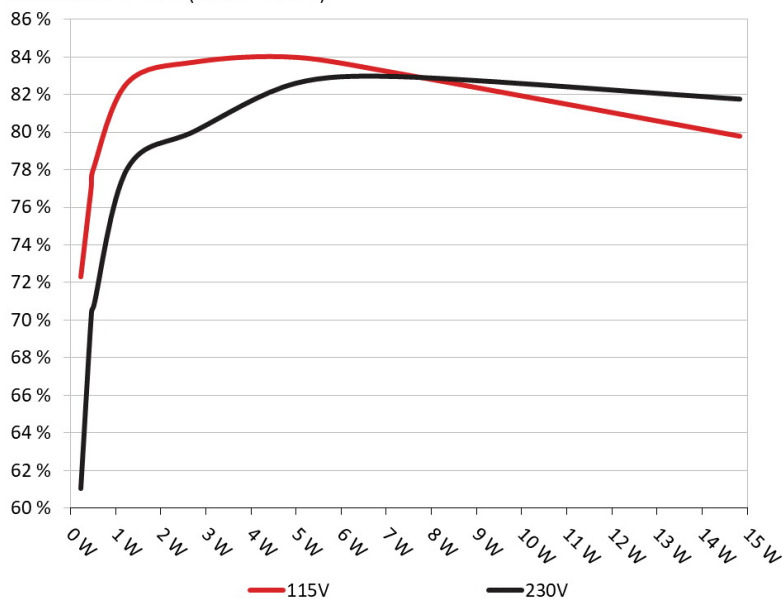
INFO

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: Deepcool PL800D

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	0.226W	72.3%	0.037
	5.028V	0.313W		115.16V
2	0.09A	0.453W	77.006%	0.068
	5.027V	0.588W		115.16V
3	0.55A	2.758W	83.743%	0.296
	5.014V	3.294W		115.15V
4	1A	5.002W	83.992%	0.404
	5.001V	5.955W		115.15V
5	1.5A	7.481W	83.041%	0.467
	4.986V	9.009W		115.15V
6	3A	14.83W	79.791%	0.538
	4.943V	18.586W		115.14V

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.226W	61.065%	0.013
	5.028V	0.37W		230.36V
2	0.09A	0.462W	70.427%	0.022
	5.027V	0.656W		230.36V
3	0.55A	2.758W	80.046%	0.116
	5.014V	3.445W		230.36V
4	1A	5.002W	82.588%	0.189
	5.001V	6.056W		230.36V
5	1.5A	7.481W	82.912%	0.255
	4.987V	9.023W		230.36V
6	3A	14.831W	81.74%	0.373
	4.943V	18.144W		230.35V

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Deepcool PL800D

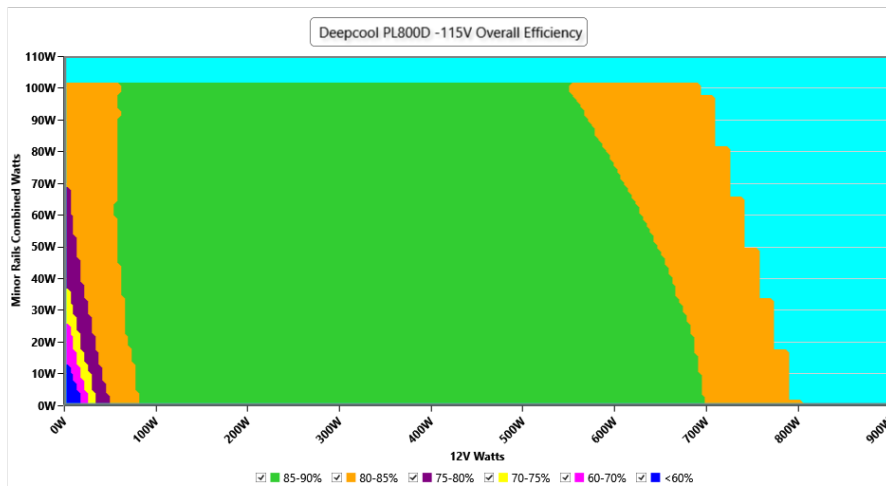
115V

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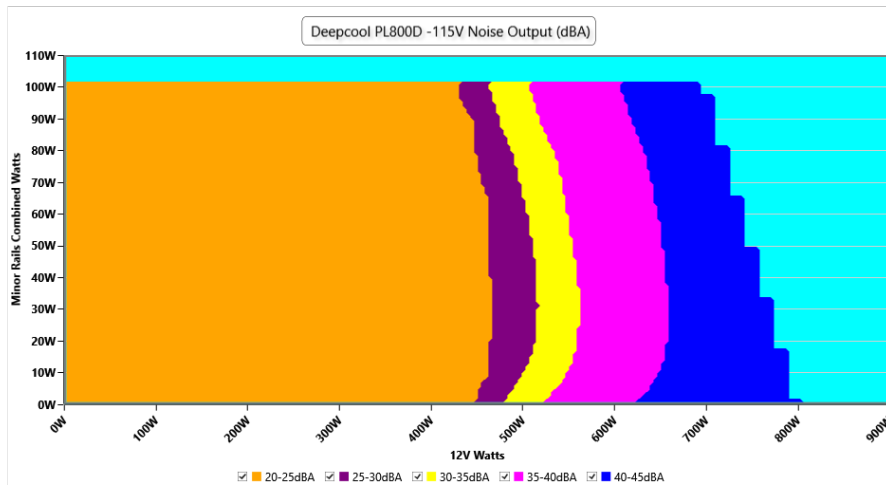
EFFICIENCY GRAPH 115V



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:	115.16 V	115.12 V	113.85 V	115.18 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:	0.034 W	0.007 W	N/A	0.048 W	N/A	N/A
Apparent Power:	8.447 W	8.442 W	N/A	8.453 W	N/A	N/A
Power Factor:	0.005	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%	4.881A	1.963A	1.98A	1.002A	80	84.049%	1071	25.5	40.49°C	0.948
	11.965V	5.096V	3.333V	4.992V	95.181				44.76°C	115.12V
20%	10.792A	2.945A	2.974A	1.205A	159.944	87.87%	1076	25.5	40.65°C	0.972
	11.958V	5.093V	3.328V	4.978V	182.021				45.21°C	115.1V
30%	17.063A	3.438A	3.474A	1.41A	239.985	88.799%	1080	25.6	41.22°C	0.984
	11.951V	5.092V	3.325V	4.965V	270.255				46.27°C	115.09V
40%	23.343A	3.93A	3.973A	1.616A	320.04	88.703%	1087	25.6	41.71°C	0.989
	11.945V	5.09V	3.322V	4.951V	360.788				47.22°C	115.06V
50%	29.225A	4.916A	4.974A	1.824A	399.373	88.231%	1091	25.9	42.16°C	0.992
	11.937V	5.087V	3.317V	4.936V	452.646				48.27°C	115.05V
60%	35.212A	5.902A	5.978A	2A	479.724	87.376%	1392	32.6	42.88°C	0.993
	11.930V	5.084V	3.312V	4.922V	549.034				49.38°C	115.02V
70%	41.141A	6.89A	6.986A	2.242A	559.587	86.412%	1737	39.8	43.32°C	0.994
	11.921V	5.081V	3.307V	4.906V	647.582				50.35°C	115V
80%	47.147A	7.877A	7.995A	2.35A	639.598	85.418%	2006	43.0	43.67°C	0.995
	11.914V	5.078V	3.302V	4.894V	748.784				51.84°C	114.98V
90%	53.496A	8.374A	8.488A	2.458A	719.427	84.278%	2094	44.2	44.69°C	0.995
	11.906V	5.075V	3.298V	4.883V	853.639				53.82°C	114.95V
100%	59.653A	8.869A	9.013A	3.09A	799.45	82.843%	2101	44.4	45.63°C	0.996
	11.898V	5.073V	3.295V	4.855V	965.029				55.64°C	114.93V
110%	65.749A	9.862A	10.123A	3.096A	880.057	81.497%	2105	44.4	46.73°C	0.996
	11.890V	5.07V	3.289V	4.846V	1079.906				57.63°C	114.9V
CL1	0.117A	11.846A	12.006A	0A	101.291	80.707%	1108	26.5	40.86°C	0.958
	11.958V	5.082V	3.306V	5.007V	125.509				51.13°C	115.12V
CL2	0.117A	19.713A	0A	0A	101.389	80.192%	1109	26.5	40.22°C	0.958
	11.962V	5.073V	3.34V	5.014V	126.432				47.72°C	115.12V
CL3	0.117A	0A	20.075A	0A	67.387	74.858%	1082	25.5	40.77°C	0.949
	11.958V	5.1V	3.287V	5.009V	90.018				46.32°C	115.13V
CL4	67.186A	0.001A	0A	0.002A	800.083	83.816%	2101	44.4	45.21°C	0.996
	11.908V	5.087V	3.321V	4.958V	954.606				54.94°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	1.240A	0.49A	0.494A	0.199A	20.002	66.793%	1051	24.8	36.59°C	0.929
	11.970V	5.099V	3.338V	5.022V	29.947				39.72°C	115.15V
40W	2.732A	0.687A	0.692A	0.299A	39.999	78.175%	1059	25.2	37.92°C	0.974
	11.969V	5.098V	3.337V	5.017V	51.166				41.26°C	115.14V
60W	4.222A	0.883A	0.89A	0.399A	59.997	82.348%	1063	25.3	38.43°C	0.953
	11.967V	5.097V	3.336V	5.013V	72.862				41.96°C	115.13V
80W	5.710A	1.079A	1.088A	0.499A	79.952	84.583%	1062	25.3	39.07°C	0.948
	11.965V	5.097V	3.335V	5.008V	94.526				42.87°C	115.13V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	7.84mV	9.49mV	6.10mV	6.57mV	Pass
20% Load	8.75mV	9.85mV	6.36mV	7.03mV	Pass
30% Load	9.56mV	10.66mV	7.07mV	8.25mV	Pass
40% Load	9.31mV	9.74mV	6.36mV	7.34mV	Pass
50% Load	11.65mV	12.19mV	8.09mV	9.22mV	Pass
60% Load	13.99mV	13.57mV	9.10mV	10.60mV	Pass
70% Load	15.42mV	14.48mV	9.97mV	12.68mV	Pass
80% Load	17.51mV	16.53mV	17.85mV	17.02mV	Pass
90% Load	22.13mV	18.36mV	19.23mV	22.62mV	Pass
100% Load	36.18mV	23.20mV	22.64mV	25.23mV	Pass
110% Load	42.62mV	25.15mV	25.42mV	22.39mV	Pass
Crossload1	12.05mV	14.40mV	17.58mV	6.81mV	Pass
Crossload2	9.36mV	15.41mV	9.05mV	7.03mV	Pass
Crossload3	8.45mV	10.97mV	17.80mV	5.91mV	Pass
Crossload4	36.96mV	21.48mV	15.68mV	15.61mV	Pass

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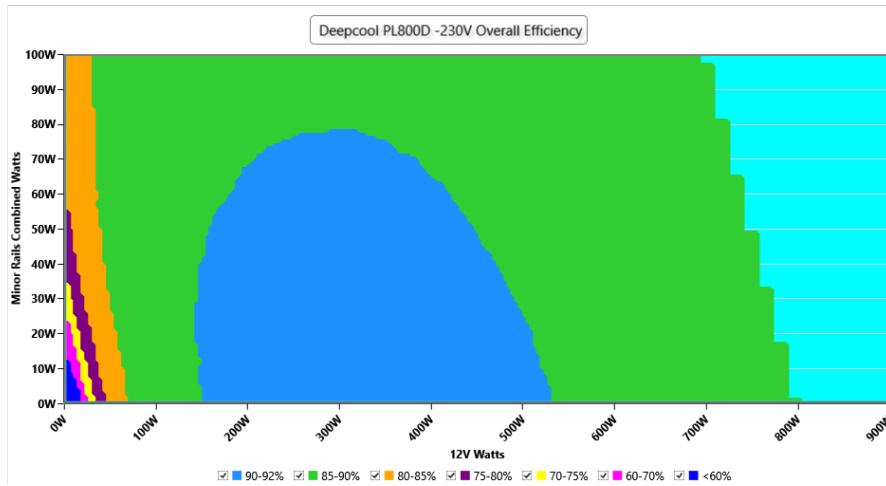
230V

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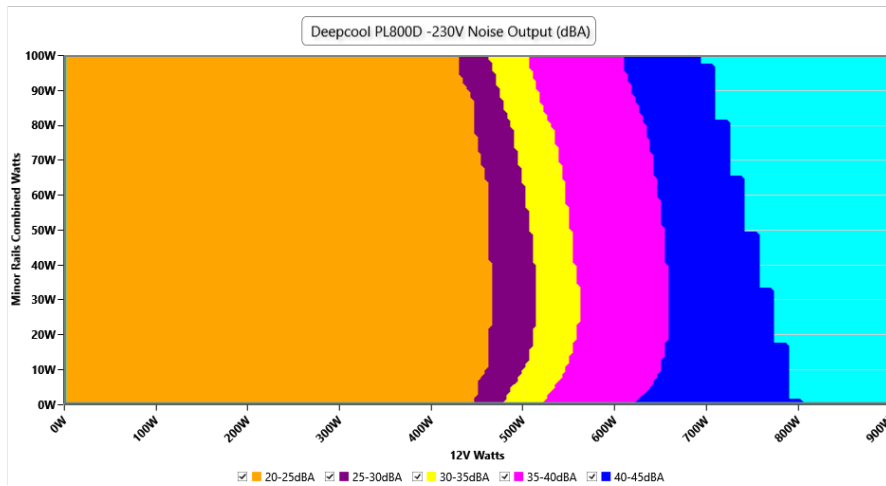
EFFICIENCY GRAPH 230V



INFO

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NOISE GRAPH 230V



INFO

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VAMPIRE POWER -230V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.37 V	230.35 V	227.70 V	230.40 V	232.30 V	PASS
Mains Frequency:	50.00 Hz	50.00 Hz	49.50 Hz	50.01 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:	0.068 W	0.057 W	N/A	0.078 W	N/A	N/A
Apparent Power:	28.311 W	28.300 W	N/A	28.324 W	N/A	N/A
Power Factor:	0.002	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%	4.881A	1.963A	1.98A	1.002A	80.004	85.591%	1078	25.5	40.37°C	0.847
	11.964V	5.095V	3.333V	4.992V	93.475				44.61°C	230.37V
20%	10.794A	2.946A	2.975A	1.206A	159.966	89.666%	1082	25.5	40.79°C	0.906
	11.957V	5.093V	3.328V	4.978V	178.405				45.31°C	230.36V
30%	17.067A	3.439A	3.474A	1.411A	240.014	90.676%	1085	25.6	41.24°C	0.932
	11.950V	5.091V	3.325V	4.964V	264.693				46.26°C	230.36V
40%	23.349A	3.931A	3.974A	1.617A	320.072	90.855%	1088	25.7	41.6°C	0.946
	11.944V	5.089V	3.322V	4.95V	352.289				47.21°C	230.35V
50%	29.236A	4.917A	4.974A	1.824A	399.469	90.528%	1098	26.0	42.21°C	0.955
	11.936V	5.086V	3.318V	4.935V	441.267				48.21°C	230.34V
60%	35.224A	5.904A	5.978A	2.001A	479.835	89.927%	1423	33.1	42.72°C	0.963
	11.929V	5.083V	3.313V	4.921V	533.584				49.23°C	230.33V
70%	41.155A	6.893A	6.985A	2.243A	559.703	89.297%	1759	39.7	43.31°C	0.969
	11.920V	5.08V	3.308V	4.905V	626.787				50.4°C	230.33V
80%	47.161A	7.88A	7.993A	2.351A	639.722	88.55%	2032	43.4	43.94°C	0.973
	11.913V	5.076V	3.303V	4.893V	722.443				51.95°C	230.31V
90%	53.510A	8.377A	8.486A	2.459A	719.553	87.761%	2103	44.4	44.37°C	0.977
	11.905V	5.074V	3.299V	4.881V	819.905				53.39°C	230.3V
100%	59.666A	8.873A	9.011A	3.091A	799.577	86.764%	2111	44.5	45.61°C	0.98
	11.897V	5.072V	3.295V	4.853V	921.546				55.62°C	230.29V
110%	65.763A	9.866A	10.12A	3.097A	880.176	85.931%	2113	44.5	46.75°C	0.983
	11.889V	5.068V	3.29V	4.844V	1024.332				57.64°C	230.27V
CL1	0.117A	11.85A	11.997A	0A	101.301	82.365%	1109	26.5	40.26°C	0.879
	11.956V	5.08V	3.309V	5.006V	122.992				50.95°C	230.37V
CL2	0.117A	19.718A	0A	0A	101.397	81.678%	1111	26.5	40.34°C	0.879
	11.960V	5.071V	3.34V	5.013V	124.14				48.06°C	230.37V
CL3	0.117A	0A	20.055A	0A	67.392	76.286%	1083	25.5	41.2°C	0.842
	11.956V	5.098V	3.291V	5.009V	88.344				45.32°C	230.39V
CL4	67.198A	0.001A	0A	0.002A	800.164	87.567%	2103	44.4	45.76°C	0.98
	11.908V	5.088V	3.321V	4.957V	913.794				55.68°C	230.32V

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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	1.240A	0.49A	0.494A	0.199A	20.003	67.469%	1060	25.2	36.67°C	0.603
	11.969V	5.098V	3.338V	5.022V	29.645				39.83°C	230.38V
40W	2.732A	0.687A	0.692A	0.299A	40.002	78.874%	1064	25.4	37.59°C	0.754
	11.968V	5.097V	3.337V	5.017V	50.721				40.87°C	230.37V
60W	4.222A	0.883A	0.89A	0.399A	60.001	83.651%	1068	25.5	38.04°C	0.819
	11.966V	5.096V	3.336V	5.012V	71.726				41.63°C	230.37V
80W	5.711A	1.08A	1.088A	0.499A	79.965	86.11%	1070	25.6	39.36°C	0.846
	11.965V	5.096V	3.335V	5.007V	92.863				43.12°C	230.37V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	7.53mV	9.44mV	5.69mV	6.27mV	Pass
20% Load	8.60mV	9.59mV	6.26mV	6.78mV	Pass
30% Load	10.28mV	10.41mV	6.67mV	7.49mV	Pass
40% Load	10.94mV	11.47mV	7.43mV	8.41mV	Pass
50% Load	13.03mV	11.84mV	7.98mV	9.17mV	Pass
60% Load	13.89mV	13.11mV	8.95mV	9.88mV	Pass
70% Load	16.13mV	14.33mV	10.17mV	11.31mV	Pass
80% Load	17.40mV	16.48mV	17.95mV	12.28mV	Pass
90% Load	21.12mV	18.26mV	19.58mV	13.75mV	Pass
100% Load	33.16mV	22.03mV	22.65mV	18.40mV	Pass
110% Load	40.31mV	24.54mV	25.35mV	20.34mV	Pass
Crossload1	10.81mV	14.41mV	17.98mV	6.96mV	Pass
Crossload2	8.80mV	14.79mV	8.95mV	6.88mV	Pass
Crossload3	8.14mV	9.85mV	17.44mV	5.66mV	Pass
Crossload4	34.86mV	20.86mV	15.30mV	14.68mV	Pass

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Anex

Deepcool PL800D

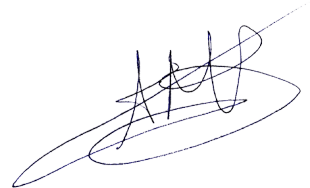


Top side



Power specifications label

CERTIFICATIONS 115V

Aristeidis Bitziopoulos
Lab Director

CERTIFICATIONS 230V



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