

## Anex

Deepcool PN850M

Lab ID#: DC85002313  
Receipt Date: Dec 12, 2023  
Test Date: Dec 22, 2023

Report: 23PS2313A  
Report Date: Jan 3, 2024

DUT INFORMATION		DUT SPECIFICATIONS	
Brand	Deepcool	Rated Voltage (Vrms)	100-240
Manufacturer (OEM)	CWT	Rated Current (Arms)	10-5
Series	PN-M	Rated Frequency (Hz)	50-60
Model Number	PN850M-FC	Rated Power (W)	850
Serial Number		Type	ATX12V
DUT Notes		Cooling	120mm Rifle Bearing Fan (DF1202512SEHN)
		Semi-Passive Operation	X
		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	88.943%
Efficiency With 10W (≤500W) or 2% (>500W)	69.192
Average Efficiency 5VSB	78.500%
Standby Power Consumption (W)	0.0553000
Average PF	0.978
Avg Noise Output	35.19 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard+

### 230V

Average Efficiency	91.024%
Average Efficiency 5VSB	78.224%
Standby Power Consumption (W)	0.1168000
Average PF	0.933
Avg Noise Output	34.09 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard++

### POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	70.5	3	0.3
	Watts	110		846	15	3.6
Total Max. Power (W)		850				

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

Hold-Up Time (ms)	20.3
AC Loss to PWR_OK Hold Up Time (ms)	19.1
PWR_OK Inactive to DC Loss Delay (ms)	1.2

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### CABLES AND CONNECTORS

#### Modular Cables

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (550mm)	1	1	18AWG	No
4+4 pin EPS12V (700mm)	2	2	18AWG	No
6+2 pin PCIe (550mm)	3	3	18AWG	No
12+4 pin PCIe (600mm) (450W)	1	1	16-24AWG	No
SATA (480mm+120mm+120mm+120mm) / 4-pin Molex (+120mm)	2	8 / 2	18AWG	No

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## Deepcool PN850M

General Data	-
Manufacturer (OEM)	CWT
Platform Model	GPX
PCB Type	Double-Sided
Primary Side	-
Transient Filter	2x Y caps, 1x X caps, 2x CM chokes, 1x MOV , 1x CAP200DG (Discharge IC)
Inrush Protection	NTC Thermistor SCK056 (5 Ohm @ 25°C) & Relay
Bridge Rectifier(s)	1x Yangjie Electronic GBU1506 (600V, 15A @ 100°C)
APFC MOSFETs	2x Great Power GP28S50 (500V, 28A, Rds(on): 0.125Ohm) & 1x SPN5003 FET (for reduced no-load consumption)
APFC Boost Diode	1x CRXI06D065G2
Bulk Cap(s)	1x Nippon Chemi-Con (400V, 680uF, 2000h @ 105°C, KMW)
Main Switchers	4x Silan MicroelectronicsSVF20N50F (500V, 12.6A @ 100°C, Rds(on): 0.270Ohm)
APFC Controller	Champion 6500UNX
Resonant Controller	Champion CM6901X
Topology	Primary side: APFC, Full-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	-
+12V MOSFETs	6x IPS 014N04SA
5V & 3.3V	DC-DC Converters: 4x UBIQ QM3054M6 (30V, 97A @ 25°C, Rds(on): 4.8mOhm) PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic: 15x Chengx (2,000 @ 105°C, GR) Polymer: 27x FCAP
Supervisor IC	IN1S429I - DCG
Fan Model	MARTECH DF1202512SEHN (120mm, 12V, 0.42A, Rifle Bearing Fan)
5VSB Circuit	-
Rectifier	-
Standby PWM Controller	Power Integrations TNY287PG

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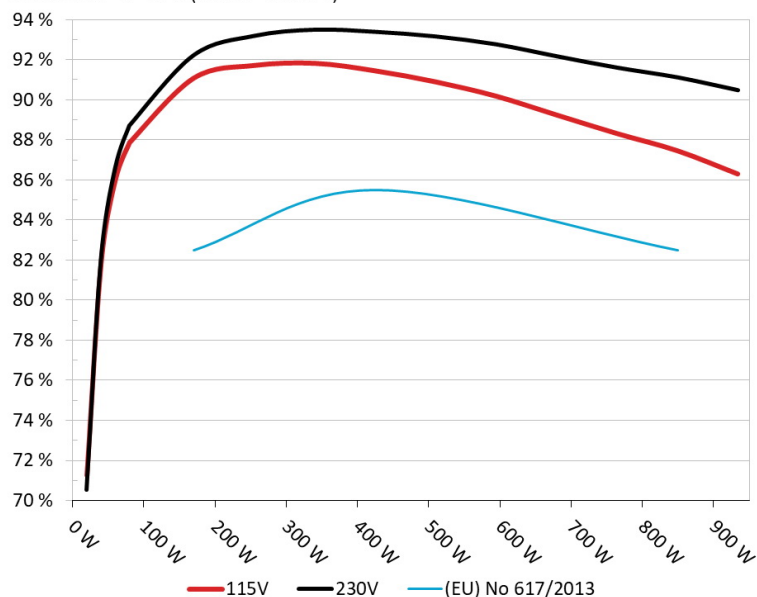
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### EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

#### Efficiency: Deepcool PN850M

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



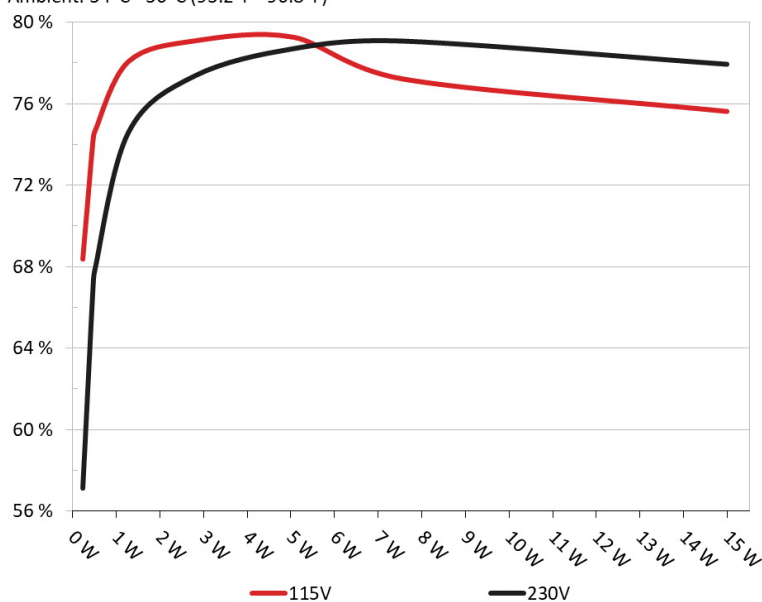
#### INFO

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 PN850M

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	0.229W	68.883%	0.032
	5.091V	0.333W		114.86V
2	0.09A	0.458W	74.611%	0.058
	5.09V	0.614W		114.85V
3	0.55A	2.792W	79.596%	0.261
	5.076V	3.508W		114.85V
4	1A	5.061W	79.775%	0.361
	5.061V	6.345W		114.85V
5	1.5A	7.565W	77.723%	0.409
	5.043V	9.733W		114.85V
6	3A	14.985W	76.133%	0.48
	4.995V	19.683W		114.85V

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.229W	57.613%	0.011
	5.093V	0.398W		229.87V
2	0.09A	0.458W	67.274%	0.019
	5.091V	0.682W		229.86V
3	0.55A	2.791W	77.847%	0.097
	5.075V	3.585W		229.86V
4	1A	5.061W	79.191%	0.163
	5.061V	6.391W		229.87V
5	1.5A	7.567W	79.558%	0.204
	5.044V	9.511W		229.87V
6	3A	14.983W	78.42%	0.317
	4.994V	19.107W		229.86V

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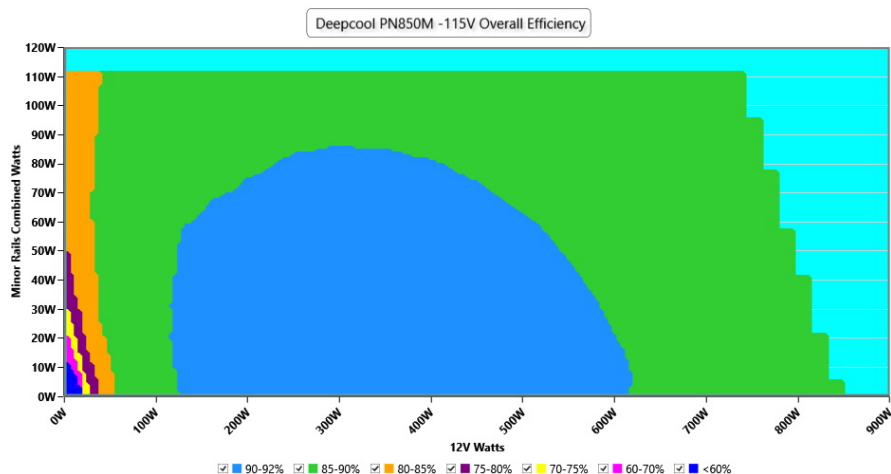
# 115V

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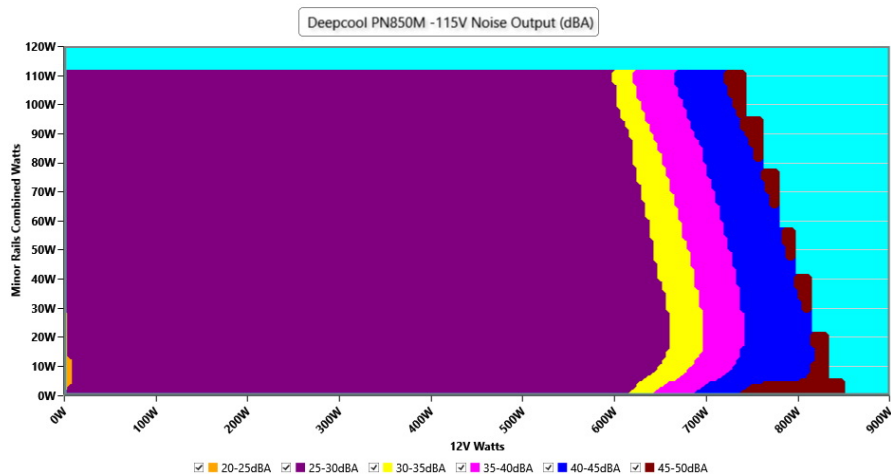
### EFFICIENCY GRAPH 115V



#### 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	114.78 V	113.85 V	114.97 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.97 Hz	59.40 Hz	60.03 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.422	1.419	1.340	1.424	1.490	PASS
Mains Voltage THD:	0.15 %	0.11 %	N/A	0.29 %	2.00 %	PASS
Real Power:	0.055 W	0.039 W	N/A	0.074 W	N/A	N/A
Apparent Power:	11.362 W	11.328 W	N/A	11.402 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%	5.279A	1.986A	1.968A	0.991A	85.001	87.371%	1105	26.7	40.08°C	0.96
	12.011V	5.035V	3.353V	5.048V	97.286				44.36°C	114.83V
20%	11.582A	2.979A	2.954A	1.192A	169.93	90.581%	1111	26.7	40.59°C	0.974
	12.004V	5.036V	3.352V	5.033V	187.603				45.09°C	114.8V
30%	18.245A	3.476A	3.447A	1.395A	254.931	91.219%	1116	26.7	41.25°C	0.978
	11.997V	5.034V	3.35V	5.018V	279.469				46.28°C	114.77V
40%	24.923A	3.973A	3.941A	1.599A	340.015	91.325%	1118	26.8	41.94°C	0.98
	11.990V	5.034V	3.349V	5.003V	372.316				47.45°C	114.74V
50%	31.238A	4.967A	4.929A	1.805A	424.794	90.951%	1123	26.9	42.5°C	0.98
	11.982V	5.034V	3.347V	4.987V	467.058				48.58°C	114.71V
60%	37.539A	5.96A	5.918A	2A	509.271	90.403%	1128	26.9	42.86°C	0.981
	11.975V	5.034V	3.346V	4.971V	563.336				49.41°C	114.69V
70%	43.915A	6.951A	6.906A	2.221A	594.666	89.687%	1133	27.0	43.32°C	0.983
	11.968V	5.035V	3.345V	4.953V	663.062				50.33°C	114.64V
80%	50.299A	7.947A	7.898A	2.327A	679.467	88.749%	1693	39.3	44.55°C	0.984
	11.960V	5.033V	3.342V	4.941V	765.604				52.59°C	114.63V
90%	57.095A	8.449A	8.384A	2.435A	764.894	87.815%	2316	47.0	44.58°C	0.986
	11.952V	5.029V	3.339V	4.928V	871.024				53.65°C	114.58V
100%	63.634A	8.952A	8.901A	3.062A	849.674	86.958%	2311	47.0	45.39°C	0.987
	11.943V	5.026V	3.337V	4.899V	977.107				55.45°C	114.55V
110%	70.047A	9.948A	9.985A	3.068A	934.281	85.799%	2312	47.0	46.58°C	0.988
	11.935V	5.026V	3.335V	4.889V	1088.925				57.49°C	114.53V
CL1	0.115A	13.14A	13.08A	0A	111.289	82.959%	1139	27.1	41.34°C	0.97
	12.010V	5.038V	3.341V	5.07V	134.148				46.85°C	114.81V
CL2	0.115A	19.796A	0A	0A	101.331	80.686%	1137	27.1	40.14°C	0.968
	12.017V	5.049V	3.361V	5.075V	125.589				47.23°C	114.82V
CL3	0.115A	0A	19.754A	0A	67.379	75.558%	1096	26.6	40.22°C	0.96
	12.006V	5.059V	3.341V	5.076V	89.173				49.25°C	114.83V
CL4	71.096A	0A	0A	0A	849.46	87.879%	2305	46.8	45.73°C	0.987
	11.949V	5.049V	3.361V	5.009V	966.641				56.7°C	114.56V

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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	1.237A	0.496A	0.492A	0.197A	19.994	70.745%	1085	26.1	36.57°C	0.847
	12.002V	5.036V	3.356V	5.083V	28.262				39.62°C	114.85V
40W	2.724A	0.695A	0.688A	0.295A	39.996	81.372%	1091	26.5	37.38°C	0.924
	12.002V	5.037V	3.356V	5.078V	49.154				40.66°C	114.84V
60W	4.209A	0.893A	0.885A	0.394A	59.996	85.519%	1096	26.6	38.38°C	0.94
	12.004V	5.037V	3.356V	5.072V	70.159				42.21°C	114.84V
80W	5.687A	1.092A	1.082A	0.493A	79.934	87.426%	1101	26.7	39.11°C	0.961
	12.011V	5.038V	3.356V	5.067V	91.432				43.08°C	114.82V

### RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	24.96mV	14.11mV	15.60mV	8.26mV	Pass
20% Load	27.77mV	13.55mV	15.03mV	8.82mV	Pass
30% Load	26.60mV	14.22mV	15.49mV	12.01mV	Pass
40% Load	19.59mV	14.68mV	15.70mV	10.62mV	Pass
50% Load	16.47mV	14.17mV	15.80mV	11.90mV	Pass
60% Load	17.90mV	14.52mV	15.49mV	14.78mV	Pass
70% Load	16.67mV	14.94mV	15.08mV	15.39mV	Pass
80% Load	20.26mV	15.86mV	17.55mV	17.04mV	Pass
90% Load	20.00mV	16.22mV	18.73mV	15.45mV	Pass
100% Load	32.08mV	16.78mV	20.29mV	18.42mV	Pass
110% Load	31.82mV	17.67mV	19.33mV	18.38mV	Pass
Crossload1	43.05mV	15.88mV	20.51mV	9.64mV	Pass
Crossload2	32.48mV	21.92mV	18.52mV	10.01mV	Pass
Crossload3	28.03mV	14.32mV	20.06mV	7.75mV	Pass
Crossload4	29.57mV	15.87mV	16.86mV	11.67mV	Pass

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Deepcool PN850M

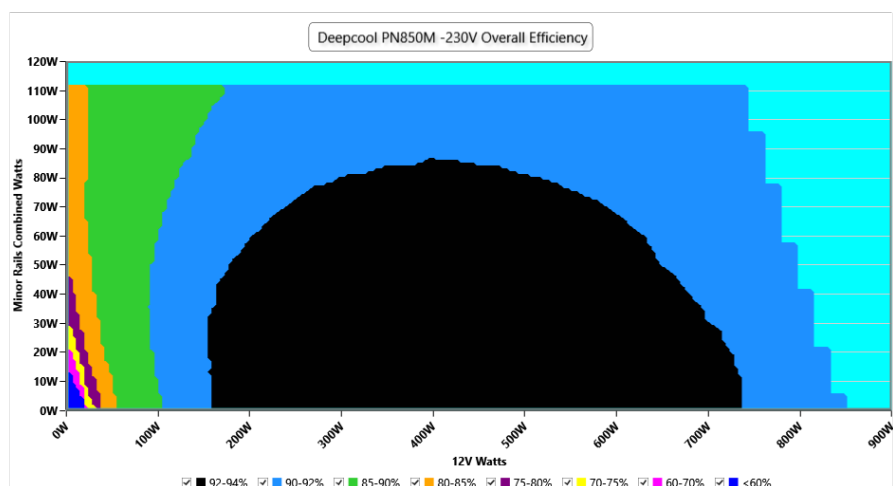
# 230V

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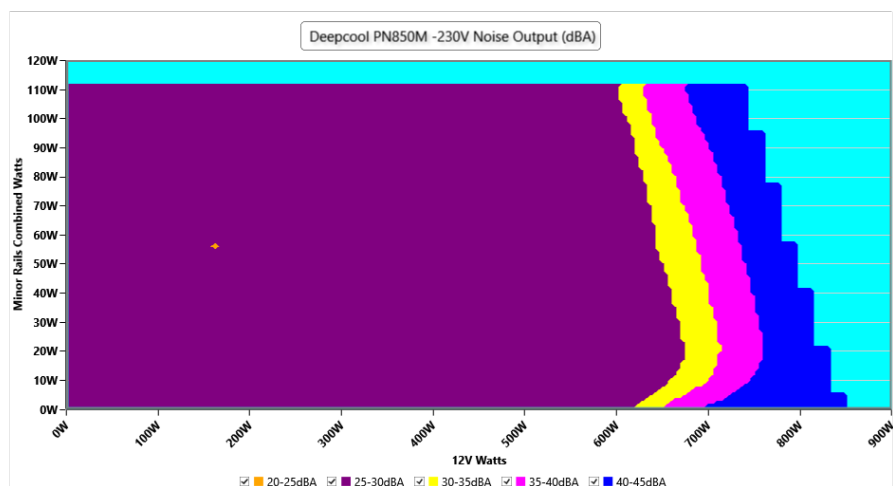
### EFFICIENCY GRAPH 230V



#### INFO

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### NOISE GRAPH 230V



#### 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 -230V

#### Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	229.88 V	229.76 V	227.70 V	229.99 V	232.30 V	PASS
Mains Frequency:	50.00 Hz	49.99 Hz	49.50 Hz	50.02 Hz	50.50 Hz	PASS
Mains Voltage CF:	1.419	1.417	1.340	1.420	1.490	PASS
Mains Voltage THD:	0.17 %	0.13 %	N/A	0.30 %	2.00 %	PASS
Real Power:	0.117 W	0.078 W	N/A	0.166 W	N/A	N/A
Apparent Power:	39.346 W	39.292 W	N/A	39.419 W	N/A	N/A
Power Factor:	0.004	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%	5.279A	1.985A	1.968A	0.991A	85.005	88.209%	1094	26.5	40.42°C	0.81
	12.011V	5.038V	3.354V	5.047V	96.367				44.66°C	229.85V
20%	11.583A	2.979A	2.954A	1.192A	169.944	91.721%	1097	26.6	40.95°C	0.901
	12.004V	5.036V	3.352V	5.032V	185.281				45.54°C	229.84V
30%	18.247A	3.476A	3.448A	1.395A	254.952	92.694%	1102	26.7	41.48°C	0.931
	11.996V	5.035V	3.35V	5.018V	275.047				46.48°C	229.82V
40%	24.925A	3.973A	3.942A	1.599A	340.042	93.006%	1106	26.7	41.74°C	0.946
	11.989V	5.034V	3.349V	5.002V	365.614				47.31°C	229.81V
50%	31.246A	4.966A	4.929A	1.805A	424.878	92.899%	1124	26.9	42.02°C	0.953
	11.982V	5.035V	3.348V	4.986V	457.335				48.03°C	229.79V
60%	37.548A	5.96A	5.919A	2A	509.346	92.67%	1131	27.0	42.85°C	0.957
	11.974V	5.034V	3.346V	4.97V	549.632				49.41°C	229.78V
70%	43.925A	6.954A	6.908A	2.221A	594.735	92.276%	1134	27.0	42.98°C	0.959
	11.966V	5.034V	3.344V	4.952V	644.514				49.99°C	229.76V
80%	50.313A	7.948A	7.9A	2.328A	679.55	91.679%	1684	39.2	43.9°C	0.962
	11.958V	5.032V	3.342V	4.94V	741.232				51.94°C	229.75V
90%	57.112A	8.451A	8.386A	2.436A	764.975	91.107%	2303	46.8	44.09°C	0.964
	11.950V	5.029V	3.339V	4.927V	839.644				53.19°C	229.73V
100%	63.652A	8.955A	8.903A	3.063A	849.745	90.622%	2305	46.8	45°C	0.967
	11.941V	5.025V	3.336V	4.898V	937.684				55.09°C	229.72V
110%	70.064A	9.949A	9.987A	3.07A	934.35	89.983%	2305	46.8	46.57°C	0.969
	11.933V	5.025V	3.334V	4.887V	1038.36				57.5°C	229.7V
CL1	0.117A	13.145A	13.084A	0A	111.298	83.947%	1143	27.2	40.47°C	0.862
	12.010V	5.036V	3.34V	5.07V	132.583				45.98°C	229.84V
CL2	0.115A	19.791A	0A	0A	101.348	81.41%	1139	27.1	40.62°C	0.854
	12.018V	5.051V	3.361V	5.075V	124.492				47.64°C	229.84V
CL3	0.115A	0A	19.755A	0A	67.383	76.163%	1103	26.7	42.11°C	0.793
	12.007V	5.059V	3.341V	5.076V	88.468				51.14°C	229.85V
CL4	71.106A	0A	0A	0A	849.531	91.48%	2307	46.9	46.11°C	0.967
	11.948V	5.049V	3.361V	5.007V	928.652				57.09°C	229.72V

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## Anex

Deepcool PN850M

### 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	1.237A	0.496A	0.492A	0.197A	19.998	70.022%	1078	26	36.59°C	0.482
	12.002V	5.037V	3.356V	5.083V	28.56				39.64°C	229.87V
40W	2.724A	0.695A	0.688A	0.295A	39.999	81.49%	1092	26.5	37.3°C	0.643
	12.002V	5.038V	3.357V	5.077V	49.084				40.62°C	229.86V
60W	4.210A	0.893A	0.885A	0.394A	60	86.08%	1080	26.1	38.46°C	0.736
	12.004V	5.039V	3.356V	5.071V	69.715				41.98°C	229.86V
80W	5.688A	1.091A	1.082A	0.493A	79.943	88.243%	1086	26.2	39.11°C	0.798
	12.011V	5.039V	3.356V	5.066V	90.592				42.91°C	229.85V

### RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	29.82mV	14.42mV	15.91mV	8.21mV	Pass
20% Load	28.64mV	13.81mV	14.98mV	8.31mV	Pass
30% Load	26.50mV	14.11mV	15.39mV	13.80mV	Pass
40% Load	19.33mV	14.32mV	15.96mV	10.52mV	Pass
50% Load	14.27mV	13.35mV	13.54mV	10.11mV	Pass
60% Load	18.26mV	15.09mV	15.70mV	13.65mV	Pass
70% Load	18.92mV	15.09mV	16.73mV	20.16mV	Pass
80% Load	21.12mV	15.29mV	17.70mV	16.16mV	Pass
90% Load	19.59mV	15.45mV	16.72mV	15.39mV	Pass
100% Load	32.40mV	17.15mV	19.11mV	18.09mV	Pass
110% Load	33.70mV	17.62mV	21.77mV	18.88mV	Pass
Crossload1	38.87mV	15.29mV	19.14mV	9.03mV	Pass
Crossload2	28.03mV	20.07mV	18.37mV	9.60mV	Pass
Crossload3	32.69mV	14.68mV	18.01mV	8.26mV	Pass
Crossload4	30.38mV	15.42mV	18.89mV	11.61mV	Pass

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Anex

Deepcool PN850M



Top side

PN850M

DEEPCOOL

80 PLUS

Gold

Switching Power Supply 开关电源供应器

Model No. 型号	PN850M-FC				
AC Input 交流输入	100-240Vac 10-16A 50-60Hz				
DC Output 直流输出	+3.3V	+5V	+12V	-12V	+5VSB
Max Output Current 最大输出电流	20A	20A	70.5A	0.3A	3A
Max Combined Wattage 最大组合功率	110W		846W	3.6W	15W
Total Output 总功率	850W				

⚡

!

CAUTION:

Hazardous voltage inside!

DO NOT open this power supply unit!

To be serviced by trained personnel only.

No user serviceable components inside.

内有高压, 请勿开启

Cet appareil n'est pas conçu pour être utilisable par l'utilisateur et contient une haute tension à l'intérieur qui peut être dangereux lorsqu'il est ouvert. En cas de dysfonctionnement, veuillez en informer votre revendeur ou distributeur local pour le service.

Power specifications label

## CERTIFICATIONS 115V




**Aristeidis Bitziopoulos**  
Lab Director

## CERTIFICATIONS 230V



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