

Anex Deepcool PN650D

Lab ID#: DC65002339

Receipt Date: Jan 11, 2024

Test Date: Jan 29, 2024

Report: 24PS2339A

Report Date: Jan 31, 2024

DUT INFORMATION	
Brand	Deepcool
Manufacturer (OEM)	CWT
Series	PN-D
Model Number	PN650D-FC
Serial Number	
DUT Notes	CWT GPW platform

DUT SPECIFICATION	DNS
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	10-5
Rated Frequency (Hz)	50-60
Rated Power (W)	650
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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PAGE 1/17



Anex

Deepcool PN650D

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	88.383%
Efficiency With 10W (≤500W) or 2% (>500W)	64.444
Average Efficiency 5VSB	78.607%
Standby Power Consumption (W)	0.0538000
Average PF	0.980
Avg Noise Output	34.21 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard++

230V	
Average Efficiency	90.530%
Average Efficiency 5VSB	78.044%
Standby Power Consumption (W)	0.1183000
Average PF	0.935
Avg Noise Output	34.27 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard++

POWER SPECIFIC	OWER SPECIFICATIONS					
Rail		3.3V	5V	12V	5VSB	-12V
Mary Davier	Amps	20	20	54	3	0.3
Max. Power	Watts	100		648	15	3.6
Total Max. Power (W)		650				

HOLD-UP TIME & POWER OK SIGNAL (230V)	
Hold-Up Time (ms)	16.2
AC Loss to PWR_OK Hold Up Time (ms)	15
PWR_OK Inactive to DC Loss Delay (ms)	1.2

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PAGE 2/17



Anex

Deepcool PN650D

Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
1	1	18-20AWG	No
1	2	18AWG	No
1	2	18AWG	No
1	1	18AWG	No
1	1	16-24AWG	No
2	6/2	18AWG	No
	Cable Count 1 1 1 1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 18-20AWG 1 2 18AWG 1 2 18AWG 1 1 18AWG 1 1 16-24AWG

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PAGE 3/17

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Anex Deepcool PN650D

Canaral Data	
General Data	
Manufacturer (OEM)	CWT
Platform	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 GBU1006 (600V, 10A @ 150°C)
APFC MOSFETs	2x Champion GPT22N50SYX & 1x Sync Power SPN5003 (for reducing the no-load consuption)
APFC Boost Diode	1x CRMICRO CRXI06D065G2 (600V, 6A @ 167°C)
Bulk Cap(s)	1x Chengx (400V, 560uF, 2000h @ 85°C, AP)
Main Switchers	4x Silan Microelectronics SVF13N50F (500V, 8.2A @ 100°C, Rds(on): 0.52Ohm)
Resonant Controller	Champion CM6901X
APFC Controller	Champion 6500UNX
Topology	Primary side: APFC, Full-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	4 x InPower Semiconductor FTG014N04SA (40V, 100A)
5V & 3.3V	DC-DC Converters: 4x SPN3006 (30V, 57A @ 100°C, Rds(on): 5.5mOhm) PWM Controller(s): 1x ANPEC APW7159
Filtering Capacitors	Electrolytic: 11x Chengx (2-4,000 @ 105°C, GR), Polymer: 9x CapXon , 3x Chengx , 3x Elite , 2x Apaq
Supervisor IC	INI1S429I - DCG
Fan Model	Martech DF1202512SEHN (120mm, 12V, 0.42A, Fluid Dynamic Bearing Fan)
5VSB Circuit	
Standby PWM Controller	Power Integrations TNY290

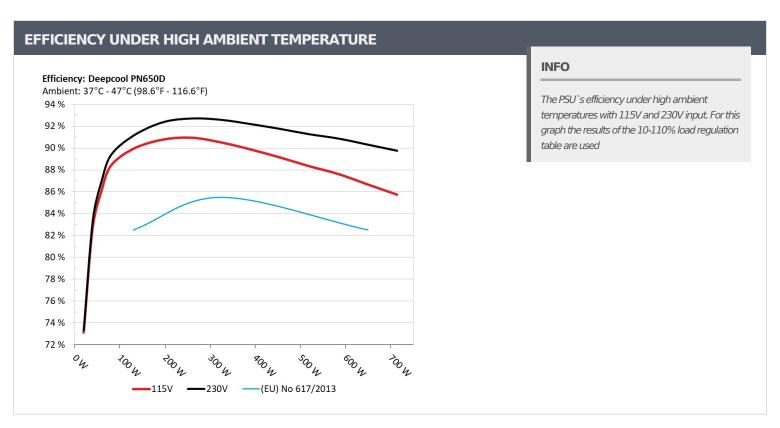
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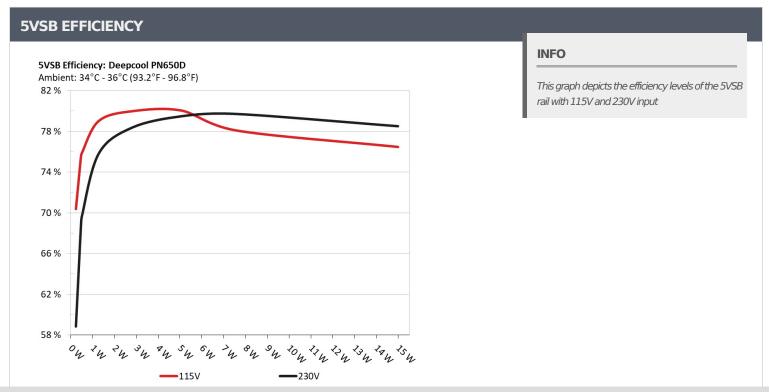
PAGE 4/17

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PAGE 5/17



Anex

Deepcool PN650D

5VSB EFFI	5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)				
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts	
	0.045A	0.23W	CO 0720/	0.033	
1	5.099V	0.329W	69.872%	115.16V	
2	0.09A	0.459W	74.0700/	0.061	
	5.097V	0.612W	74.972%	115.17V	
_	0.55A	2.796W	70.4020/	0.269	
3	5.081V	3.517W	79.492%	115.16V	
4	1A	5.067W	70.500/	0.366	
4	5.065V	6.369W	79.56%	115.16V	
_	1.5A	7.575W	77.6070/	0.417	
5	5.049V	9.762W	77.601%	115.16V	
6	ЗА	14.985W	75.000/	0.481	
6	4.995V	19.721W	75.98%	115.16V	

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)				
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.23W	F0.2440/	0.012
1	5.097V	0.394W	58.344%	230.4V
2	0.09A 0.459W	CO 1550/	0.02	
2	5.096V	0.674W	68.155%	230.4V
	0.55A	2.795W	77.856%	0.103
3	5.081V	3.591W		230.4V
4	1A	5.067W	70.0040/	0.171
4	5.065V	6.414W	78.984%	230.4V
F	1.5A	7.573W		0.23
5	5.047V	9.562W	79.206%	230.4V
	3.001A	14.983W		0.334
6	4.994V	19.207W	78.005%	230.4V

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PAGE 6/17

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Anex

Deepcool PN650D

115V

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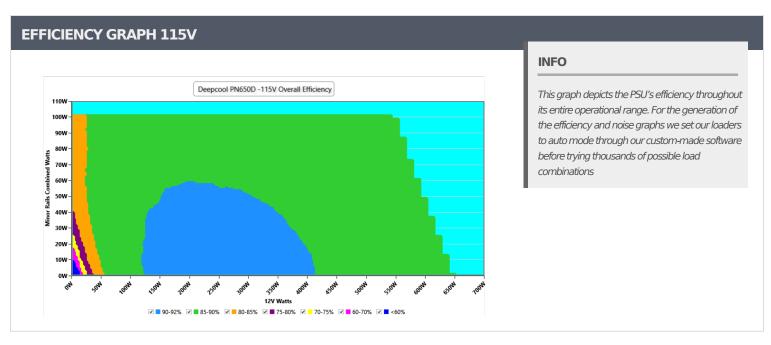
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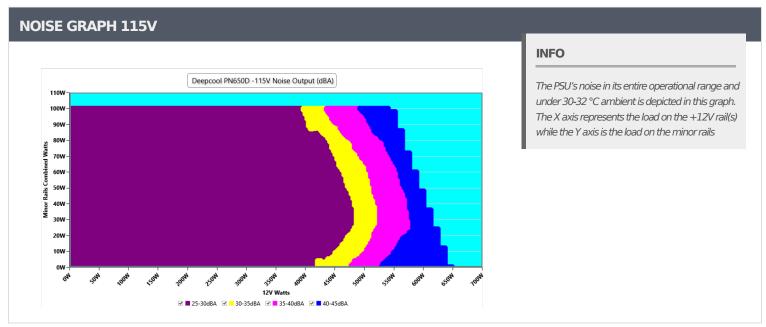
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PAGE 7/17



Anex Deepcool PN650D





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PAGE 8/17



Anex

Deepcool PN650D

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	115.16 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:	0.054 W	0.048 W	N/A	0.061 W	N/A	N/A					
Apparent Power:	9.899 W	9.895 W	N/A	9.903 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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PAGE 9/17



Anex

Deepcool PN650D

Test	12V	5V	3.3V	5VSB	DC/AC	Efficiency	Fan Speed	PSU Noise	Temps	PF/AC
iest	124	34	J.5V		(Watts)	Linciency	(RPM)	(dB[A])	(In/Out)	Volts
10%	3.582A	1.975A	1.966A	0.99A	65.008	85.635%	1101	26.7	40.34°C	0.954
1070	12.115V	5.064V	3.357V	5.051V	75.914		1101	20.7	44.62°C	115.15
20%	8.180A	2.964A	2.952A	1.192A	129.961	89.429%	1104	26.7	40.64°C	0.973
2070	12.108V	5.062V	3.354V	5.034V	145.324	09.42970	1104	20.7	45.18°C	115.13\
30%	13.132A	3.46A	3.446A	1.396A	194.969	90.268%	1107	26.7	41.37°C	0.98
3070	12.101V	5.06V	3.352V	5.016V	215.99	90.20070	1107	20.7	46.44°C	115.11\
400/	18.095A	3.955A	3.941A	1.601A	260.058	- 00 4420/	1110	26.7	41.92°C	0.983
40%	12.095V	5.058V	3.35V	4.998V	287.541	90.442%	1110	26.7	47.43°C	115.09\
E00/	22.712A	4.945A	4.929A	1.808A	325.053	90.009%	1246	20.1	42.13°C	0.983
50%	12.088V	5.056V	3.348V	4.979V	361.133	90.009%	1246	30.1	48.15°C	115.08
CO0/	27.302A	5.937A	5.92A	2.001A	389.489	89.379%	1679	39.0	42.92°C	0.984
60%	12.078V	5.054V	3.345V	4.961V	435.776	89.379%			49.49°C	115.06
700/	31.964A	6.929A	6.912A	2.226A	454.877	88.64%	2072	44.6	43.26°C	0.984
70%	12.068V	5.052V	3.343V	4.942V	513.179	88.04%	2073	44.6	50.31°C	115.03
80%	36.631A	7.921A	7.904A	2.334A	519.68	87.839%	2281	46.6	43.66°C	0.985
00 70	12.061V	5.05V	3.34V	4.927V	591.629	07.03970	2201	40.0	51.75°C	115.01
000/	41.694A	8.418A	8.387A	2.443A	585.09	- 071160/	2201	16.6	44.94°C	0.986
90%	12.054V	5.049V	3.338V	4.912V	671.627	87.116%	2281	46.6	54.03°C	114.99
1000/	46.498A	8.914A	8.901A	3.077A	649.926	06.1610/	2202	46.6	45.5℃	0.987
100%	12.048V	5.049V	3.336V	4.876V	754.316	86.161%	2283	46.6	55.58°C	114.97
110%	51.180A	9.908A	9.988A	3.084A	714.56	— Q5 <u>22/10/</u>	2287	46.6	46.76°C	0.989
11070	12.041V	5.046V	3.334V	4.864V	838.371	85.234%	2201	46.6	57.69°C	114.95
CI 1	0.116A	11.909A	11.85A	0A	101.298	— 02 EEE0/	1121	26.0	41.32°C	0.972
CL1	12.111V	5.055V	3.35V	5.064V	121.235	83.555%	1121	26.8	46.81°C	115.14
CL2	0.115A	19.78A	0A	0A	101.394	91.6060/	1127	26.9	41.31°C	0.973
ULZ	12.116V	5.055V	3.364V	5.072V	124.25	81.606%	112/	20.9	48.41°C	115.14
CI 2	0.115A	0A	19.713A	0A	67.391	76 5220/	1100	26.7	40.99°C	0.963
CL3	12.115V	5.075V	3.348V	5.069V	88.055	76.533%	1109	26.7	50.1°C	115.15
CL 4	53.909A	0A	0A	0A	649.711	07.2000/	2200	46.7	45.46°C	0.988
CL4	12.052V	5.064V	3.348V	5.004V	743.502	87.386%	2288	46.7	56.4°C	114.98\

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PAGE 10/17

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Anex

Deepcool PN650D

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	1.226A	0.494A	0.491A	0.197A	20.008	72.0050/		88 26.4	36.65°C	0.858
20W	12.111V	5.064V	3.358V	5.088V	27.557	72.605%	1088		39.72°C	115.17V
40\4	2.700A	0.691A	0.688A	0.295A	40.005	02.21.40/		26.5	37.43°C	0.927
40W	12.110V	5.064V	3.357V	5.082V	48.66	82.214%	1091		40.76°C	115.16V
COM	4.173A	0.889A	0.885A	0.394A	60.004	05.0200/	1004	94 26.5	38.35°C	0.952
60W	12.110V	5.064V	3.357V	5.075V	69.823	85.939%	1094		42.09°C	115.15V
00/4/	5.644A	1.086A	1.081A	0.493A	79.97	07.0610/	1007	26.6	39.31°C	0.965
80W	12.110V	5.064V	3.357V	5.069V	91.021	87.861%	1097		43.29°C	115.15V

RIPPLE MEASUR	EMENTS 115V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	11.87mV	7.96mV	6.00mV	5.40mV	Pass
20% Load	15.13mV	8.37mV	7.88mV	5.76mV	Pass
30% Load	16.81mV	9.13mV	8.09mV	7.24mV	Pass
40% Load	18.79mV	9.38mV	7.38mV	6.98mV	Pass
50% Load	18.49mV	14.13mV	7.58mV	8.05mV	Pass
60% Load	16.94mV	16.98mV	8.59mV	9.58mV	Pass
70% Load	15.88mV	18.36mV	9.20mV	10.95mV	Pass
80% Load	16.69mV	11.88mV	10.68mV	9.07mV	Pass
90% Load	17.71mV	12.81mV	11.24mV	9.12mV	Pass
100% Load	28.44mV	14.26mV	13.03mV	11.06mV	Pass
110% Load	29.80mV	16.37mV	17.65mV	12.24mV	Pass
Crossload1	22.96mV	14.15mV	10.88mV	7.39mV	Pass
Crossload2	17.45mV	18.57mV	10.02mV	7.69mV	Pass
Crossload3	20.35mV	10.10mV	15.41mV	5.91mV	Pass
Crossload4	27.14mV	16.43mV	10.06mV	12.79mV	Pass

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PAGE 11/17



Anex

Deepcool PN650D

230V

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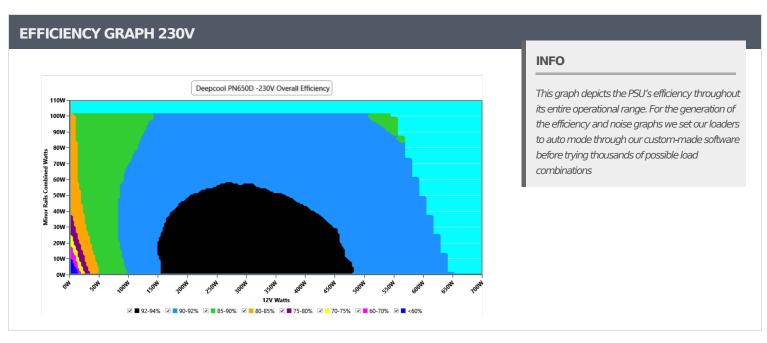
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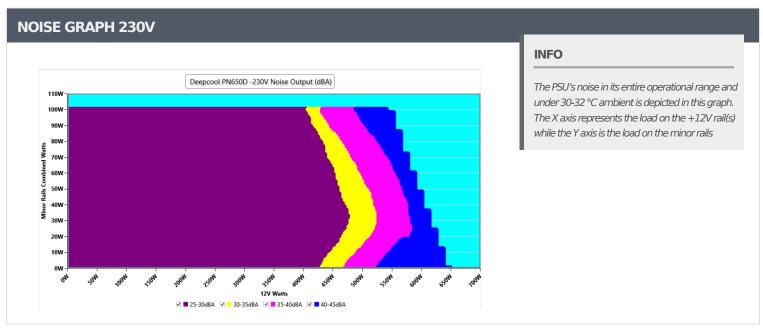
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PAGE 12/17



Anex Deepcool PN650D





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PAGE 13/17



Anex

Deepcool PN650D

VAMPIRE POWER -230V											
Detailed Results											
	Average	Min	Limit Min	Max	Limit Max	Result					
Mains Voltage RMS:	230.37 V	230.34 V	227.70 V	230.39 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	0.16 %	2.00 %	PASS					
Real Power:	0.118 W	0.103 W	N/A	0.147 W	N/A	N/A					
Apparent Power:	33.104 W	33.091 W	N/A	33.115 W	N/A	N/A					
Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A					

INFO

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PAGE 14/17

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Anex

Deepcool PN650D

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
	3.582A	1.975A	1.966A	0.99A	65.003				40.27°C	0.79
10%	12.116V	5.064V	3.357V	5.052V	75.074	86.581%	1100	26.7	44.48°C	230.37\
	8.180A	2.964A	2.952A	1.192A	129.945				40.83°C	0.894
20%	12.108V	5.061V	3.354V	5.034V	143.364	90.64%	1104	26.7	45.33°C	230.36\
2001	13.130A	3.459A	3.446A	1.396A	194.95	0.5.0000/			41.37°C	0.929
30%	12.101V	5.06V	3.352V	5.017V	212.219	91.863%	1107	26.7	46.38°C	230.36\
	18.093A	3.955A	3.94A	1.601A	260.034				41.63°C	0.944
40%	12.095V	5.058V	3.35V	4.999V	282	92.212%	1110	26.7	47.19°C	230.35\
=00/	22.711A	4.945A	4.929A	1.808A	325.028		1291	2.5	42.21°C	0.954
50%	12.088V	5.056V	3.348V	4.98V	352.962	92.086%		31.0	48.29°C	230.35\
600/	27.296A	5.937A	5.919A	2A	389.421	01.7010/	1663	38.8	42.95°C	0.96
60%	12.078V	5.055V	3.345V	4.962V	424.664	91.701%			49.49°C	230.34\
700/	31.956A	6.929A	6.91A	2.226A	454.809	01.2500/	2052	44.3	43.34°C	0.963
70%	12.069V	5.053V	3.343V	4.943V	498.374	91.259%	2052		50.38°C	230.33\
000/	36.622A	7.92A	7.903A	2.334A	519.607	00.7720/	2276	46.5	43.72°C	0.966
80%	12.062V	5.05V	3.34V	4.928V	572.429	90.772%	2276	40.5	51.73°C	230.32\
000/	41.687A	8.417A	8.386A	2.443A	585.023	90.367%	2277	46.5	44.68°C	0.968
90%	12.055V	5.049V	3.338V	4.913V	647.381	90.307%	2277	40.5	53.76°C	230.31\
1000/	46.493A	8.913A	8.9A	3.076A	649.864	89.812%	2200	16.6	45.99°C	0.97
100%	12.048V	5.049V	3.337V	4.877V	723.585	09.012%	2280	46.6	56.01°C	230.3V
110%	51.177A	9.908A	9.987A	3.084A	714.498	89.256%	2282	46.6	46.98°C	0.971
110%	12.040V	5.047V	3.334V	4.864V	800.506	09.23070	2202	40.0	57.92°C	230.29\
CL1	0.115A	11.906A	11.848A	0A	101.294	— 04 02E0/	1101	26.0	41.16°C	0.871
CLI	12.111V	5.056V	3.351V	5.065V	119.42	84.825%	1121	26.8	46.61°C	230.36\
CL2	0.115A	19.783A	0A	0.002A	101.399	82.768%	1126	26.9	40.09°C	0.875
CLZ	12.115V	5.054V	3.364V	5.072V	122.512	02.70070	1120	20.9	47.16°C	230.36\
CL3	0.115A	0A	19.714A	0.001A	67.396	77.402%	1107	26.7	40.79°C	0.82
UL)	12.112V	5.075V	3.347V	5.07V	87.074	/ / .4UZ%	110/	20.7	49.82°C	230.37\
CL 4	53.905A	0A	0A	0A	649.691	- 00.0100/	วางว	16.6	45.54°C	0.971
CL4 —	12.052V	5.063V	3.347V	5.004V	714.585	90.919%	2283	46.6	56.5°C	230.3V

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PAGE 15/17

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Anex

Deepcool PN650D

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	1.226A	0.494A	0.491A	0.197A	20.002	70.0150/		26.5	36.85°C	0.51
20W	12.112V	5.065V	3.358V	5.089V	27.469	72.815%	1090	26.5	39.91°C	230.36V
40)44	2.698A	0.691A	0.688A	0.295A	40	02.0210/		26.5	37.28°C	0.684
40W	12.113V	5.065V	3.358V	5.083V	48.232	82.931%	1093		40.56°C	230.36V
60144	4.172A	0.889A	0.884A	0.394A	59.998	00.0500/	1005	26.6	38.92°C	0.771
60W	12.111V	5.065V	3.357V	5.076V	69.075	86.856%	1095		42.44°C	230.37V
00144	5.640A	1.086A 1.081A 0.493A 79.955	1100	26.7	39.15°C	0.826				
80W	12.112V	5.065V	3.357V	5.07V	89.982	88.857%	1100	26.7	42.98°C	230.36V

RIPPLE MEASURE	MENTS 230V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	12.21mV	12.45mV	10.93mV	11.21mV	Pass
20% Load	15.74mV	13.32mV	12.87mV	13.25mV	Pass
30% Load	18.27mV	14.23mV	14.09mV	16.86mV	Pass
40% Load	21.07mV	14.94mV	13.83mV	15.90mV	Pass
50% Load	22.18mV	27.14mV	13.43mV	20.63mV	Pass
60% Load	25.14mV	28.16mV	14.80mV	25.57mV	Pass
70% Load	25.44mV	30.81mV	15.82mV	26.14mV	Pass
80% Load	26.46mV	28.97mV	18.56mV	25.37mV	Pass
90% Load	27.42mV	20.96mV	19.68mV	23.74mV	Pass
100% Load	39.88mV	23.65mV	22.79mV	27.37mV	Pass
110% Load	42.11mV	27.08mV	25.76mV	27.73mV	Pass
Crossload1	34.45mV	30.92mV	21.02mV	19.22mV	Pass
Crossload2	27.94mV	34.38mV	17.95mV	21.55mV	Pass
Crossload3	31.09mV	18.36mV	30.06mV	12.84mV	Pass
Crossload4	35.22mV	28.92mV	18.49mV	22.31mV	Pass

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PAGE 16/17

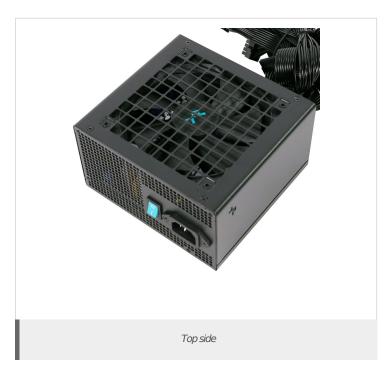
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Anex

Deepcool PN650D









Aristeidis BitziopoulosLab Director

CERTIFICATIONS 230V





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PAGE 17/17