

Anex Deepcool PN850D

Lab ID#: DC85002335

Receipt Date: Jan 11, 2024

Test Date: Jan 24, 2024

Report: 24PS2335A

Report Date: Jan 29, 2024

DUT INFORMATION	
Brand	Deepcool
Manufacturer (OEM)	CWT
Series	PN-D
Model Number	PN850D-FC
Serial Number	
DUT Notes	CWT GPW platform

DUT SPECIFICATION	ONS
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	10-5
Rated Frequency (Hz)	50-60
Rated Power (W)	850
Туре	ATX12V
Cooling	120mm Rifle Bearing Fan (DF1202512SEHN)
Semi-Passive Operation	Х
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	88.937%
Efficiency With 10W (≤500W) or 2% (>500W)	68.146
Average Efficiency 5VSB	78.618%
Standby Power Consumption (W)	0.0449000
Average PF	0.979
Avg Noise Output	33.51 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard++

91.056%
78.247%
0.1207000
0.937
33.42 dB(A)
PLATINUM
Standard++

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

HOLD-UP TIME & POWER OK SIGNAL (230V)	
Hold-Up Time (ms)	18
AC Loss to PWR_OK Hold Up Time (ms)	16.8
PWR_OK Inactive to DC Loss Delay (ms)	1.2

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CABLES AND CONNECTORS				
Captive Cables				
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (540mm)	1	1	18-20AWG	No
4+4 pin EPS12V (740mm)	2	2	18AWG	No
6+2 pin PCle (580mm)	3	3	18AWG	No
12+4 pin PCle (630mm) (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)	СWТ
Platform Model	GPW
PCB Type	Single-Sided
Primary Side	
Transient Filter	2x Y caps, 1x X caps, 2x CM chokes, 1x MOV , 1x CAP200DG (Discharge IC)
Inrush Protection	1x NTC Thermistor SCK-056 (5 Ohm @25°C) & Relay
Bridge Rectifier(s)	1x GBU1506
APFC MOSFETs	2x Great Power GP28S50 (500V, 28A, Rds(on): 0.1250hm) & 1x SPN5003 FET (for reduced no-load consumption)
APFC Boost Diode	1x CRXI06D065G2
Bulk Cap(s)	1x Chengx (400V, 680uF, 2000h @ 85°C, AP)
Main Switchers	4x Silan Microelectronics SVF20N50F (500V, 12.6A @ 100°C, Rds(on): 0.270hm)
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 Infineon BSC014N04LS (40V, 100A @ 100°C, Rds(on): 1.4mOhm)
5V & 3.3V	DC-DC Converters: 4x SPN3006 (30V, 57A @ 100°C, Rds(on): 5.5mOhm) PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic:  11x Chengx (2,000 @ 105°C, GR),  Polymer: 9x CapXon , 3x Elite ,3x Chengx , 2x
Supervisor IC	IN1S4291-DCG
Fan Model	MARTECH DF1202512SEHN (120mm, 12V, 0.42A, Rifle Bearing Fan)
5VSB Circuit	
Standby PWM Controller	Power Integrations TNY2907PG

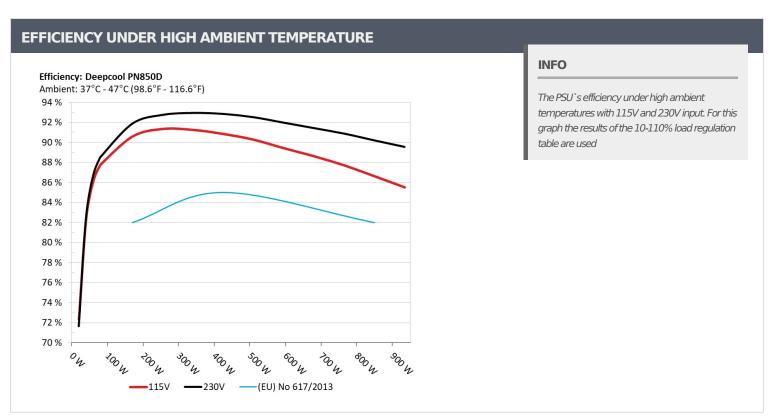
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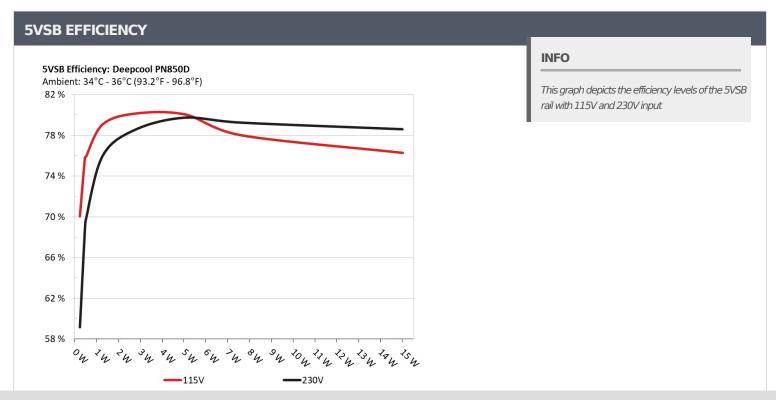
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<b>5VSB EFFICIEN</b>	CY -115V (ERP LOT	3/6 & CEC)		
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.23W	- CO F 400/	0.033
	5.109V	0.331W	69.549%	115.14V
2	0.09A 0.46W	75.2040/	0.06	
2	5.107V	0.613W	75.294%	115.15V
	0.55A	2.801W	70.6240/	0.267
3	5.092V	3.517W	79.634%	115.15V
4	1A	5.077W	70.520/	0.364
4	5.076V	6.384W	79.53%	115.15V
_	1.5A	7.59W	77.500/	0.415
5	5.059V	9.793W	77.509%	115.15V
6	3A	15.019W	75 7710/	0.48
6	5.006V	19.822W	75.771%	115.14V

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)				
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.23W	E0 0070/	0.012
	5.108V	0.392W	58.667%	230.38V
2	0.09A	0.46W	CO 2000/	0.02
2	5.107V	0.674W	68.299%	230.38V
	0.55A	2.801W	70.0720/	0.102
3	5.091V	3.588W	78.073%	230.39V
	1A	5.076W	70 2210/	0.169
4	5.075V	6.405W	79.231%	230.39V
_	1.5A	7.591W	70 7200/	0.23
5	5.06V	9.64W	78.739%	230.38V
6	3A	15.013W	70.0050/	0.332
6	5.004V	19.227W	78.086%	230.38V

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# 115V

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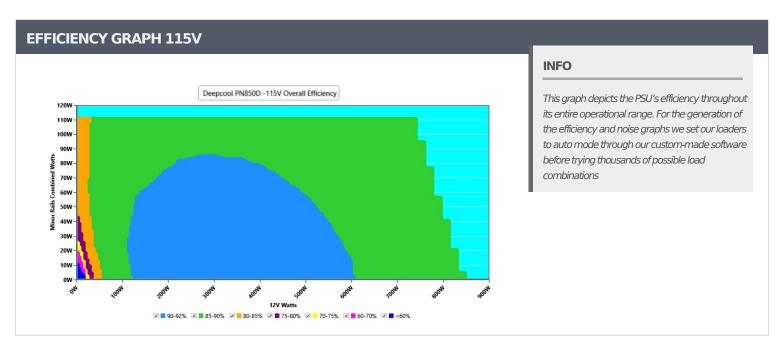
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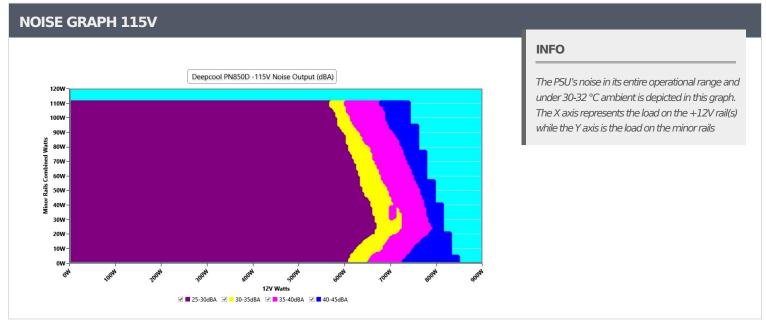
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VAMPIRE POWER -115V										
Detailed Results										
	Average	Min	Limit Min	Max	Limit Max	Result				
Mains Voltage RMS:	115.13 V	115.11 V	113.85 V	115.15 V	116.15 V	PASS				
Mains Frequency:	60.00 Hz	59.91 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS				
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:	0.045 W	0.013 W	N/A	0.060 W	N/A	N/A				
Apparent Power:	9.977 W	9.972 W	N/A	9.981 W	N/A	N/A				
Power Factor:	0.006	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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Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100/	5.256A	1.98A	1.966A	0.988A	85.006	07.7740/	1000	26.1	40.1°C	0.957
10%	12.064V	5.052V	3.357V	5.061V	96.85	87.774%	1082	26.1	44.35°C	115.15
20%	11.535A	2.972A	2.952A	1.19A	169.975	90.592%	1090	26 F	40.59°C	0.978
20%	12.056V	5.049V	3.354V	5.044V	187.63	90.392%	1090	26.5	45.11°C	115.12
2007	18.168A	3.467A	3.445A	1.394A	255.01	01.2550/	1100	26.7	41.1°C	0.981
30%	12.051V	5.05V	3.353V	5.021V	279.144	91.355%	1100	26.7	46.21°C	115.1V
4007	24.813A	3.965A	3.942A	1.599A	340.08	01.2610/	1000	26.6	41.75°C	0.981
40%	12.045V	5.045V	3.349V	5.004V	372.646	91.261%	1098	26.6	47.28°C	115.07
E00/	31.113A	4.959A	4.932A	1.806A	425.046	00.0500/	1101	26.7	42.27°C	0.98
50%	12.038V	5.042V	3.346V	4.984V	467.802	90.859%	1101	26.7	48.33°C	115.05
C00/	37.382A	5.953A	5.922A	2.001A	509.493	00 2010/	1105	26.7	42.77°C	0.981
60%	12.031V	5.041V	3.344V	4.963V	564.278	90.291%	1105		49.32°C	115.02
700/	43.727A	6.948A	6.914A	2.227A	594.91	- 00 4260/	1522	36.5	43.17°C	0.983
70%	12.024V	5.039V	3.342V	4.94V	665.176	89.436%	1522		50.24°C	114.99
000/	50.081A	7.946A	7.91A	2.336A	679.696	00.630/	1004	42.5	43.63°C	0.985
80%	12.017V	5.034V	3.337V	4.924V	766.894	88.63%	1904		51.7°C	114.96
000/	56.836A	8.446A	8.395A	2.446A	765.146	07.7100/	2227	46.0	44.5°C	0.986
90%	12.011V	5.032V	3.335V	4.907V	872.345	87.712%	2237	46.0	53.71°C	114.93
1000/	63.332A	8.944A	8.911A	3.083A	849.978	06 6300/	2220	46.0	45.82°C	0.987
100%	12.005V	5.031V	3.333V	4.867V	981.175	86.628%	2239	46.0	55.84°C	114.9V
1100/	69.707A	9.943A	9.999A	3.093A	934.57	05 5220/	2220	46.0	46.79°C	0.988
110%	11.997V	5.029V	3.33V	4.85V	1092.785	85.522%	2239	46.0	57.72°C	114.88
Cl 1	0.116A	13.142A	13.034A	0A	111.299	02.0570/	1112	26.7	41.02°C	0.974
CL1	12.055V	5.037V	3.352V	5.075V	132.728	83.857%	1113	26.7	46.45°C	115.14
CI 2	0.116A	19.877A	0.001A	0.001A	101.4	- 02 11 40/	1114	26.7	40.45°C	0.974
CL2	12.060V	5.031V	3.365V	5.086V	123.487	82.114%	1114	26.7	47.46°C	115.14
CI 2	0.116A	0A	19.693A	0A	67.396	76 5070/	1005	26.6	40.01°C	0.958
CL3	12.057V	5.066V	3.351V	5.083V	88.019	76.587%	1095	26.6	49.11°C	115.15
CL 4	70.735A	0.001A	0A	0A	849.683	07.6170/	22.42	46.1	45.12°C	0.988
CL4	12.013V	5.054V	3.344V	4.998V	969.78	87.617%	2243	46.1	56.09°C	114.91

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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
2014	1.232A	0.495A	0.491A	0.196A	20.011	<b> - - - - - - - - -</b>		25.0	36.56°C	0.813
20W	12.055V	5.054V	3.359V	5.099V	27.668	72.322%	1069	25.8	39.64°C	115.17V
40)44	2.712A	0.693A	0.688A	0.295A	40.007	- 02 2100/	1072	26	37.24°C	0.914
40W	12.054V	5.054V	3.358V	5.093V	48.599	82.318%	1073	20	40.57°C	115.17V
COM	4.192A	0.891A	0.885A	0.393A	60.004	00.1120/	1075	1075 26	38.08°C	0.943
60W	12.055V	5.054V	3.358V	5.087V	69.681	86.112%	10/5		41.89°C	115.16V
00144	5.664A	1.089A	1.081A	0.492A	79.973	07.0000/	1000	26.1	39.59°C	0.957
80W	12.064V	5.054V	3.357V	5.08V	90.984	87.898%	1080		43.54°C	115.15V

RIPPLE MEA	SUREMENTS 115V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	24.29mV	10.66mV	9.77mV	10.24mV	Pass
20% Load	24.34mV	11.94mV	11.44mV	10.85mV	Pass
30% Load	25.85mV	13.01mV	14.60mV	13.04mV	Pass
40% Load	24.83mV	13.82mV	13.83mV	15.08mV	Pass
50% Load	25.64mV	16.02mV	14.50mV	18.44mV	Pass
60% Load	26.61mV	17.19mV	13.83mV	19.97mV	Pass
70% Load	29.92mV	24.74mV	15.00mV	23.74mV	Pass
80% Load	33.02mV	27.34mV	20.80mV	25.53mV	Pass
90% Load	34.60mV	29.94mV	26.24mV	22.32mV	Pass
100% Load	48.23mV	26.59mV	30.48mV	24.62mV	Pass
110% Load	52.05mV	34.91mV	32.93mV	29.92mV	Pass
Crossload1	50.94mV	26.35mV	21.44mV	12.62mV	Pass
Crossload2	35.06mV	29.43mV	16.73mV	14.67mV	Pass
Crossload3	33.28mV	18.16mV	25.03mV	8.20mV	Pass
Crossload4	40.06mV	20.99mV	25.13mV	14.19mV	Pass

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# 230V

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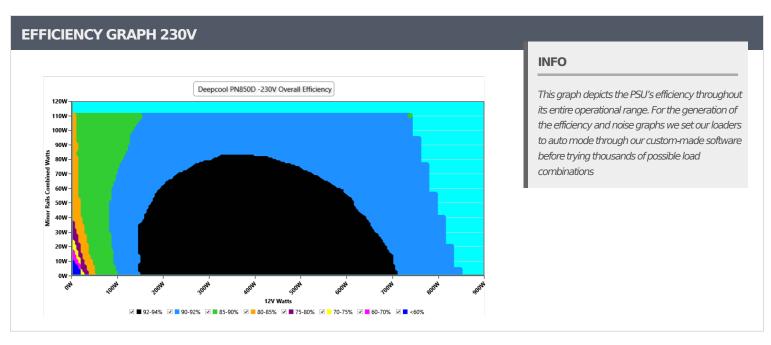
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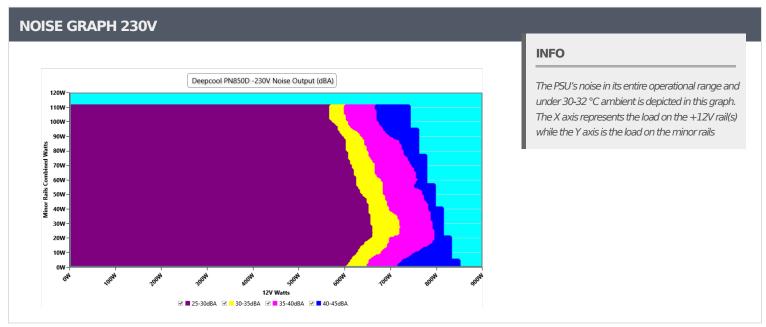
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VAMPIRE POWER -230V											
	Detailed Results										
	Average	Min	Limit Min	Max	Limit Max	Result					
Mains Voltage RMS:	230.35 V	230.31 V	227.70 V	230.35 V	232.30 V	PASS					
Mains Frequency:	50.00 Hz	50.00 Hz	49.50 Hz	50.00 Hz	50.50 Hz	PASS					
Mains Voltage CF:	1.415	1.415	1.340	1.415	1.490	PASS					
Mains Voltage THD:	0.14 %	0.13 %	N/A	0.15 %	2.00 %	PASS					
Real Power:	0.121 W	0.104 W	N/A	0.147 W	N/A	N/A					
Apparent Power:	33.379 W	33.367 W	N/A	33.390 W	N/A	N/A					
Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A					

#### INFO

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**Anex** 

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Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100/	5.254A	1.979A	1.965A	0.988A	85	00.5140/	1000	26.6	40.42°C	0.808
10%	12.066V	5.055V	3.358V	5.06V	96.03	88.514%	1096	26.6	44.68°C	230.37
200/	11.531A	2.97A	2.951A	1.19A	169.958	01.0600/	1000	26.6	40.8°C	0.905
20%	12.059V	5.051V	3.355V	5.043V	184.996	91.869%	1098	26.6	45.33°C	230.36
2007	18.162A	3.467A	3.446A	1.394A	254.967	00.7540/	1000	20.0	41.29°C	0.934
30%	12.053V	5.049V	3.352V	5.024V	274.882	92.754%	1096	26.6	46.36°C	230.36
4007	24.808A	3.964A	3.941A	1.599A	340.057	02.0400/	1100	26.7	41.7°C	0.949
40%	12.046V	5.047V	3.35V	5.004V	365.856	92.949%	1102	26.7	47.24°C	230.35
E00/	31.106A	4.957A	4.93A	1.806A	425.02	02.05.40/	1100	26.7	42.15°C	0.957
50%	12.039V	5.045V	3.347V	4.983V	457.709	92.854%	1106	26.7	48.23°C	230.34
C00/	37.375A	5.951A	5.92A	2.001A	509.484	02.5200/	1110	26.7	42.67°C	0.961
60%	12.033V	5.043V	3.345V	4.963V	550.622	92.529%	1110		49.26°C	230.33
700/	43.722A	6.947A	6.913A	2.227A	594.889	01.0700/	1610	27.6	43.29°C	0.964
70%	12.025V	5.04V	3.342V	4.941V	646.772	91.979%	1612	37.6	50.38°C	230.32
000/	50.074A	7.944A	7.908A	2.336A	679.725	01.4200/	1000	42.0	43.78°C	0.966
80%	12.018V	5.035V	3.338V	4.924V	743.367	91.439%	1990	43.8	51.79°C	230.31
000/	56.831A	8.445A	8.394A	2.446A	765.163	00.0040/	22.41	46.1	44.89°C	0.968
90%	12.012V	5.033V	3.335V	4.906V	841.913	90.884%	2241	46.1	53.91°C	230.3V
1000/	63.328A	8.943A	8.909A	3.083A	849.991	00.2070/	2240	46.0	45.69°C	0.97
100%	12.005V	5.032V	3.333V	4.866V	942.271	90.207%	2240	46.0	55.73°C	230.29
1100/	69.701A	9.943A	9.998A	3.093A	934.572	00.500/	2242	46.1	46.87°C	0.972
110%	11.998V	5.029V	3.33V	4.851V	1043.511	89.56%	2242	46.1	57.78°C	230.28
CL 1	0.116A	13.139A	13.031A	0A	111.299	04.7550/	1115	26.7	40.76°C	0.866
CL1	12.056V	5.038V	3.353V	5.076V	131.315	84.755%	1115	26.7	46.21°C	230.39
CI 2	0.116A	19.871A	0.001A	0.001A	101.402	02.0020/	1117	26.0	40.19°C	0.854
CL2	12.061V	5.032V	3.365V	5.087V	122.358	82.863%	1117	26.8	47.22°C	230.38
21.2	0.116A	0A	19.698A	0A	67.397	77.2000/	7.388% 1101	26.7	40.39°C	0.785
CL3	12.056V	5.068V	3.35V	5.083V	87.09	77.388%		26.7	49.45°C	230.39
Cl 4	70.740A	0.001A	0A	0A	849.724	01.170/	2244	46.1	45.32°C	0.971
CL4	12.012V	2V 5.052V 3.343V 4.997V 932.017	91.1/%	91.17% 2244	46.1	56.3°C	230.3V			

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Anex

Deepcool PN850D

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
2014	1.232A	0.495A	0.491A	0.196A	20.003	71.6400/		26.1	36.88°C	0.461
20W	12.057V	5.056V	3.36V	5.099V	27.918	71.648%	1083	26.1	39.93°C	230.41V
40\4	2.712A	0.692A	0.688A	0.295A	40.001	02.2750/	1002	1083 26.1	37.18°C	0.628
40W	12.056V	5.055V	3.359V	5.093V	48.562	82.375%	1083		40.55°C	230.41V
COM	4.191A	0.89A	0.884A	0.393A	60	0C CEC0/	1000	26.2	38.55°C	0.734
60W	12.056V	5.055V	3.358V	5.087V	69.241	86.656%	1086		42.11°C	230.4V
00/4/	5.664A	1.088A	1.081A	0.492A	79.964	00.6070/	1007	26.2	39.03°C	0.794
80W	12.064V	5.054V	3.358V	5.08V	90.166	88.687%	1087		42.89°C	230.4V

RIPPLE MEAS	SUREMENTS 230V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	27.85mV	11.02mV	10.07mV	11.46mV	Pass
20% Load	25.10mV	11.89mV	11.19mV	10.90mV	Pass
30% Load	25.34mV	13.98mV	16.48mV	14.72mV	Pass
40% Load	24.68mV	14.23mV	14.04mV	15.34mV	Pass
50% Load	23.61mV	14.64mV	13.48mV	15.28mV	Pass
60% Load	26.26mV	17.29mV	14.04mV	21.09mV	Pass
70% Load	29.56mV	25.35mV	15.77mV	25.98mV	Pass
80% Load	31.80mV	28.36mV	20.91mV	25.68mV	Pass
90% Load	33.43mV	28.77mV	25.99mV	24.71mV	Pass
100% Load	48.31mV	33.40mV	31.10mV	28.18mV	Pass
110% Load	51.36mV	28.40mV	33.63mV	28.30mV	Pass
Crossload1	50.67mV	26.00mV	21.69mV	12.70mV	Pass
Crossload2	29.61mV	28.92mV	16.07mV	13.91mV	Pass
Crossload3	38.32mV	19.89mV	28.38mV	9.42mV	Pass
Crossload4	40.18mV	20.60mV	24.64mV	13.91mV	Pass

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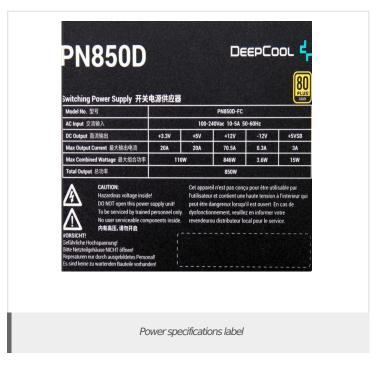
<sup>&</sup>gt; The link to the original test results document should be provided in any case



#### Anex

#### Deepcool PN850D









**Aristeidis Bitziopoulos**Lab Director

#### **CERTIFICATIONS 230V**





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