

Anex Deepcool PX1200G

Lab ID#: DC12002133
Receipt Date: Jan 31, 2023
Test Date: Feb 8, 2023

Report: 23PS2133A

Report Date: Feb 17, 2023

Deepcool
CWT
PXG
PXC00G-FC

DUT SPECIFICATIONS						
Rated Voltage (Vrms)	100-240					
Rated Current (Arms)	15-7.5					
Rated Frequency (Hz)	50-60					
Rated Power (W)	1200					
Туре	ATX12V					
Cooling	135mm Fluid Dynamic Bearing Fan (HA13525H12SF-Z)					
Semi-Passive Operation	✓ (selectable)					
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 v3.0 PSU Power Excursion	/

115V	
Average Efficiency	88.966%
Efficiency With 10W (≤500W) or 2% (>500W)	77.334
Average Efficiency 5VSB	78.948%
Standby Power Consumption (W)	0.0152000
Average PF	0.987
Avg Noise Output	38.64 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Standard+

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

HOLD-UP TIME & POWER OK SIGNAL (230V)	
Hold-Up Time (ms)	22
AC Loss to PWR_OK Hold Up Time (ms)	19.5
PWR_OK Inactive to DC Loss Delay (ms)	2.5

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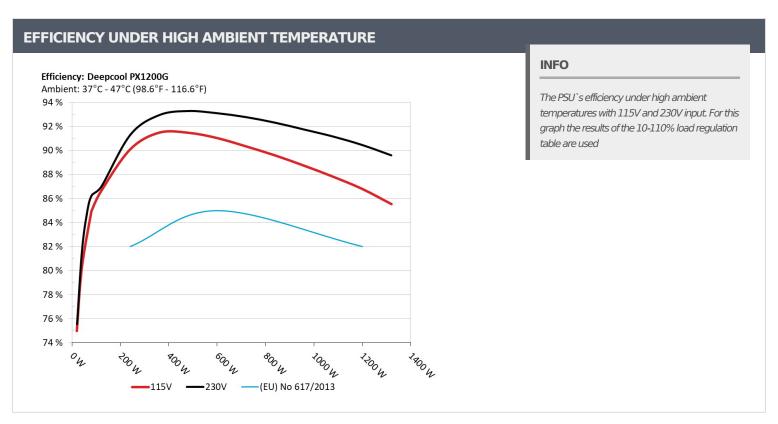
CABLES AND CONNECTORS				
Modular Cables				
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (600mm)	1	1	16AWG	No
4+4 pin EPS12V (700mm)	2	2	16AWG	No
6+2 pin PCle (650mm)	3	3	16AWG	No
12+4 pin PCle (650mm) (600W)	1	1	16-24AWG	No
SATA (500mm+150mm+150mm+150mm)	2	8	18AWG	No
4-pin Molex (500mm+150mm+150mm+150mm)	1	4	18AWG	No

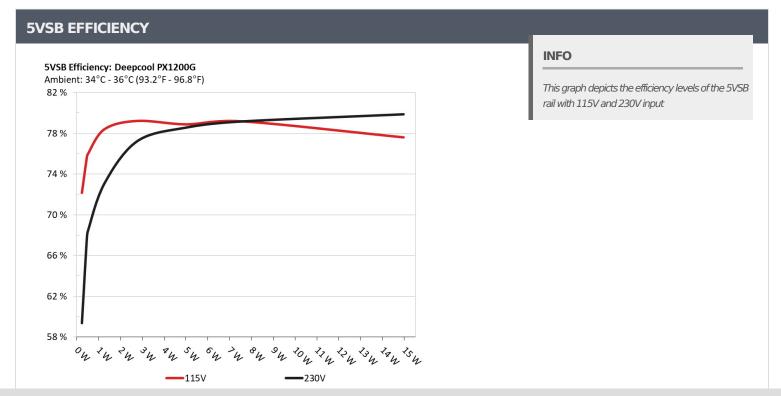
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5VSB EFFI	CIENCY -115V (ERF	P LOT 3/6 & CEC)		
Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.227W	72.170/	0.031
1	5.04V	0.315W	72.17%	115.1V
2	0.09A	0.454W	75.660/	0.059
	5.039V	0.6W	75.66%	115.11V
2	0.55A	2.768W	70 2210/	0.269
3	5.03V	3.494W	79.221%	115.12V
4	1A	5.025W	70.0010/	0.374
4	5.022V	6.37W	78.881%	115.12V
-	1.501A	7.523W	70.1010/	0.429
5	5.013V	9.501W	79.181%	115.13V
	3.001A	14.961W	77.000/	0.501
6	4.986V	19.277W	77.609%	115.12V

5VSB EFFI	CIENCY -230V (ERF	P LOT 3/6 & CEC)		
Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.227W	F0 200/	0.011
	5.04V	0.383W	59.38%	230.33V
2	0.09A	0.454W	-	0.02
2	5.039V	0.671W	67.694%	230.33V
	0.55A	2.768W		0.102
3	5.031V	3.585W	77.23%	230.34V
	1A	5.025W	70.5640/	0.169
4	5.023V	6.396W	78.564%	230.34V
_	1.5A	7.523W		0.23
5	5.014V	9.506W	79.15%	230.34V
	ЗА	14.962W	70.0570/	0.337
6	4.987V	18.735W	79.857%	230.34V

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115V

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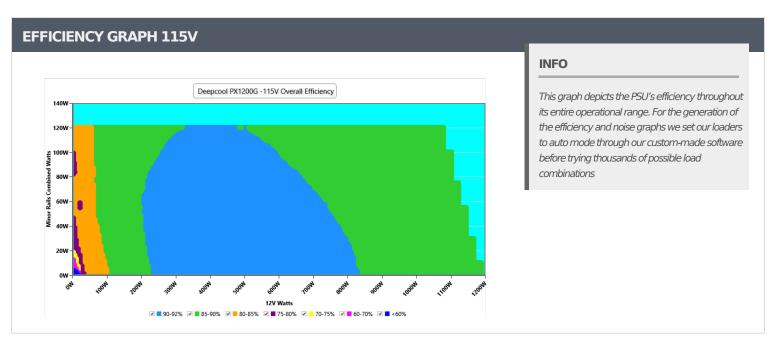
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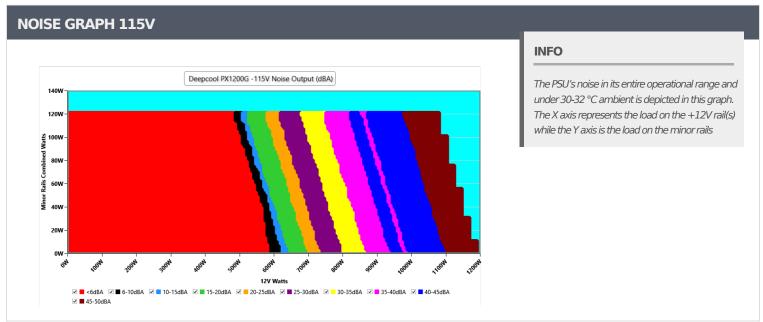
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VAMPIRE POWER -115V								
Detailed Results								
	Average	Min	Limit Min	Max	Limit Max	Result		
Mains Voltage RMS:	115.13 V	115.13 V	113.85 V	115.16 V	116.15 V	PASS		
Mains Frequency:	60.00 Hz	59.91 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS		
Mains Voltage 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:	0.015 W	0.013 W	N/A	0.018 W	N/A	N/A		
Apparent Power:	10.064 W	10.059 W	N/A	10.072 W	N/A	N/A		
Power Factor:	0.002	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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10-1	.10% LOAE	TESTS 1	L15V									
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts		
100/	8.114A	1.983A	2.003A	0.994A	120.02	00.0050/			44.82°C	0.982		
10%	12.129V	5.045V	3.294V	5.032V	138.588	86.605%	0	<6.0	40.48°C	115.08V		
	17.244A	2.977A	3.006A	1.194A	239.984	00 0070/		.6.0	45.51°C	0.988		
20%	12.125V	5.041V	3.293V	5.026V	266.388	90.087%	0	<6.0	40.63°C	115.05V		
200/	26.723A	3.473A	3.508A	1.394A	359.333	01.4050/	0	.6.0	46.36°C	0.985		
30%	12.097V	5.04V	3.293V	5.022V	392.775	91.485%	0	0 <6.0	41.13°C	115.02V		
4007	36.297A	3.971A	4.01A	1.595A	479.666	01.4020/	0	.6.0	47.41°C	0.987		
40%	12.080V	5.038V	3.292V	5.017V	524.33	91.482%		<6.0	41.72°C	114.98\		
50 0/	45.521A	4.968A	5.015A	1.797A	599.461	01.0410/	449		6.0	42.12°C	0.988	
50%	12.059V	5.033V	3.29V	5.01V	658.448	91.041%		<6.0	48.23°C	114.95\		
2001	54.839A	5.965A	6.02A	1.998A	719.982	22.24224			020		42.89°C	0.99
60%	12.038V	5.031V	3.289V	5.005V	796.944	90.342% 829	23.7	49.39°C	114.92\			
700/	64.120A	6.964A	7.026A	2.2A	839.723	00 5010/	1110	22.7	43.7°C	0.992		
70%	12.018V	5.028V	3.288V	5V	937.288	89.591%	1118	32.7	50.74°C	114.88\		
000/	73.482A	7.964A	8.032A	2.302A	959.715	00.7220/	1262	20.2	44.05°C	0.993		
80%	12.001V	5.024V	3.286V	4.996V	1081.572	88.733%	1362	39.3	52.14°C	114.84\		
2221	83.150A	8.468A	8.522A	2.405A	1079.54	07.01.10/			44.49°C	0.994		
90%	11.991V	5.02V	3.285V	4.991V	1229.349	87.814%	1593	45.5	53.54°C	114.81\		
7.000/	92.612A	8.973A	9.044A	3.014A	1199.613	06.7000/	1015	16.0	45.59°C	0.995		
100%	11.985V	5.016V	3.283V	4.977V	1382.052	86.799%	1915	46.8	55.61°C	114.77\		
11001	102.003A	9.98A	10.147A	3.017A	1320.219	OF F077	2122	F1.0	46.76°C	0.995		
110%	11.979V	5.01V	3.281V	4.973V	1543.464	85.537%	2123	51.2	57.68°C	114.73\		
01.7	0.116A	14.303A	14.499A	0A	121.302	01 000:	46-		41.89°C	0.982		
CL1	12.136V	5.048V	3.29V	5.057V	148.13	81.89%	401	<6.0	47.38°C	115.1V		
CI D	0.115A	21.746A	0A	0A	111.391	00.22727	200		38.51°C	0.982		
CL2	12.143V	5.058V	3.291V	5.08V	138.71	80.307%	399	<6.0	45.57°C	115.11\		
0.0	0.116A	0A	22.036A	0A	74.003				37.22°C	0.971		
CL3	12.127V	5.048V	3.294V	5.04V	98.138	75.406%	397	<6.0	46.3°C	115.12\		
.	100.090A	0A	0A	0A	1200.367				47.13°C	0.995		
CL4	11.993V	5.027V	3.292V	5.034V	1381.042	86.917%	1993	51.8	58.08°C	114.78\		

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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	1.225A	0.494A	0.499A	0.198A	20.003	74.966%	0	<6.0	39.86°C	0.888
	12.129V	5.064V	3.303V	5.063V	26.682				36.78°C	115.1V
40W	2.695A	0.692A	0.7A	0.297A	40.001	80.146%	0	<6.0	40.38°C	0.947
	12.132V	5.06V	3.302V	5.058V	49.908				37.08°C	115.1V
60W	4.166A	0.892A	0.901A	0.397A	60	84.933%	0	<6.0	41.84°C	0.961
	12.129V	5.05V	3.297V	5.046V	70.639				38.06°C	115.09V
80W	5.636A	1.09A	1.101A	0.496A	79.964	84.95%	0	<6.0	43.07°C	0.971
	12.123V	5.047V	3.296V	5.041V	94.136				39.13°C	115.09V

RIPPLE MEA	SUREMENTS 115V					
Test	12V	5V	3.3V	5VSB	Pass/Fail	
10% Load	5.06mV	2.91mV	4.25mV	4.18mV	Pass	
20% Load	5.72mV	3.22mV	4.20mV	4.13mV	Pass	
30% Load	11.73mV	3.73mV	5.48mV	4.49mV	Pass	
40% Load	9.69mV	3.37mV	5.32mV	4.94mV	Pass	
50% Load	8.31mV	3.32mV	4.76mV	4.43mV	Pass	
60% Load	8.73mV	3.89mV	7.57mV	4.79mV	Pass	
70% Load	9.35mV	12.32mV	13.61mV	13.15mV	Pass	
80% Load	9.91mV	4.09mV	8.29mV	4.84mV	Pass	
90% Load	10.62mV	4.04mV	9.26mV	4.84mV	Pass	
100% Load	14.78mV	4.88mV	9.34mV	5.96mV	Pass	
110% Load	15.02mV	4.97mV	9.94mV	6.02mV	Pass	
Crossload1	6.48mV	4.55mV	9.91mV	5.09mV	Pass	
Crossload2	7.41mV	5.17mV	4.55mV	4.23mV	Pass	
Crossload3	52.97mV	3.78mV	15.40mV	5.56mV	Pass	
Crossload4	14.15mV	3.93mV	6.19mV	5.17mV	Pass	

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Aristeidis BitziopoulosLab Director

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