

Anex NZXT C1200 Gold

Lab ID#: NZ12002112

Receipt Date: Dec 29, 2022

Test Date: Jan 17, 2023

Report: 23PS2112A

Report Date: Jan 16, 2023

DUT INFORMATIO	N
Brand	NZXT
Manufacturer (OEM)	Channel Well Technology
Series	C Gold
Model Number	PA-2G1BB
Serial Number	5222AN44400001
DUT Notes	

DUT SPECIFICAT	DUT SPECIFICATIONS					
Rated Voltage (Vrms)	100-240					
Rated Current (Arms)	14					
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	88.929%
Efficiency With 10W (≤500W) or 2% (>500W)	79.097
Average Efficiency 5VSB	78.703%
Standby Power Consumption (W)	0.0448000
Average PF	0.990
Avg Noise Output	35.78 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard+

POWER SPECIFICATIONS							
Rail		3.3V	5V	12V	5VSB	-12V	
	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)	25.7
AC Loss to PWR_OK Hold Up Time (ms)	23.1
PWR_OK Inactive to DC Loss Delay (ms)	2.6

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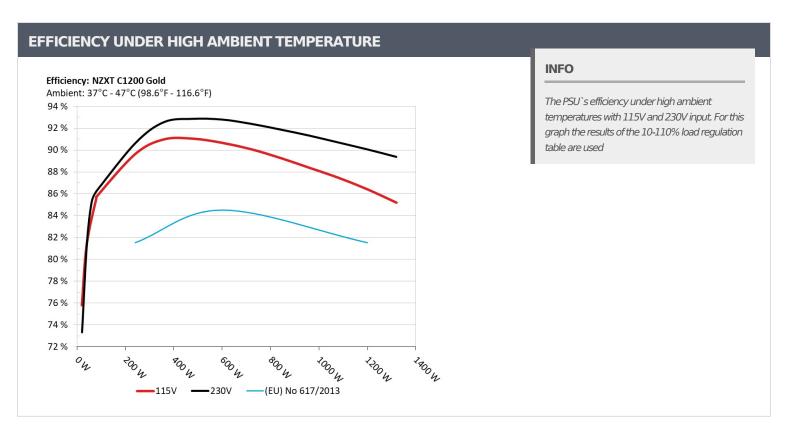
CABLES AND CONNECTORS								
Modular Cables								
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors				
ATX connector 20+4 pin (600mm)	1	1	16-20AWG	No				
4+4 pin EPS12V (700mm)	1	1	16AWG	No				
8 pin EPS12V (700mm)	1	1	16AWG	No				
6+2 pin PCIe (650mm+150mm)	2	4	16-18AWG	No				
12+4 pin PCle (640mm) (600W)	1	1	16-24AWG	No				
SATA (500mm+150mm)	2	4	18AWG	No				
SATA (500mm+150mm+150mm+150mm)	1	4	18AWG	No				
4-pin Molex (500mm+150mm+150mm+150mm)	1	4	18AWG	No				
AC Power Cord (1410mm) - C13 coupler	1	1	14AWG	-				

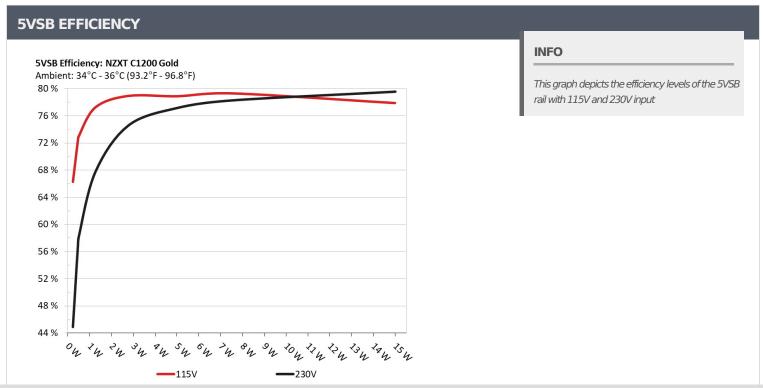
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5VSB EFFICIEN	CY -115V (ERP LOT	Г 3/6 & CEC)		
Test#	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.227W	CC 250/	0.034
1	5.04V	0.343W	66.25%	115.16V
2	0.09A	0.454W	72.2000/	0.062
2	5.039V	0.628W	72.289%	115.16V
2	0.55A	2.769W	70.0210/	0.273
3	5.032V	3.508W	78.931%	115.16V
-	1A	5.027W	70.0050/	0.379
1	5.026V	6.372W	78.885%	115.16V
_	1.5A	7.531W	70.2050/	0.436
5	5.019V	9.496W	79.305%	115.16V
	3A	14.992W	77.0700/	0.511
6	4.997V	19.25W	77.878%	115.15V

5VSB EFFICII	ENCY -230V (ERP	P LOT 3/6 & CEC)		
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.227W	44.0040/	0.015
1	5.043V	0.506W	44.884%	230.39V
_	0.09A	0.454W	FC 70 40/	0.024
2	5.041V	0.801W	56.724%	230.38V
2	0.55A	2.769W	745510/	0.106
3	5.034V	3.715W	74.551%	230.39V
	1A	5.029W	77.1440/	0.174
4	5.027V	6.517W	77.144%	230.39V
_	1.5A	7.532W	70.0400/	0.235
5	5.02V	9.626W	78.249%	230.39V
•	3A	14.998W	70 5000/	0.343
6	4.999V	18.859W	79.529%	230.39V

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115V

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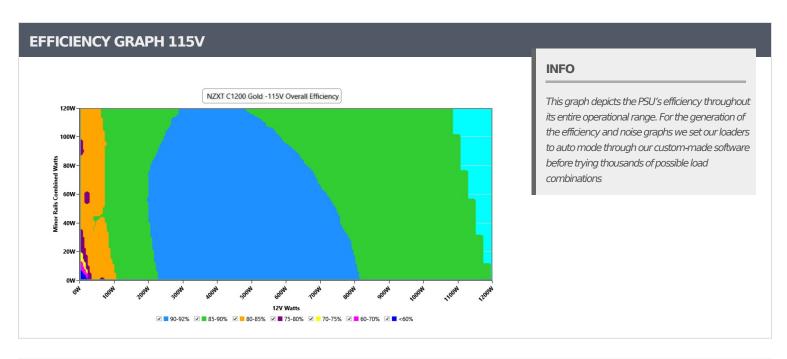
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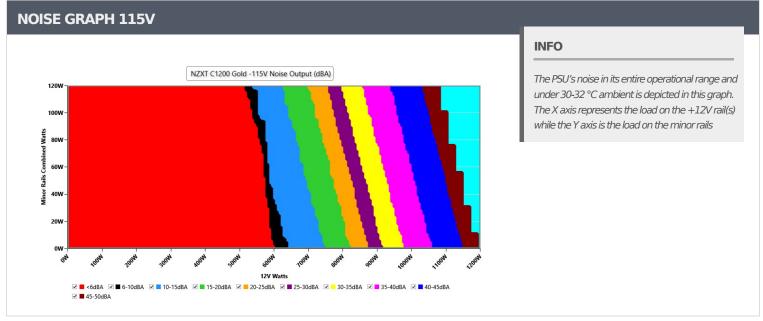
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VAMPIRE POWER -115V								
Detailed Results								
	Average	Min	Limit Min	Max	Limit Max	Result		
Mains Voltage RMS:	115.12 V	115.09 V	113.85 V	115.13 V	116.15 V	PASS		
Mains Frequency:	60.00 Hz	59.96 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS		
Mains Voltage 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	0.043 W	N/A	0.047 W	N/A	N/A		
Apparent Power:	10.007 W	10.001 W	N/A	10.016 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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_10-1	.10% LOAE	FIESIS I	115V							
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100/	8.100A	1.991A	2.008A	0.998A	119.98	06 21 40/	0		44.53°C	0.985
10%	12.144V	5.023V	3.286V	5.011V	139.165	86.214%	0	<6.0	40.07°C	115.09\
20%	17.216A	2.988A	3.013A	1.199A	239.932	90.126%	0	<6.0	45.77°C	0.992
2070	12.142V	5.02V	3.286V	5.007V	266.213	90.12070		<0.0	40.94°C	115.06\
30%	26.664A	3.489A	3.516A	1.4A	359.149	91.481%	0	<6.0	46.34°C	0.986
30%	12.118V	5.017V	3.285V	5.002V	392.592	91.401%		<0.0	41.18°C	115.03\
400/	36.213A	3.989A	4.019A	1.601A	479.53	91.545%	404	-6.O	41.94°C	0.988
40%	12.104V	5.014V	3.284V	4.996V	523.825	91.343%	404	<6.0	47.45°C	115V
50%	45.397A	4.989A	5.025A	1.803A	599.308	91.168%	421	-6.O	42.3°C	0.991
30%	12.089V	5.011V	3.284V	4.992V	657.366	91.100%	421	<6.0	48.26°C	114.97
600/	54.670A	5.99A	6.031A	2A	719.821	90.577%	646	14.7	42.91°C	0.992
60%	12.073V	5.009V	3.283V	4.988V	794.705				49.26°C	114.93
70%	63.896A	6.993A	7.038A	2.208A	839.593	00 7050/	89.785% 984	28.5	43.31°C	0.994
7070	12.058V	5.006V	3.282V	4.983V	935.113	09.70370			50.32°C	114.91
80%	73.219A	7.999A	8.044A	2.31A	959.619	88.881%	1324	38.1	43.86°C	0.994
00 /0	12.043V	5.002V	3.281V	4.979V	1079.659	00.00170	1324	30.1	51.91°C	114.87
90%	82.853A	8.503A	8.535A	2.413A	1079.432	87.969%	1808	46.2	44.23°C	0.995
90%	12.033V	4.998V	3.28V	4.974V	1227.062	07.909%	1000	46.3	53.24°C	114.83
100%	92.273A	9.012A	9.058A	3.024A	1199.516	86.908%	2152	50.2	45.08°C	0.996
100%	12.028V	4.993V	3.278V	4.961V	1380.224	00.90070		JU.Z	55.13°C	114.79
110%	101.641A	10.023A	10.162A	3.027A	1320.135	85.682%	2153	F0.3	46.53°C	0.996
110%	12.021V	4.988V	3.276V	4.957V	1540.741	03.00270	2133	50.2	57.43°C	114.75
CL1	0.115A	14.372A	14.532A	0A	121.286	91 /10/	266	24.6	40.24°C	0.985
CLI	12.160V	5.024V	3.282V	5.038V	148.998	81.4%	866	24.6	45.65°C	115.11
CL2	0.115A	21.842A	0A	0A	111.384	80.309%	868	24.7	41.63°C	0.985
CLZ	12.166V	5.036V	3.28V	5.065V	138.695	00.30970	000	Z4. <i>1</i>	49°C	115.11
Cl 3	0.120A	0A	22.071A	0A	74.039	76.954%	1099	21 0	42.84°C	0.98
CL3	12.096V	5.021V	3.289V	5.013V	96.214	70.934%	1099	31.8	52.03°C	115.12
CI 4	99.795A	0A	0A	0A	1200.284	07.0660/	2151	E0.2	45.24°C	0.996
CL4	12.027V	5.003V	3.285V	5.011V	1378.608	87.066%	2151	50.2	56.16°C	114.8V

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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	1.228A	0.496A	0.5A	0.198A	19.99	76.274%	0	<6.0	39.65°C	0.864
	12.093V	5.044V	3.296V	5.043V	26.212				36.54°C	115.12V
40W	2.702A	0.695A	0.701A	0.298A	39.989	81.838%	0	<6.0	40.38°C	0.947
	12.096V	5.039V	3.294V	5.037V	48.867				37.1°C	115.11V
60W	4.180A	0.895A	0.903A	0.398A	59.987	86.097%	0	<6.0	41.75°C	0.967
	12.088V	5.027V	3.288V	5.024V	69.676				37.99°C	115.11V
80W	5.652A	1.094A	1.104A	0.498A	79.931	85.988%	0	<6.0	43.01°C	0.981
	12.086V	5.025V	3.287V	5.02V	92.953				39.05°C	115.1V

RIPPLE MEA	SUREMENTS 115V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	5.26mV	4.35mV	5.32mV	4.54mV	Pass
20% Load	6.23mV	5.27mV	5.73mV	4.54mV	Pass
30% Load	10.92mV	4.91mV	6.04mV	4.84mV	Pass
40% Load	8.43mV	5.62mV	7.88mV	5.20mV	Pass
50% Load	8.94mV	5.57mV	7.27mV	4.94mV	Pass
60% Load	9.60mV	13.65mV	19.50mV	13.46mV	Pass
70% Load	9.91mV	7.98mV	14.64mV	6.93mV	Pass
80% Load	10.83mV	6.65mV	11.62mV	5.30mV	Pass
90% Load	11.49mV	7.26mV	11.41mV	5.45mV	Pass
100% Load	17.81mV	8.44mV	13.83mV	6.62mV	Pass
110% Load	18.62mV	8.90mV	14.41mV	6.95mV	Pass
Crossload1	7.12mV	6.19mV	10.65mV	5.22mV	Pass
Crossload2	10.06mV	6.85mV	5.32mV	4.43mV	Pass
Crossload3	53.68mV	6.39mV	16.07mV	6.07mV	Pass
Crossload4	16.07mV	7.12mV	10.08mV	5.71mV	Pass

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CERTIFICATIONS 115V







Aristeidis BitziopoulosLab Director

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