Antec HCG1000 PRO PLATINUM ATX3.1

Serial Number HCG1000PSU241200950

Lab ID AN10003178

Certification ID 263178

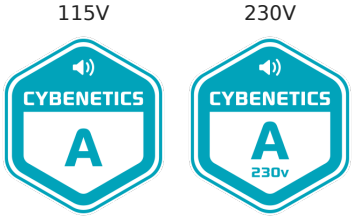
Test Result Report ID: 26PS3178A

Certificate Issue Date: Feb 5, 2026

Scheme: ETA-EMI PSU



Scheme: LAMBDA PSU





Outside Validation Scope

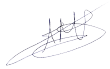
General Information

Test Equipment

Electronic Loads	Chroma 63601-5 x2 Chroma 63600-2 Chroma 63640-80-80 x10 Chroma 63610-80-20
AC Sources	Chroma 6530, APM SP300VAC4000W-P, GW Instek ASR-3500
Power Analyzers	Rohde & Schwarz HMC8015 & NPA701
Oscilloscopes	Picoscope 4444, 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
EMI Analyzer	TekBox TBMR-110M-EU
Isolation Transformer	4kVA
UPS	FSP Champ Tower 3kVA, CyberPower OLS3000E 3kVA
Testing Methodology	Cybenetics PSU Test Protocol

DUT Information(Non-accredited measurements)

Product Identification Details	
Brand	Antec
Model	HCG1000 PRO PLATINUM ATX3.1
OEM/ODM	Seasonic
Serial Number	HCG1000PSU241200950
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	6.5-13

Rated Frequency (Hz)	50-60
Rated Power (W)	1000
Operating Temperature (Continuous Full Load) (°C)	0 - 40
Type	ATX12V
Cable Design	Fully Modular
Warranty	10 years
Cybenetics Measurements	
Dimensions (W x H x D)	150 x 85 x 160mm
Weight	1.90 kg (4.19 lb)
Cooling	135mm Fluid Dynamic Bearing Fan (HA13525H12F-Z)
Semi-Passive Operation	✓ (selectable)
Cybenetics Testing Information	
Lab ID	AN10003178
Date of receipt	Dec 17, 2025
Testing Date	Jan 27, 2026
Report Issued Date	Feb 5, 2026
Engineer Name	Georgios Theodoros Sarimpalas
Authorized By the Laboratory Technical Manager	Aristeidis Bitziopoulos
Signature	

Cables and Connectors(Non-accredited measurements)

Modular Cables				
Description	**Cable Count**	**Connector Count (Total)**	**Gauge**	**Cable Type**
ATX connector 20+4 pin (610mm)	1	1	16-18AWG	Tinned Copper
4+4 pin EPS12V (700mm)	2	2	16AWG	Tinned Copper
6+2 pin PCIe (750mm)	3	3	16AWG	Tinned Copper
12+4 pin PCIe (700mm) (600W)	1	1	16-24AWG	Tinned Copper
SATA (500mm+150mm+150mm+150mm)	3	12	18AWG	Tinned Copper
SATA 3.3 (400mm+150mm)	1	2	18AWG	Tinned Copper
4-pin Molex (450mm+125mm+125mm)	1	3	18AWG	Tinned Copper

Protection Features(Manufacturer)

Over Power Protection	✓
Over Current (+12V) Protection	✓
Over Temperature Protection	✓
Short Circuit Protection	✓
Surge Protection	✓
Inrush Current Protection	✓
Fan Failure Protection	✗

Power Specifications

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	25	25	83	3	0.3
	Watts	125		996	15	3.6
Total Max. Power (W)		1000				

Parts Description

General Data	
Manufacturer (OEM)	Seasonic
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV, 1 Sync Power CM02 (X Capacitor Discharge IC)
Inrush Protection	NTC Thermistor MF72 5D-20L (5 Ohm @ 25°C) & Relay
Bridge Rectifier	2x GBU15JL (600V, 15A @ 115°C)
APFC MOSFETs	2x IPA60R125P6 (600V, 19A @ 100°C, Rds(on): 125mOhm)
APFC Boost Diode	CREE C6D10065A (600V, 19A @ 125°C)
Bulk Cap(s)	1x Nippon Chemi-Con (420V, 560uF , 2000h @ 105°C, KMR) 1x Nippon Chemi-Con (420V, 330uF , 2000h @ 105°C, KMR)
Main Switchers	4x Infineon IPA60R190P6 (650V, 12.7A @ 100°C, Rds(on): 0.12 Ohm)
APFC Controller	Champion CM6500UNX
Resonant Controller	Champion CM6901VPA

Topology	Primary Side: Active PFC, Full-Bridge & LLC Resonant Converter Secondary Side: [12V] Synchronous Rectification & [Minor Rails] DC-DC converters
Secondary Side	
+12V MOSFETs	6x NXP PSMN1R0-40YLD (40V, 198A @ 150°C, Rds(on): 1.1mOhm)
5V & 3.3V	DC-DC Converters: 6x NXP PSMN4R0-30YLD (30V, 67A @ 100°C, Rds(on): 4mOhm) PWM Controller(s): Anpec Electronics APW7159C
Filtering Capacitors	Electrolytic: 1x Rubycon (50V, 100uF,5000h @ 105°C, YXG) 3x Nichicon (16V, 3300uF, 4000h @ 105°C, UHD) 1x NCC (16V, 2200uF, 4000h @ 105°C, KZE) 2x Rubycon (50V, 10uF,7000h @ 105°C, YXG) Polymer: 12V: 6x NCC PSG (16V, 470uF,20000h @ 105°C) 2x Nichicon (16V, 3300uF, 4000h @ 105°C, UHD) Minor Rails: 2x NCC PSF (16V, 270uF,5000h @ 105°C) 2x Nichicon FPCAP (6.3V, 560uF,5000h @ 105°C,S8) Modular Board: 9x Nichicon FPCAP (16V, 470uF,5000h @ 105°C, L8) 8x NCC (16V, 1000uF, 6000h @ 105°C, KZH) 5x Nichicon FPCAP (6.3V, 560uF,5000h @ 105°C,RS8)
Supervisor IC	Weltrend WT7527RA (OVP, UVP, OCP, VX, PGO, FPOB, PSONB)
Fan Controller / Micro Controller	Nuvoton M031FB0AE
Fan Model	Hong Hua HA13525H12F-Z (135mm, 2000rpm, 12V, 0.5A, Fluid Dynamic Bearing Fan)
5VSB Circuit	
Rectifier	Dongke DK5V45R10S (45V, 10 mOhm)
Standby PWM Controller	Excelliance MOS Corp. EM8569C

Test Results

Temperature & Compliance Info

Temperature Range (°C /°F)	28-32 / 82.4-89.6
ErP Lot 3/6 Ready	✓

(EU) No 617/2013 Compliance	✓
ALPM (Alternative Low Power Mode) compatible	✓
ATX v3.1 PSU Power Excursion	✓

Performance Summary

115V

Accredited	
Average Efficiency (>1450 load combinations)	90.209%
Average Noise Output (>1450 Load Combinations)	24.61dBA
Average PF (>1450 Load Combinations)	0.975
Efficiency With 10W (≤500W) or 2% (>500W) Load	78.121%
Standby Power Consumption	0.0602W
Non-Accredited	
12V Ripple (Full Load)	29.35mV
5V Ripple (Full Load)	21.61mV
3.3V Ripple (Full Load)	22.56mV
5VSB Ripple (Full Load)	23.86mV
12V Load Regulation	1.00%
5V Load Regulation	0.42%
3.3V Load Regulation	0.54%
5VSB Load Regulation	2.06%
Inrush Current	23.650A

230V

Accredited	
Average Efficiency (>1450 load combinations)	92.003%
Average Noise Output (>1450 Load Combinations)	24.55dBA
Average PF (>1450 Load Combinations)	0.945
Efficiency With 10W (≤500W) or 2% (>500W) Load	79.023%
Standby Power Consumption	0.1218W

Non-Accredited		
12V Ripple (Full Load)		29.69mV
5V Ripple (Full Load)		20.43mV
3.3V Ripple (Full Load)		21.20mV
5VSB Ripple (Full Load)		22.10mV
12V Load Regulation		1.04%
5V Load Regulation		0.46%
3.3V Load Regulation		0.54%
5VSB Load Regulation		2.06%
Inrush Current		40.590A
12V Transient Response (200%)		11.62V
5V Transient Response (200%)		4.901V
3.3V Transient Response (200%)		3.198V
5VSB Transient Response (200%)		4.961V
Hold-Up Time & PWR_OK Signal		26.70ms
AC Loss to PWR_OK Hold Up Time		22.80ms
PWR_OK Inactive to DC Loss Delay		3.90ms
PSU Timings: T1 (20% / 100%)	72.0ms	71.0ms
PSU Timings: T3 (20% / 100%)	126.0ms	128.0ms
12V OCP (26.9°C / 45.0°C)	92.20A (111.08%), 12.232V	92.20A (111.08%), 12.256V
5V OCP (26.9°C / 45.0°C)	34.8A (139.20%), 4.99V	33.7A (134.80%), 4.985V
3.3V OCP (26.9°C / 45.0°C)	34.7A (138.80%), 3.309V	34.7A (138.80%), 3.308V
5VSB OCP (26.9°C / 45.0°C)	6A (200.00%), 4.966V	5.9A (196.67%), 4.966V
OPP (27.53°C / 43.46°C)	113.40%	112.50%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	26.7
AC Loss to PWR_OK Hold Up Time (ms)	22.8
PWR_OK Inactive to DC Loss Delay (ms)	3.9

Vampire Power

Tables

115V

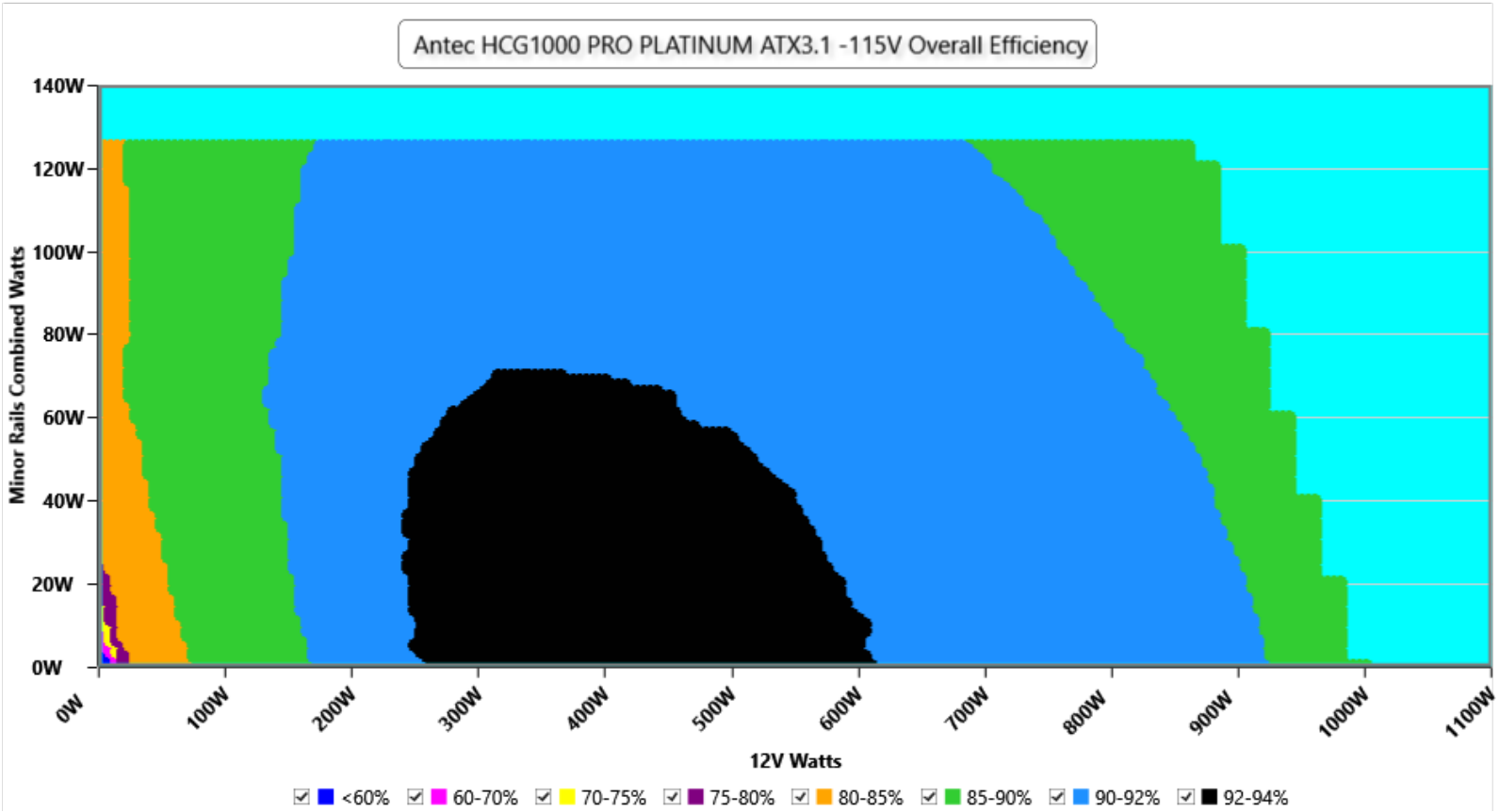
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.06 V	115.04 V	113.85 V	115.09 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.93 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.416	1.490	PASS
Mains Voltage THD:	0.13 %	0.11 %	N/A	0.15 %	2.00 %	PASS
Real Power:	0.060 W	0.036 W	N/A	0.087 W	N/A	N/A
Apparent Power:	10.143 W	10.124 W	N/A	10.164 W	N/A	N/A
Power Factor:	0.006	N/A	N/A	N/A	N/A	N/A

230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.12 V	230.10 V	227.70 V	230.14 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	1.416	1.490	PASS
Mains Voltage THD:	0.14 %	0.13 %	N/A	0.16 %	2.00 %	PASS
Real Power:	0.122 W	0.076 W	N/A	0.198 W	N/A	N/A
Apparent Power:	33.303 W	33.270 W	N/A	33.336 W	N/A	N/A
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

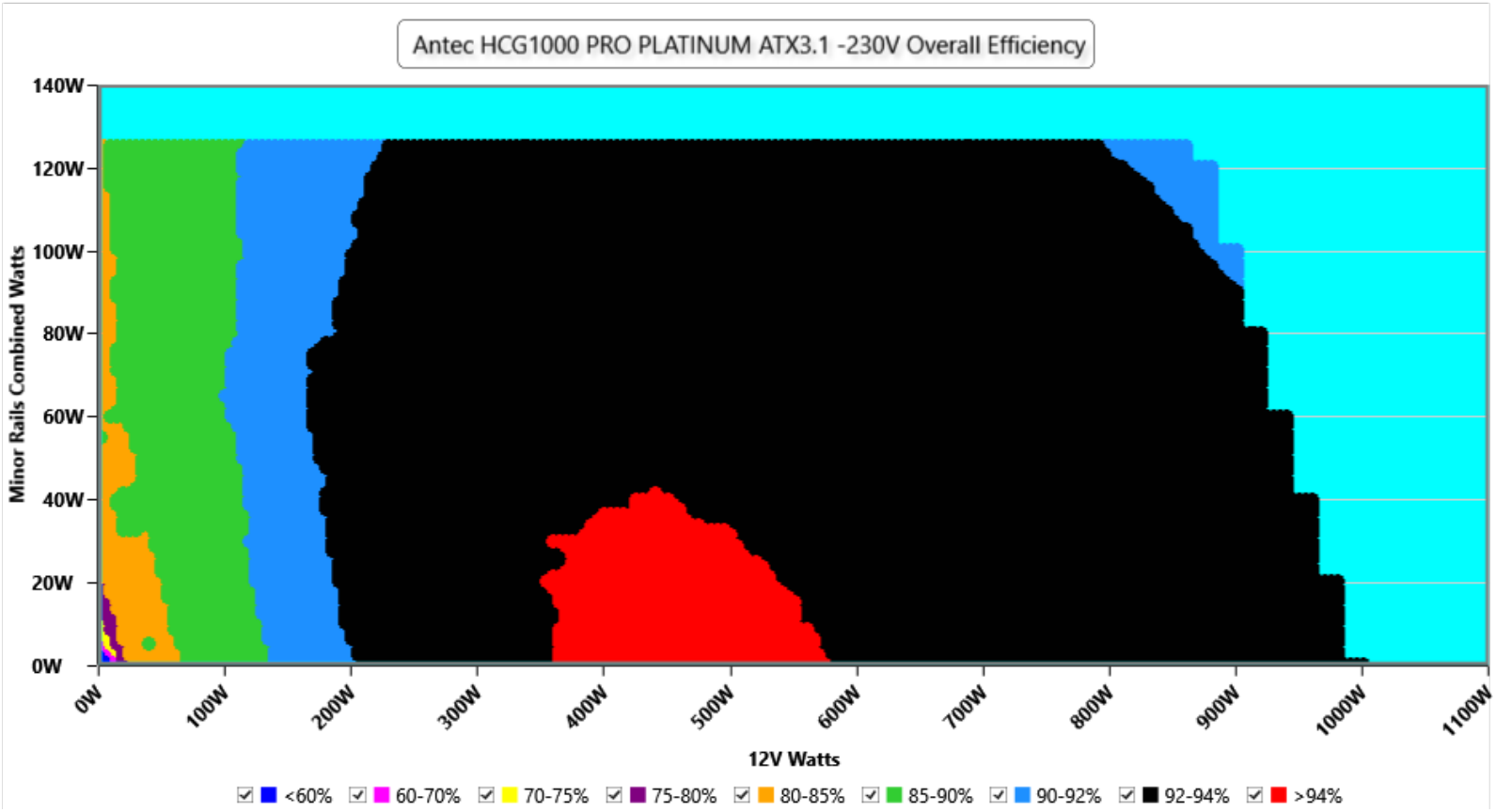
115V



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

230V

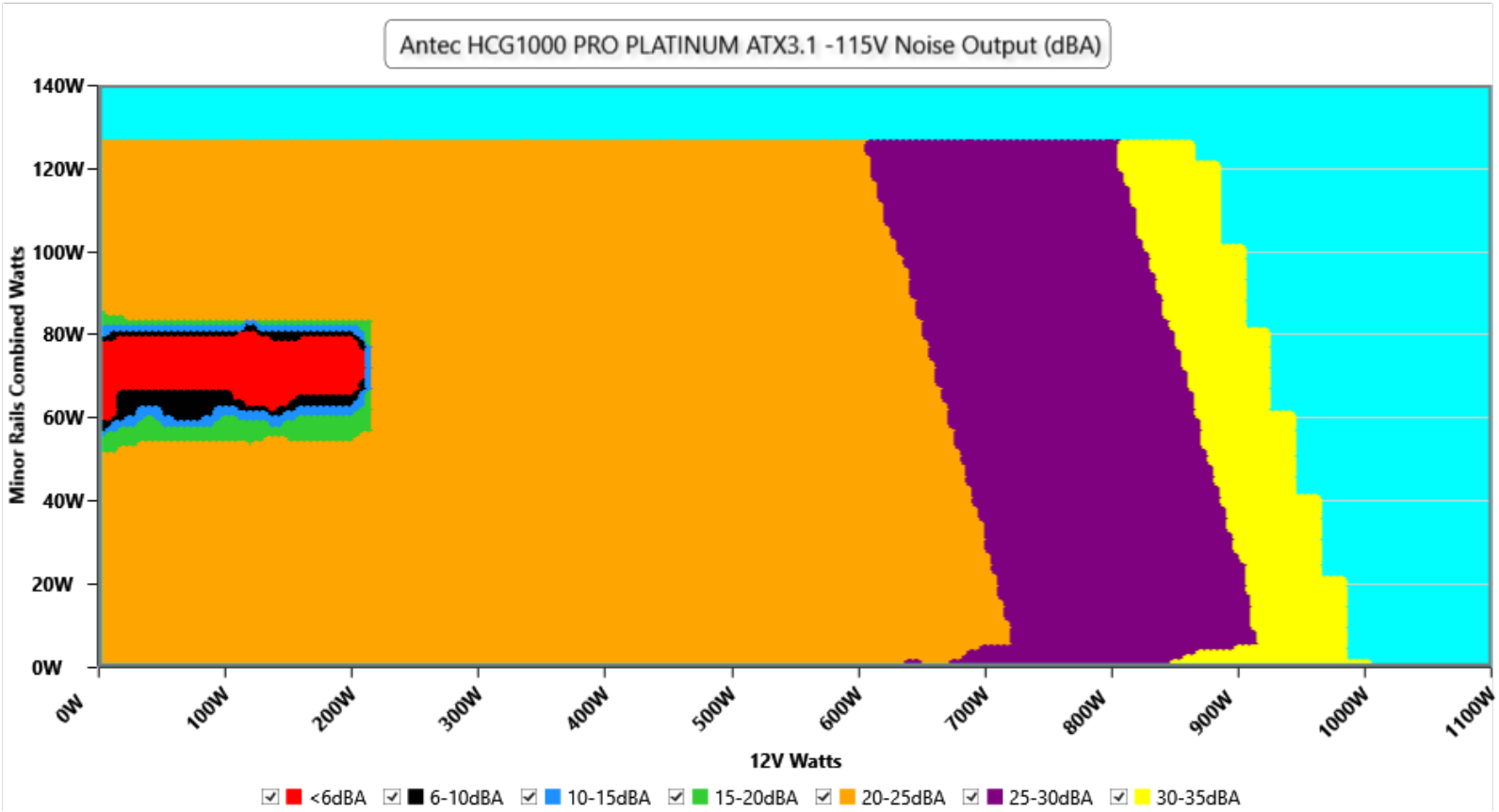


INFO

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Noise Graph

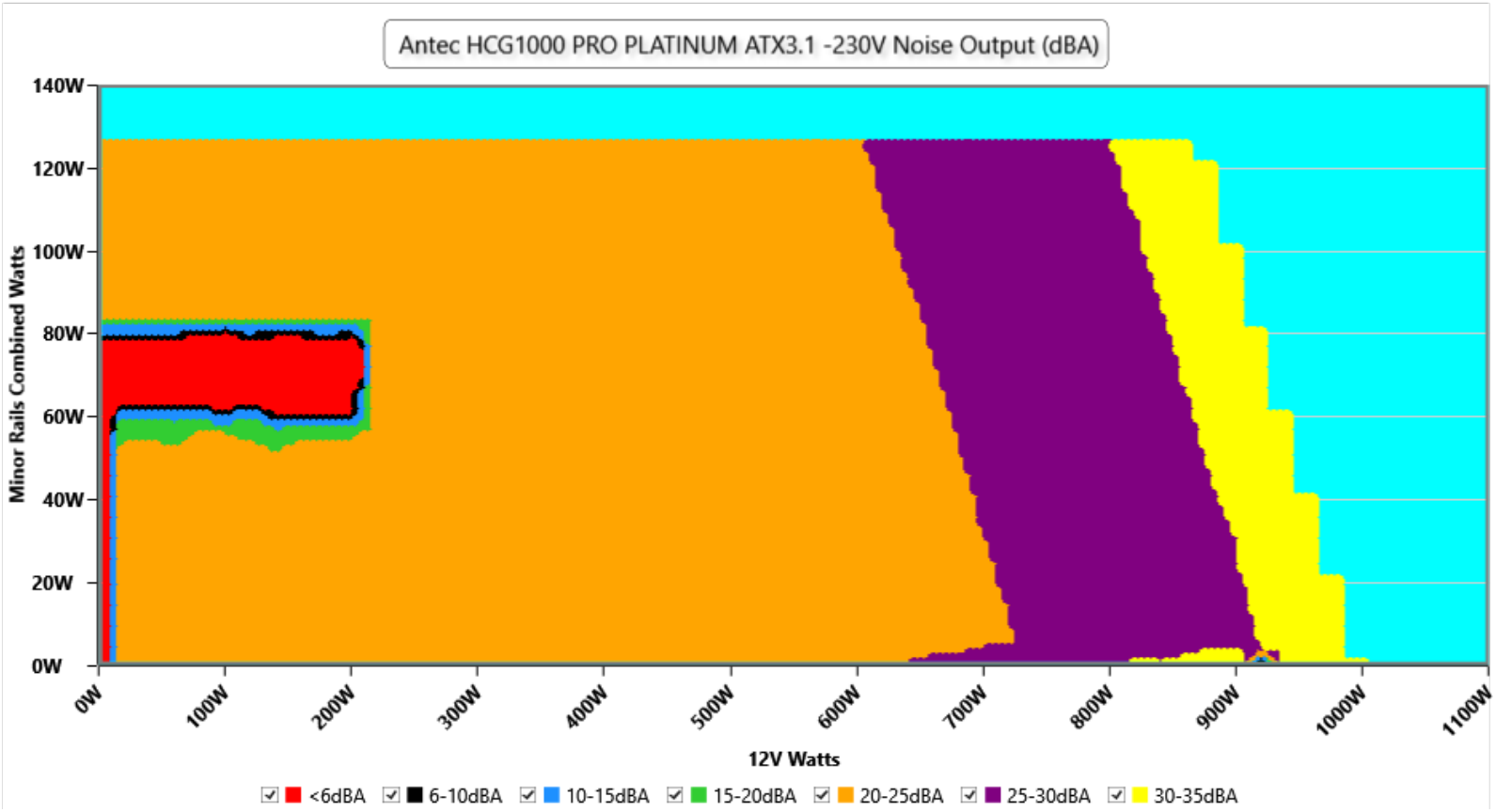
115V



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

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

Noise under high ambient temperature (indicative)

115V

Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	0 RPM · <6.0 dB(A) · 32.4 °C	0 RPM · <6.0 dB(A) · 46.1 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 34.2 °C	0 RPM · <6.0 dB(A) · 45.1 °C	fan off in both
50%	728 RPM · 20.3 dB(A) · 30.6 °C	743 RPM · 21.0 dB(A) · 42.2 °C	**+0.7 dB(A)**
100%	1016 RPM · 30.6 dB(A) · 30.3 °C	1120 RPM · 33.4 dB(A) · 45.4 °C	**+2.8 dB(A)**

230V

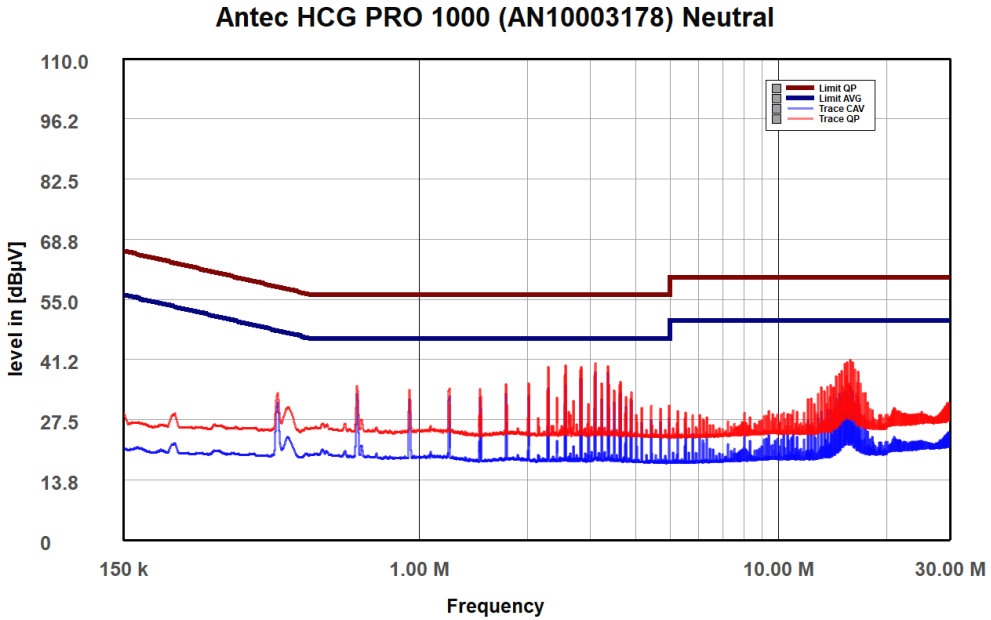
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	0 RPM · <6.0 dB(A) · 37.1 °C	0 RPM · <6.0 dB(A) · 42.8 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 38.4 °C	0 RPM · <6.0 dB(A) · 42.7 °C	fan off in both
50%	733 RPM · 20.5 dB(A) · 30.7 °C	745 RPM · 21.0 dB(A) · 42.4 °C	**+0.5 dB(A)**
100%	1018 RPM · 30.7 dB(A) · 30.8 °C	1111 RPM · 33.1 dB(A) · 45.7 °C	**+2.4 dB(A)**

INFO

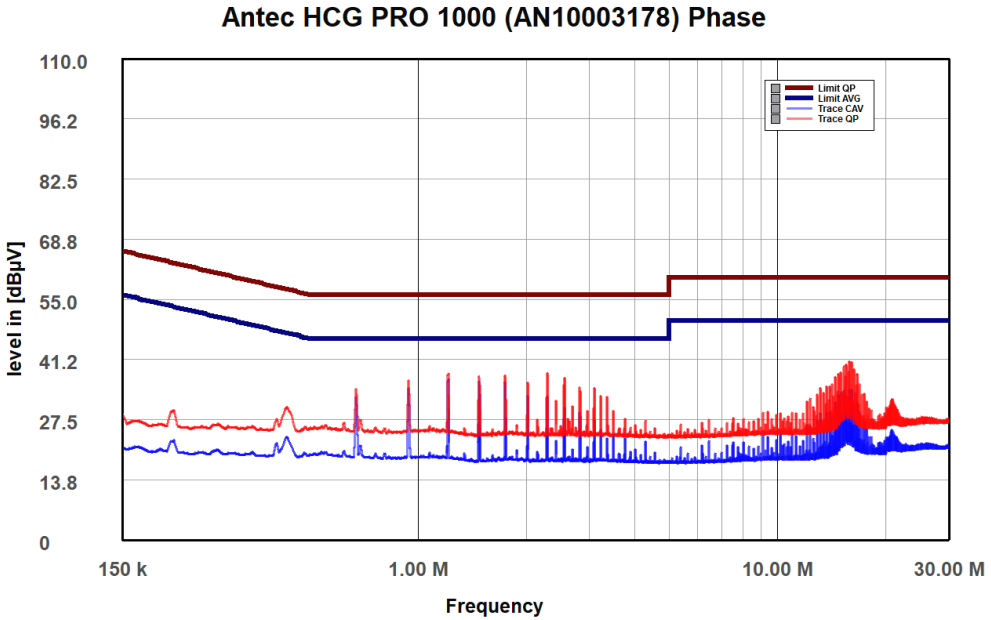
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative of how the fan behaves when it is hot. "<6.0" is the floor of our sound meter, with the fan stopped; with the fan stopped, the intake sensor can read higher than the chamber air.

Informational. Not part of the ETA or LAMBDA rating.

Conducted Emissions EN 55032 & CISPR 32



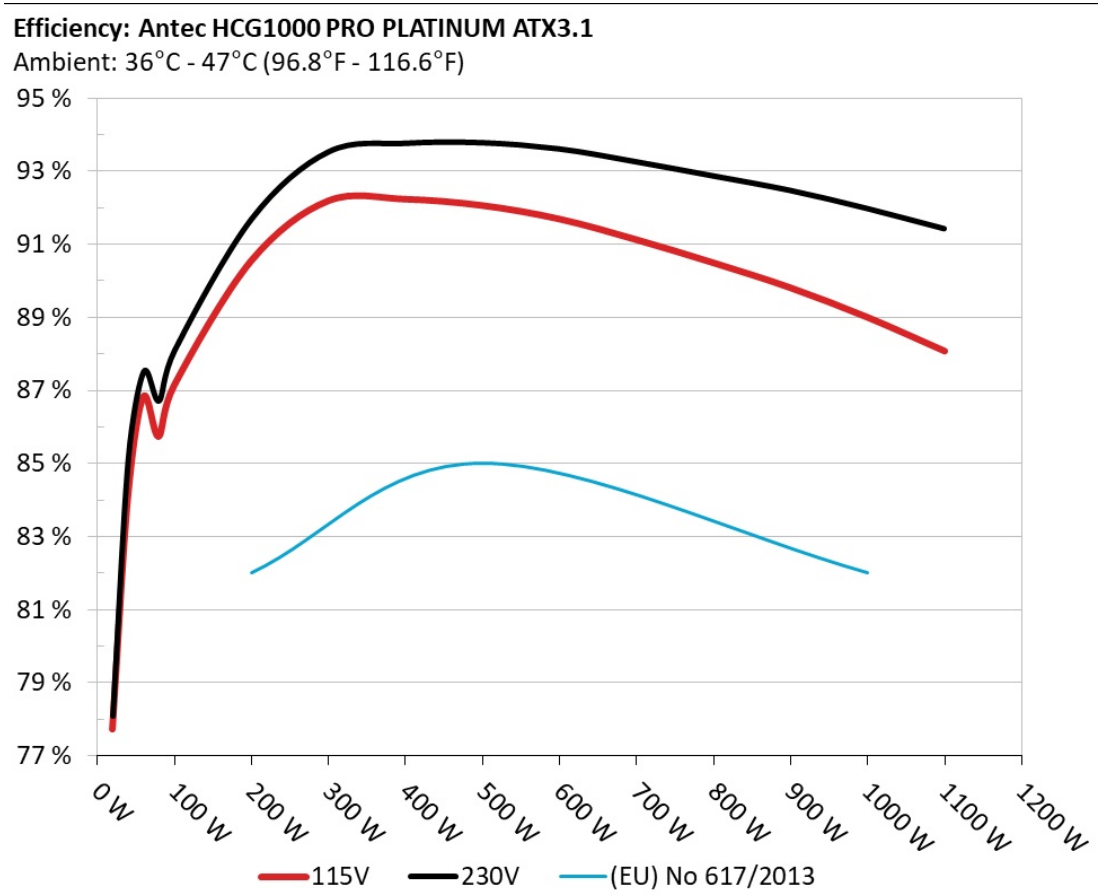
NEUTRAL



PHASE

Indicative Performance

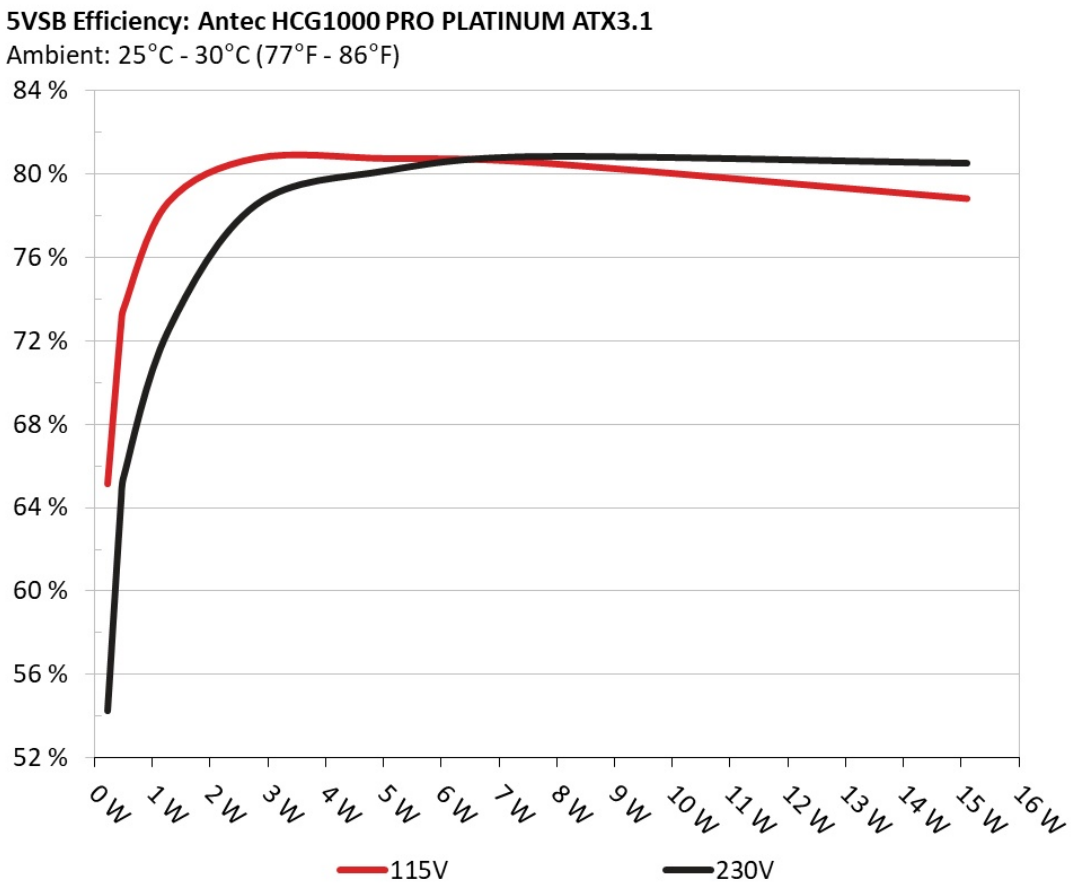
Efficiency under high ambient temperature



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



INFO

This graph depicts the efficiency levels of the 5VSB rail with 115V and 230V input

5VSB Efficiency (ERP LOT 3/6 & CEC)

115V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.229W	65.163%	0.036
	5.098V	0.351W		115.04V
2	**0.09A**	0.459W	72.713%	0.063
	5.097V	0.631W		115.04V
3	**0.55A**	2.798W	80.778%	0.244
	5.087V	3.463W		115.04V
4	**1A**	5.078W	80.761%	0.314
	5.078V	6.288W		115.04V
5	**1.5A**	7.602W	80.575%	0.352
	5.067V	9.435W		115.04V
6	**3A**	15.105W	78.84%	0.402
	5.036V	19.159W		115.03V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.229W	54.245%	0.013
	5.098V	0.423W		230V
2	**0.09A**	0.459W	64.233%	0.022
	5.097V	0.715W		230V
3	**0.55A**	2.798W	78.528%	0.101
	5.087V	3.564W		230V
4	**1A**	5.078W	80.171%	0.161
	5.078V	6.335W		230V
5	**1.5A**	7.601W	80.84%	0.209
	5.067V	9.403W		230V
6	**3A**	15.107W	80.52%	0.286
	5.036V	18.763W		230V

Protection Features

OCP (Normal @ 26.9°C)	12V: 92.20A (111.08%), 12.232V 5V: 34.8A (139.20%), 4.99V 3.3V: 34.7A (138.80%), 3.309V 5VSB: 6A (200.00%), 4.966V
OCP (Hot @ 45.0°C)	12V: 92.20A (111.08%), 12.256V 5V: 33.7A (134.80%), 4.985V 3.3V: 34.7A (138.80%), 3.308V 5VSB: 5.9A (196.67%), 4.966V
OPP (Normal @ 27.5°C)	1133.96W (113.40%)
OPP (Hot @ 43.5°C)	1124.96W (112.50%)
OTP	✓ (130°C @ 12V Heatsink)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓ -12V to Earth: ✓
PWR_OK	Proper Operation
UVP (Full Load @ 90V)	✓
UVP (No Damage @ 80V)	✓
Conducted Emissions EN55032 & CISPR 32	✓
NLO	✓
Fan Failure Protection	✗
SIP	Surge: MOV Inrush: NTC & Bypass Relay

Supplementary Tests (For Reference)

Typical 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%	**6.398A**	**1.993A**	**1.98A**	**0.986A**	100.001	87.142%	0	<6.0	46.05°C	0.941
	12.255V	5.017V	3.333V	5.073V	114.752				40.08°C	115V
20%	**13.794A**	**2.991A**	**2.972A**	**1.185A**	199.956	90.557%	0	<6.0	45.12°C	0.965
	12.256V	5.014V	3.331V	5.064V	220.807				40.97°C	114.97V
30%	**21.568A**	**3.491A**	**3.469A**	**1.385A**	300.015	92.202%	0	<6.0	42.87°C	0.974
	12.239V	5.013V	3.33V	5.056V	325.385				41.44°C	114.94V
40%	**29.294A**	**3.991A**	**3.966A**	**1.585A**	399.597	92.248%	747	21.1	41.67°C	0.979
	12.234V	5.012V	3.328V	5.047V	433.178				59.61°C	114.91V
50%	**36.692A**	**4.99A**	**4.961A**	**1.787A**	499.284	92.077%	743	21	42.15°C	0.98
	12.231V	5.011V	3.327V	5.038V	542.252				62.08°C	114.87V
60%	**44.150A**	**5.99A**	**5.956A**	**1.989A**	599.837	91.706%	738	20.6	42.63°C	0.983
	12.232V	5.009V	3.325V	5.03V	654.092				66.31°C	114.83V
70%	**51.529A**	**6.992A**	**6.953A**	**2.191A**	699.558	91.142%	798	23.3	43.43°C	0.986
	12.235V	5.007V	3.323V	5.021V	767.546				70.75°C	114.79V
80%	**58.967A**	**7.992A**	**7.95A**	**2.294A**	799.569	90.507%	884	26.5	43.61°C	0.988
	12.239V	5.004V	3.321V	5.014V	883.426				44.28°C	114.75V
90%	**66.725A**	**8.494A**	**8.435A**	**2.397A**	899.336	89.825%	970	29.2	44.65°C	0.99
	12.243V	5.002V	3.32V	5.007V	1001.208				45.5°C	114.72V
100%	**74.275A**	**8.997A**	**8.951A**	**3.007A**	999.354	89.017%	1120	33.4	45.42°C	0.991
	12.248V	5.001V	3.318V	4.989V	1122.663				46.81°C	114.68V
110%	**81.751A**	**10.002A**	**10.041A**	**3.01A**	1099.975	88.086%	1367	38.5	47.02°C	0.993
	12.253V	4.998V	3.316V	4.984V	1248.755				48°C	114.63V
CL1	**0.114A**	**15.065A**	**14.953A**	**0A**	126.299	83.552%	768	22	40.74°C	0.953
	12.287V	4.997V	3.317V	5.088V	151.164				41.68°C	114.99V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL2	**0.114A**	**24.996A**	**0A**	**0A**	126.245	81.917%	951	28.6	40.8°C	0.952
	12.279V	4.995V	3.327V	5.09V	154.112				41.45°C	114.99V
CL3	**0.113A**	**0A**	**24.878A**	**0A**	83.902	76.151%	951	28.6	41.51°C	0.941
	12.272V	5.009V	3.316V	5.09V	110.172				42.02°C	115.01V
CL4	**81.733A**	**0A**	**0A**	**0A**	999.936	89.652%	1055	31.6	45.92°C	0.99
	12.234V	5.013V	3.33V	5.06V	1115.347				57.46°C	114.68V

The results above are not used in the certification process

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%	**6.398A**	**1.993A**	**1.98A**	**0.986A**	100.007	88.084%	0	<6.0	42.78°C	0.845
	12.255V	5.017V	3.333V	5.073V	113.535				40.45°C	229.98V
20%	**13.795A**	**2.992A**	**2.972A**	**1.185A**	199.963	91.684%	0	<6.0	42.74°C	0.913
	12.255V	5.014V	3.331V	5.064V	218.1				40.81°C	229.97V
30%	**21.570A**	**3.492A**	**3.469A**	**1.385A**	300.024	93.526%	0	<6.0	43.21°C	0.94
	12.238V	5.013V	3.33V	5.056V	320.796				41.41°C	229.95V
40%	**29.298A**	**3.991A**	**3.967A**	**1.585A**	399.62	93.76%	749	21.3	41.74°C	0.954
	12.233V	5.012V	3.328V	5.047V	426.219				48.05°C	229.93V
50%	**36.697A**	**4.99A**	**4.961A**	**1.787A**	499.308	93.776%	745	21	42.43°C	0.962
	12.230V	5.011V	3.326V	5.038V	532.446				48.35°C	229.92V
60%	**44.155A**	**5.991A**	**5.956A**	**1.989A**	599.856	93.607%	740	20.7	42.81°C	0.968
	12.231V	5.009V	3.325V	5.029V	640.832				49.33°C	229.9V
70%	**51.536A**	**6.992A**	**6.953A**	**2.191A**	699.577	93.256%	800	23.3	43.37°C	0.972
	12.233V	5.006V	3.323V	5.02V	750.168				50.42°C	229.88V
80%	**58.975A**	**7.992A**	**7.95A**	**2.294A**	799.585	92.869%	886	26.6	43.6°C	0.975
	12.237V	5.004V	3.321V	5.014V	860.985				51.41°C	229.87V
90%	**66.729A**	**8.495A**	**8.435A**	**2.397A**	899.348	92.473%	969	29.2	44.85°C	0.977
	12.242V	5.002V	3.32V	5.007V	972.537				52.73°C	229.85V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	**74.283A**	**8.997A**	**8.951A**	**3.007A**	999.361	91.979%	1111	33.1	45.72°C	0.979
	12.246V	5V	3.318V	4.989V	1086.513				53.74°C	229.83V
110%	**81.761A**	**10.002A**	**10.041A**	**3.01A**	1099.973	91.425%	1642	42.8	47.26°C	0.981
	12.251V	4.998V	3.316V	4.984V	1203.154				55.64°C	229.81V
CL1	**0.114A**	**15.066A**	**14.954A**	**0A**	126.299	84.378%	767	21.9	40.73°C	0.877
	12.287V	4.997V	3.317V	5.088V	149.683				49.36°C	229.98V
CL2	**0.114A**	**24.997A**	**0A**	**0A**	126.246	82.726%	950	28.6	41.02°C	0.879
	12.279V	4.994V	3.327V	5.09V	152.606				47.08°C	229.98V
CL3	**0.113A**	**0A**	**24.878A**	**0A**	83.901	76.897%	950	28.6	41.51°C	0.84
	12.271V	5.009V	3.316V	5.09V	109.115				46.53°C	229.98V
CL4	**81.738A**	**0A**	**0A**	**0A**	999.935	92.52%	1056	31.7	45.76°C	0.979
	12.233V	5.013V	3.33V	5.06V	1080.772				53.43°C	229.83V

The results above are not used in the certification process

Light 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	**1.224A**	**0.498A**	**0.495A**	**0.196A**	20	77.729%	0	<6.0	37.74°C	0.833
	12.134V	5.022V	3.336V	5.094V	25.731				36.45°C	115.03V
40W	**2.694A**	**0.697A**	**0.693A**	**0.295A**	40	84.079%	0	<6.0	41.36°C	0.896
	12.136V	5.021V	3.335V	5.091V	47.575				37.02°C	115.03V
60W	**4.160A**	**0.896A**	**0.891A**	**0.393A**	60	86.831%	0	<6.0	41.9°C	0.914
	12.147V	5.02V	3.335V	5.088V	69.1				38.22°C	115.02V
80W	**5.576A**	**1.096A**	**1.089A**	**0.492A**	79.946	85.748%	0	<6.0	44.57°C	0.929
	12.253V	5.019V	3.334V	5.085V	93.238				39.45°C	115.01V

The results above are not used in the certification process

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	**1.224A**	**0.498A**	**0.495A**	**0.196A**	20.004	78.092%	0	<6.0	38.55°C	0.51
	12.127V	5.023V	3.336V	5.094V	25.617				36.6°C	230V
40W	**2.695A**	**0.697A**	**0.693A**	**0.295A**	40.003	85.118%	0	<6.0	40.88°C	0.678
	12.131V	5.022V	3.336V	5.091V	46.992				37.45°C	230V
60W	**4.162A**	**0.896A**	**0.891A**	**0.393A**	60.002	87.511%	0	<6.0	42.1°C	0.762
	12.143V	5.021V	3.335V	5.088V	68.561				38.71°C	229.99V
80W	**5.578A**	**1.096A**	**1.089A**	**0.492A**	79.953	86.715%	0	<6.0	42.34°C	0.815
	12.250V	5.019V	3.334V	5.085V	92.199				39°C	229.99V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	18.06mV	17.73mV	18.06mV	19.39mV	Pass
20% Load	18.11mV	18.75mV	18.01mV	18.21mV	Pass
30% Load	38.01mV	17.37mV	18.06mV	17.65mV	Pass
40% Load	32.44mV	18.80mV	18.57mV	21.23mV	Pass
50% Load	31.67mV	18.80mV	18.88mV	23.48mV	Pass
60% Load	31.72mV	19.41mV	18.82mV	22.66mV	Pass
70% Load	30.85mV	19.57mV	19.85mV	22.46mV	Pass
80% Load	32.13mV	21.41mV	21.23mV	22.82mV	Pass
90% Load	30.49mV	21.51mV	21.74mV	23.37mV	Pass
100% Load	29.35mV	21.61mV	22.56mV	23.86mV	Pass
110% Load	29.07mV	21.93mV	22.99mV	24.81mV	Pass
Crossload1	16.78mV	17.78mV	18.62mV	23.08mV	Pass
Crossload2	18.21mV	22.84mV	20.82mV	24.25mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	19.03mV	20.18mV	25.63mV	24.09mV	Pass
Crossload4	31.05mV	22.14mV	23.21mV	23.52mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	16.37mV	17.11mV	17.34mV	16.73mV	Pass
20% Load	18.16mV	17.07mV	17.04mV	16.32mV	Pass
30% Load	38.73mV	16.66mV	16.73mV	15.45mV	Pass
40% Load	33.10mV	17.42mV	18.11mV	19.18mV	Pass
50% Load	31.87mV	17.88mV	18.67mV	20.61mV	Pass
60% Load	30.95mV	18.39mV	18.77mV	19.85mV	Pass
70% Load	31.93mV	19.31mV	19.69mV	20.51mV	Pass
80% Load	31.57mV	20.13mV	19.64mV	22.61mV	Pass
90% Load	31.82mV	21.25mV	20.97mV	21.59mV	Pass
100% Load	29.69mV	20.43mV	21.20mV	22.10mV	Pass
110% Load	30.79mV	20.58mV	21.68mV	22.96mV	Pass
Crossload1	17.21mV	16.99mV	16.68mV	19.95mV	Pass
Crossload2	18.78mV	21.35mV	20.77mV	21.95mV	Pass
Crossload3	18.42mV	19.41mV	23.33mV	21.74mV	Pass
Crossload4	29.57mV	19.20mV	21.50mV	22.63mV	Pass

The results above are not used in the certification process

Antec HCG1000 PRO PLATINUM ATX3.1



Top side



Power specifications label



Fan



PSU

All data and graphs included in this test report can be used by any individual on the following conditions:

› It should be mentioned that the test results are provided by Cybenetics

› The link to the original test results document should be provided in any case

Cybenetics runs voluntary certification programs for power supplies - ETA for efficiency, LAMBDA for noise and SAFE for safety and correct operation - and for cooling products, with DELTA for chassis soundproofing and PHI for fan airflow and static pressure. THETA rates cooler performance on AMD AM5 and Intel LGA1851 outside ISO 17065 and accreditation scope

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