

## Anex

Vetroo 1000G5

Lab ID#: VT10002164  
Receipt Date: Mar 23, 2023  
Test Date: Apr 3, 2023

Report: 23PS2164A

Report Date: Mar 31, 2023

### DUT INFORMATION

Brand	Vetroo
Manufacturer (OEM)	Andyson
Series	
Model Number	1000G5
Serial Number	
DUT Notes	

### DUT SPECIFICATIONS

Rated Voltage (Vrms)	100-240
Rated Current (Arms)	12-6
Rated Frequency (Hz)	50-60
Rated Power (W)	1000
Type	ATX12V
Cooling	120mm Fluid Dynamic Bearing Fan (HA1225M12F-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	89.571%
Efficiency With 10W (≤500W) or 2% (>500W)	78.899
Average Efficiency 5VSB	81.274%
Standby Power Consumption (W)	0.0607000
Average PF	0.980
Avg Noise Output	21.67 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A

### 230V

Average Efficiency	91.495%
Average Efficiency 5VSB	80.134%
Standby Power Consumption (W)	0.1242000
Average PF	0.949
Avg Noise Output	21.73 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A

## POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	25	25	83.3	3	0.3
	Watts	125		999.6	15	3.6
Total Max. Power (W)		1000				

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

Hold-Up Time (ms)	22.5
AC Loss to PWR_OK Hold Up Time (ms)	17.4
PWR_OK Inactive to DC Loss Delay (ms)	5.1

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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	18AWG	No
4+4 pin EPS12V (700mm)	2	2	18AWG	No
6+2 pin PCIe (500mm+150mm)	2	4	18AWG	No
6+2 pin PCIe (500mm)	2	2	18AWG	No
12+4 pin PCIe (610mm) (600W)	1	1	16-26AWG	No
SATA (455mm+150mm+150mm+150mm)	2	8	18AWG	No
4-pin Molex (455mm+150mm+150mm)	2	6	18AWG	No
FDD Adapter (+100mm)	1	1	20AWG	No
AC Power Cord (1400mm) - C13 coupler	1	1	18AWG	-

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General Data	
Manufacturer (OEM)	Andyson
PCB Type	Double- Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	NTC Thermistor SCK205R0 & Relay HF46F-G
Bridge Rectifier(s)	2x HY2110
APFC MOSFETs	2x Infineon IPP50R140CP (550V, 15A @ 100°C, Rds(on): 0.14Ohm)
APFC Boost Diode	1x CREE C3D08060A(600V, 8A @ 152°C)
Bulk Cap(s)	2x Nippon Chemi-Con (420V, 470uF, 2000h @ 105°C, KMQ)
Main Switchers	4x Infineon IPP60R190P6 (600V, 12.7A @ 100°C, Rds(on): 0.19Ohm)
APFC Controller	Champion CM6500UNX
Resonant Controller	Champion CU6901VPA
Topology	Primary side: APFC, Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	8x Infineon BSC014N04LS (40V, 100A @ 100°C, Rds(on): 1.4mOhm)
5V & 3.3V	DC-DC Converters: 4x Infineon BSC018NE2LS (25V, 97A @ 100°C, Rds(on): 1.4mOhm) PWM Controller(s): ANPEC APW7160A
Filtering Capacitors	Electrolytic: 7x Nichicon (4-10,000h @ 105°C, HE) 3x Rubycon (6-10,000h @ 105°C, ZLH) 2x Chemi-Con (4-10,000h @ 105°C, KY) Polymer: 7x Polycap (470µf 16V 105°C), 12 x FPCap, 5x Chemi-Con
Supervisor IC	Weltrend WT7527RA (OCP, OVP, UVP, SCP, PG)
Fan Model	120mm Fluid Dynamic Bearing Fan (HA1225M12F-Z) DC12V 0.45A
5VSB Circuit	
Rectifier	1x PFR10V45CT SBR (45V, 10A)
Standby PWM Controller	Excelliance MOS Corp EM8569C

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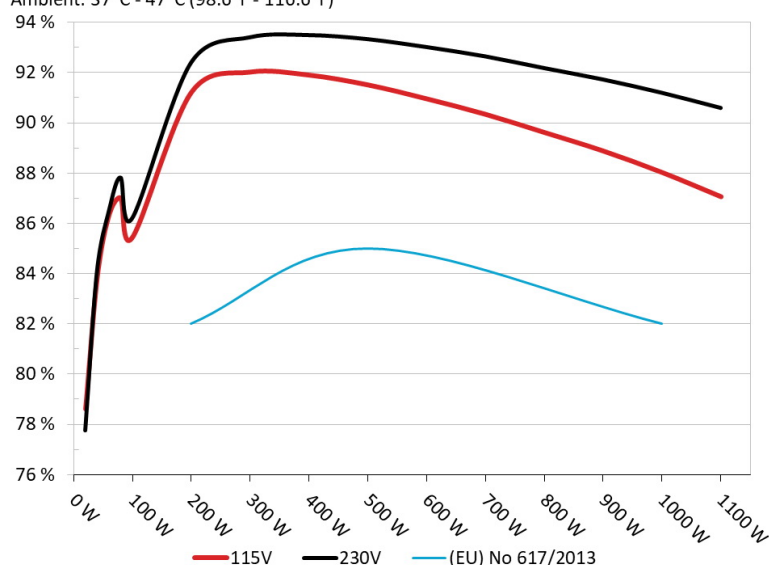
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### EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

#### Efficiency: Vetoo 1000G5

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



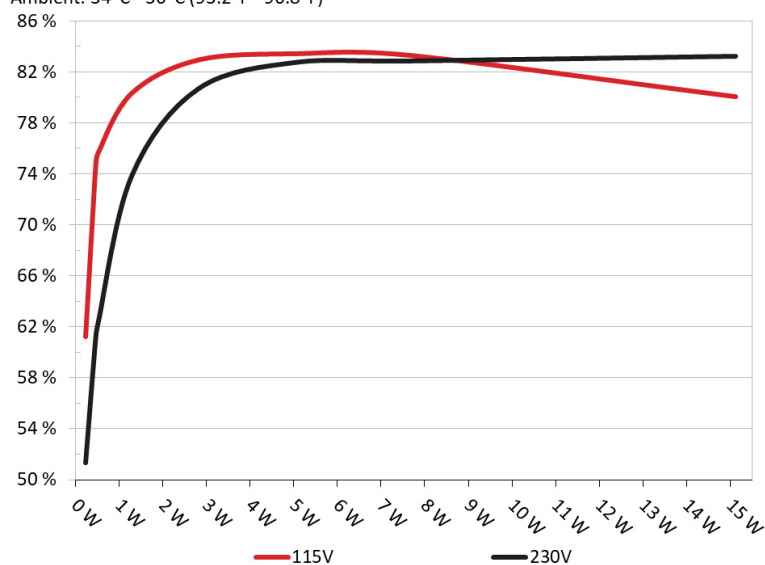
#### INFO

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: Vetoo 1000G5

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	0.231W	60.757%	0.049
	5.143V	0.38W		114.88V
2	0.09A	0.463W	74.188%	0.08
	5.141V	0.624W		114.88V
3	0.55A	2.819W	82.438%	0.307
	5.126V	3.42W		114.88V
4	1A	5.111W	82.923%	0.396
	5.111V	6.164W		114.87V
5	1.5A	7.641W	82.798%	0.436
	5.094V	9.229W		114.87V
6	3A	15.123W	79.553%	0.498
	5.042V	19.009W		114.87V

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

5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.231W	0.018
	5.142V	0.455W	229.78V
2	0.09A	0.463W	0.029
	5.141V	0.764W	229.77V
3	0.55A	2.819W	0.127
	5.126V	3.516W	229.77V
4	1A	5.111W	0.202
	5.111V	6.212W	229.77V
5	1.5A	7.641W	0.265
	5.094V	9.279W	229.77V
6	3A	15.128W	0.358
	5.043V	18.289W	229.77V

### Test #

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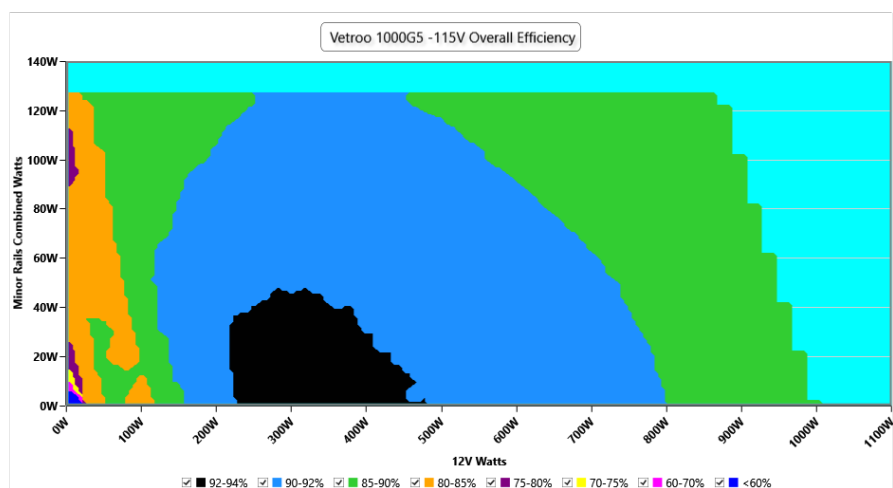
# 115V

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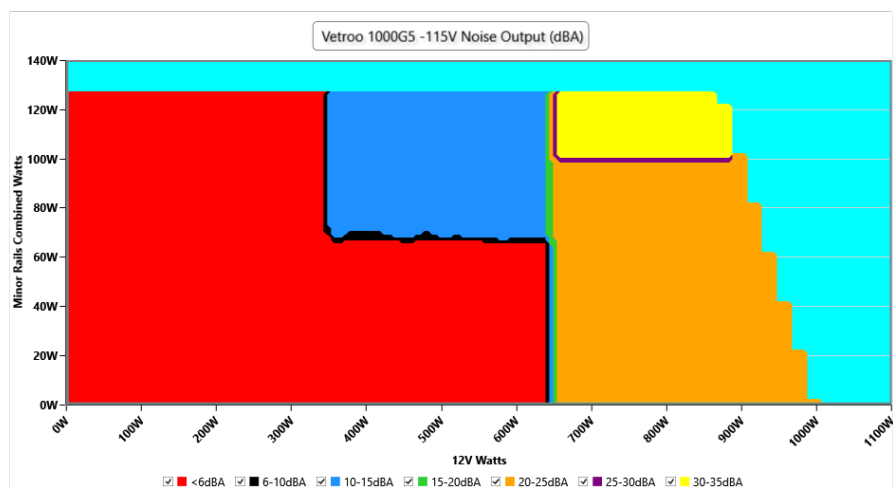
### EFFICIENCY GRAPH 115V



#### 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:	114.90 V	114.82 V	113.85 V	114.97 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.02 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.419	1.417	1.340	1.422	1.490	PASS
Mains Voltage THD:	0.22 %	0.17 %	N/A	0.30 %	2.00 %	PASS
Real Power:	0.061 W	-0.005 W	N/A	0.089 W	N/A	N/A
Apparent Power:	7.955 W	7.922 W	N/A	8.001 W	N/A	N/A
Power Factor:	0.007	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%	6.423A	1.993A	1.985A	0.981A	99.968	85.448%	0	<6.0	44.39°C	0.962
	12.202V	5.017V	3.324V	5.094V	116.993				40.29°C	114.83V
20%	13.848A	2.991A	2.98A	1.182A	199.904	91.216%	0	<6.0	45.29°C	0.976
	12.204V	5.014V	3.321V	5.077V	219.158				40.95°C	114.8V
30%	21.650A	3.491A	3.479A	1.383A	299.943	92.026%	0	<6.0	45.99°C	0.979
	12.189V	5.012V	3.32V	5.06V	325.933				41.37°C	114.77V
40%	29.390A	3.992A	3.978A	1.586A	399.418	91.907%	473	<6.0	41.7°C	0.982
	12.188V	5.01V	3.318V	5.044V	434.588				46.74°C	114.73V
50%	36.812A	4.993A	4.976A	1.79A	499.143	91.519%	792	14.5	42.43°C	0.982
	12.187V	5.007V	3.316V	5.027V	545.395				47.89°C	114.71V
60%	44.293A	5.996A	5.976A	1.996A	599.682	90.961%	788	14.4	42.91°C	0.983
	12.189V	5.003V	3.313V	5.01V	659.275				48.93°C	114.66V
70%	51.690A	7.001A	6.978A	2.203A	699.43	90.345%	783	14.3	43.4°C	0.985
	12.194V	4.999V	3.31V	4.993V	774.176				50.49°C	114.63V
80%	59.160A	8A	7.98A	2.309A	799.433	89.623%	1342	31.9	43.84°C	0.986
	12.197V	4.997V	3.308V	4.979V	891.993				51.94°C	114.59V
90%	66.934A	8.506A	8.469A	2.416A	899.24	88.886%	1343	31.9	44.98°C	0.987
	12.203V	4.995V	3.306V	4.965V	1011.68				54.12°C	114.54V
100%	74.468A	9.01A	8.989A	3.04A	999.253	88.031%	1341	31.9	45.9°C	0.988
	12.214V	4.993V	3.304V	4.934V	1135.11				56.22°C	114.51V
110%	81.930A	10.017A	10.086A	3.047A	1099.887	87.062%	1501	34.7	46.55°C	0.989
	12.225V	4.99V	3.301V	4.922V	1263.335				57.41°C	114.46V
CL1	0.113A	15.081A	15.009A	0A	126.291	80.956%	794	14.5	41.39°C	0.97
	12.246V	4.993V	3.305V	5.108V	156.001				46.84°C	114.82V
CL2	0.113A	25.039A	0A	0A	126.249	79.011%	1354	32.0	40.31°C	0.971
	12.228V	4.987V	3.314V	5.114V	159.791				47.33°C	114.81V
CL3	0.113A	0A	24.966A	0A	83.897	70.859%	1351	32.0	40.29°C	0.963
	12.217V	5.009V	3.305V	5.115V	118.4				49.39°C	114.83V
CL4	81.983A	0A	0A	0A	999.844	88.698%	1500	34.7	45.37°C	0.988
	12.196V	5.013V	3.318V	5.05V	1127.245				56.31°C	114.52V

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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	1.240A	0.5A	0.5A	0.2A	20.264	78.606%	0	<6.0	39.57°C	0.81
	12.155V	5.023V	3.328V	5.129V	25.779				36.52°C	114.86V
40W	2.720A	0.7A	0.7A	0.3A	40.434	83.942%	0	<6.0	40.77°C	0.912
	12.155V	5.022V	3.328V	5.124V	48.169				37.43°C	114.85V
60W	4.224A	0.9A	0.9A	0.4A	60.876	86.401%	0	<6.0	42.33°C	0.94
	12.151V	5.021V	3.327V	5.118V	70.457				38.58°C	114.85V
80W	5.622A	1.095A	1.091A	0.489A	79.92	87.003%	0	<6.0	43.09°C	0.952
	12.148V	5.019V	3.326V	5.113V	91.861				39.18°C	114.84V

### RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	9.46mV	13.23mV	12.53mV	14.94mV	Pass
20% Load	9.98mV	13.34mV	12.28mV	15.29mV	Pass
30% Load	11.30mV	13.59mV	12.69mV	16.47mV	Pass
40% Load	10.90mV	17.98mV	14.22mV	15.86mV	Pass
50% Load	11.10mV	14.92mV	12.94mV	17.59mV	Pass
60% Load	10.49mV	14.92mV	13.10mV	18.77mV	Pass
70% Load	11.67mV	15.28mV	14.38mV	19.69mV	Pass
80% Load	12.69mV	16.20mV	18.31mV	46.49mV	Pass
90% Load	10.69mV	16.35mV	15.75mV	21.79mV	Pass
100% Load	14.86mV	17.22mV	16.27mV	24.54mV	Pass
110% Load	15.50mV	18.33mV	16.71mV	28.41mV	Pass
Crossload1	11.02mV	15.51mV	17.23mV	13.59mV	Pass
Crossload2	11.66mV	21.45mV	13.40mV	13.40mV	Pass
Crossload3	10.79mV	13.69mV	20.36mV	12.22mV	Pass
Crossload4	15.47mV	17.72mV	14.80mV	14.83mV	Pass

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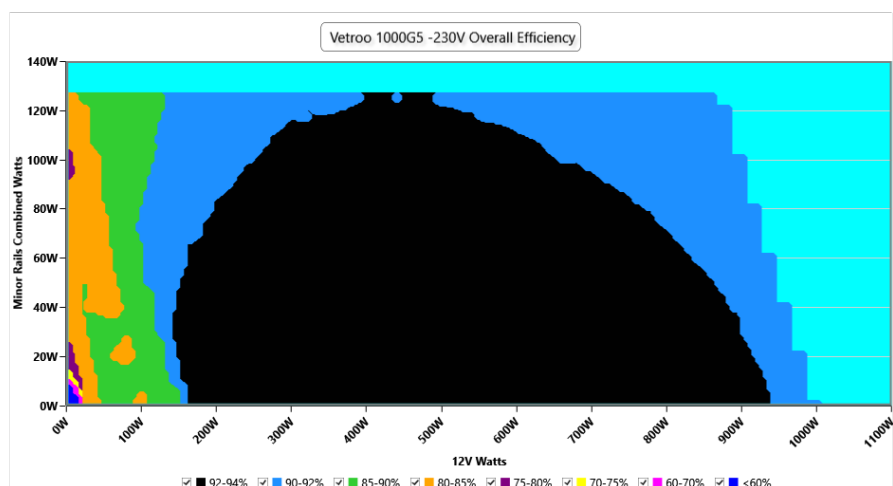
# 230V

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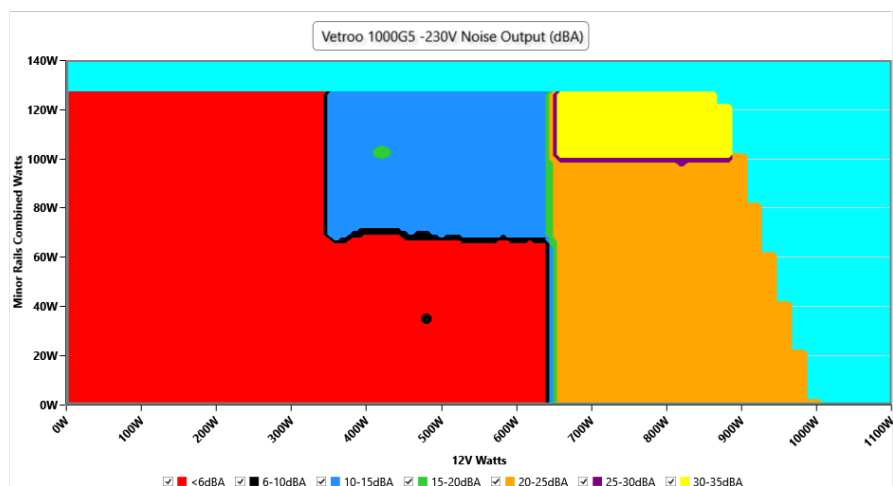
### EFFICIENCY GRAPH 230V



#### 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 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:	229.76 V	229.70 V	227.70 V	229.83 V	232.30 V	PASS
Mains Frequency:	50.00 Hz	49.99 Hz	49.50 Hz	50.01 Hz	50.50 Hz	PASS
Mains Voltage CF:	1.417	1.416	1.340	1.418	1.490	PASS
Mains Voltage THD:	0.16 %	0.13 %	N/A	0.20 %	2.00 %	PASS
Real Power:	0.124 W	0.079 W	N/A	0.175 W	N/A	N/A
Apparent Power:	27.332 W	27.295 W	N/A	27.371 W	N/A	N/A
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A

#### INFO

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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%	6.420A	1.993A	1.985A	0.982A	99.974	86.204%	0	<6.0	44.45°C	0.852
	12.208V	5.016V	3.324V	5.092V	115.974				40.23°C	229.75V
20%	13.844A	2.991A	2.98A	1.182A	199.908	92.394%	0	<6.0	45.39°C	0.923
	12.208V	5.014V	3.321V	5.075V	216.365				40.74°C	229.74V
30%	21.646A	3.492A	3.479A	1.384A	299.944	93.401%	0	<6.0	46.51°C	0.948
	12.192V	5.011V	3.319V	5.058V	321.136				41.37°C	229.72V
40%	29.390A	3.992A	3.978A	1.587A	399.413	93.487%	793	14.5	41.85°C	0.96
	12.188V	5.009V	3.318V	5.042V	427.239				47.46°C	229.71V
50%	36.828A	4.993A	4.976A	1.791A	499.133	93.328%	791	14.5	42.38°C	0.966
	12.182V	5.006V	3.315V	5.025V	534.817				48.43°C	229.69V
60%	44.316A	5.997A	5.976A	1.997A	599.665	93.012%	788	14.4	42.75°C	0.97
	12.182V	5.002V	3.313V	5.008V	644.713				49.38°C	229.67V
70%	51.720A	7.002A	6.978A	2.204A	699.413	92.642%	782	14.3	43.44°C	0.973
	12.187V	4.998V	3.31V	4.99V	754.966				50.48°C	229.65V
80%	59.190A	8A	7.98A	2.311A	799.407	92.175%	1343	31.9	43.78°C	0.975
	12.190V	4.996V	3.308V	4.976V	867.265				51.87°C	229.64V
90%	66.978A	8.508A	8.469A	2.418A	899.235	91.723%	1343	31.9	44.82°C	0.976
	12.194V	4.994V	3.306V	4.962V	980.38				53.89°C	229.61V
100%	74.532A	9.012A	8.988A	3.043A	999.246	91.194%	1342	31.9	45.73°C	0.978
	12.204V	4.992V	3.304V	4.929V	1095.739				55.76°C	229.6V
110%	82.006A	10.02A	10.086A	3.05A	1099.868	90.588%	1500	34.7	46.65°C	0.979
	12.213V	4.989V	3.302V	4.918V	1214.142				57.47°C	229.58V
CL1	0.113A	15.085A	15.006A	0A	126.291	81.689%	793	14.5	40.64°C	0.891
	12.245V	4.991V	3.306V	5.107V	154.598				45.99°C	229.75V
CL2	0.113A	25.047A	0A	0A	126.248	79.684%	1352	32.0	40.08°C	0.894
	12.217V	4.985V	3.314V	5.114V	158.434				47.13°C	229.75V
CL3	0.113A	0A	24.96A	0A	83.895	71.467%	1353	32.0	42.06°C	0.853
	12.215V	5.009V	3.306V	5.115V	117.396				51.15°C	229.75V
CL4	82.039A	0A	0A	0A	999.836	91.754%	1500	34.7	45.26°C	0.977
	12.187V	5.012V	3.318V	5.047V	1089.694				56.22°C	229.6V

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### 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	1.222A	0.498A	0.496A	0.195A	19.997	77.746%	0	<6.0	39.68°C	0.489
	12.148V	5.022V	3.328V	5.128V	25.721				36.58°C	229.77V
40W	2.690A	0.697A	0.694A	0.293A	39.995	84.088%	0	<6.0	41.15°C	0.648
	12.147V	5.022V	3.327V	5.123V	47.56				37.87°C	229.77V
60W	4.160A	0.896A	0.893A	0.391A	59.992	86.467%	0	<6.0	42.08°C	0.749
	12.144V	5.021V	3.327V	5.118V	69.387				38.6°C	229.76V
80W	5.626A	1.096A	1.091A	0.489A	79.93	87.816%	0	<6.0	43.36°C	0.805
	12.142V	5.019V	3.326V	5.112V	91.019				39.57°C	229.76V

### RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	10.39mV	13.59mV	12.89mV	15.19mV	Pass
20% Load	10.13mV	13.64mV	11.77mV	15.30mV	Pass
30% Load	11.00mV	13.34mV	12.23mV	15.34mV	Pass
40% Load	10.59mV	16.55mV	14.48mV	16.06mV	Pass
50% Load	11.15mV	14.15mV	12.79mV	15.86mV	Pass
60% Load	20.11mV	19.72mV	15.50mV	20.77mV	Pass
70% Load	11.15mV	15.02mV	13.66mV	17.24mV	Pass
80% Load	11.77mV	15.27mV	14.84mV	18.31mV	Pass
90% Load	11.31mV	16.30mV	15.40mV	20.41mV	Pass
100% Load	16.46mV	17.61mV	16.54mV	22.62mV	Pass
110% Load	16.24mV	17.54mV	16.59mV	23.43mV	Pass
Crossload1	11.51mV	14.60mV	16.53mV	14.01mV	Pass
Crossload2	10.90mV	20.89mV	12.99mV	12.84mV	Pass
Crossload3	11.61mV	14.00mV	21.07mV	12.43mV	Pass
Crossload4	16.43mV	17.59mV	14.88mV	15.89mV	Pass

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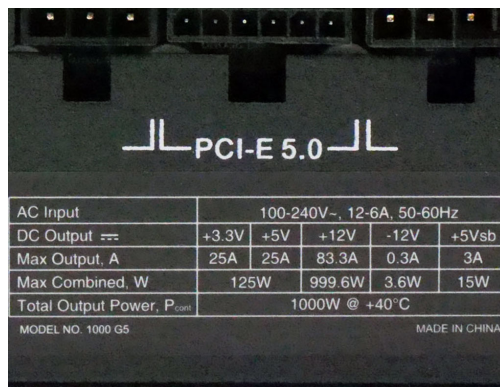


Anex

Vetroo 1000G5

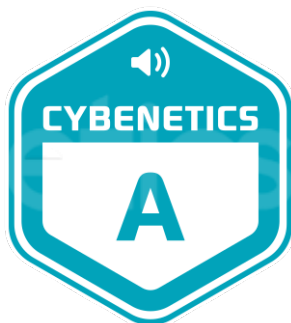
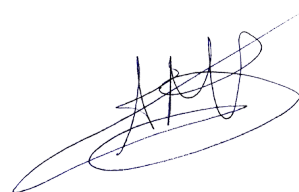


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Power specifications label

## CERTIFICATIONS 115V

**Aristeidis Bitziopoulos**  
Lab Director

## CERTIFICATIONS 230V



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