GIGABYTE™

Gigabyte GP-AE1000PM PG5 / PG5 ICE

Serial Number -

Lab ID GB10003053

Certification ID 253053

Test Result Report ID: 25PS3053A

Certificate Issue Date: Dec 8, 2025

115V 230V

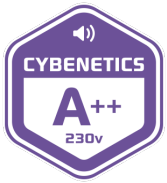
Scheme: ETA-EMI PSU





115V 230V





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	Gigabyte
Model	GP-AE1000PM PG5 / PG5 ICE
OEM/ODM	XIAMEN CASTEC ELECTRONIC INDUSTRY
Serial Number	-
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100 - 240
Rated Current (Arms)	6.5 - 15

Rated Frequency (Hz)	50 - 60
Rated Power (W)	1000
Operating Temperature (Continuous Full Load) (°C)	0 - 50
Type	ATX12V
Cable Design	Fully Modular
Warranty	10 years
Cybenetics Measurements	
Dimensions (W x H x D)	150 x 85 x 140mm
Weight	1.77 kg (3.90 lbs)
Cooling	120mm Fluid Dynamic Bearing Fan (HA1225M12F-Z)
Semi-Passive Operation	✓
Cybenetics Testing Information	
Lab ID	GB10003053
Date of receipt	Nov 7, 2025
Testing Date	Nov 29, 2025
Report Issued Date	Dec 8, 2025
DUT Notes	The results apply to the ICE models too, as they are identical.
Engineer Name	Okeke Ugochukwu Onyedikachukwu
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 (645mm)	1	1	16AWG	Tinned Copper
4+4 pin EPS12V (700mm)	2	2	16AWG	Tinned Copper
6+2 pin PCIe (750mm)	2	2	16AWG	Tinned Copper
6+2 pin PCIe (650mm+150mm)	2	4	16AWG	Tinned Copper
12+4 pin PCIe (700mm) (600W)	1	1	16-26AWG	Tinned Copper
SATA (600mm+150mm+150mm+150mm)	2	8	18AWG	Tinned Copper

4-pin Molex (500mm+145mm+145mm+150mm)	1	4	18AWG	Tinned Copper
AC Power Cord (1370mm) - C13 coupler	1	1	18AWG	-

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	3	0.3
	Watts	125		999.6	15	3.6
Total Max. Power (W)		1000				

Parts Description

General Data	
Manufacturer (OEM)	Xiamen Castec Electronic Industry
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	NTC Thermistor NTC 5D-15 (5 Ohm @ 25°C) & Relay
Bridge Rectifier	2x GBU1506 (600V, 15A @ 100°C)
APFC MOSFETs	2x Infineon IPP60R099P7 (600V, 31A @ 25°C, Rds(on): 0.099Ohm)
APFC Boost Diode	STMicroelectronics STPSC10H065 (650V, 10A @ 135°C)
Bulk Cap(s)	Nippon Chemi-Con (400V, 1000uF, 2000h @ 105°C,KMW)
Main Switchers	4x Infineon IPP60R160P7 (600V, 20A @ 25°C, Rds(on): 0.160Ohm)

APFC Controller	Champion CM6500UNX & Champion CM03X (reducing no load consumption)
Resonant Controller	Champion CU6901VACN
Topology	Primary side: APFC, Full-Bridge & LLC Resonant Converter Secondary side: [12V] Synchronous Rectification & [Minor Rails] DC-DC converters
Secondary Side	
+12V MOSFETs	6x Nexperia PSMN1R4-40YLD (40V, 240A @ 25°C, Rds(on): 1.4mOhm)
5V & 3.3V	DC-DC Converters: no info PWM Controller(s): 2x UPI-Semi uP9303
Filtering Capacitors	Electrolytic: 3x Nippon Chemi-Con (@ 105°C, W) Nippon Chemi-Con (6-10,000h @ 105°C, KY) 4x Rubycon (4-10,000 @ 105°C, YXJ) Rubycon (6-10,000 @ 105°C, ZLH) Rubycon (4-10,000 @ 105°C, YXF) Polymer: 28x Nippon Chemi-con, 7x FPCAP
Supervisor IC	Weltrend WT7502R (OVP, UVP, OCP, PG)
Fan Model	Hong Hua HA1225M12F-Z (120mm, 12V, 0.45A, Fluid Dynamic Bearing Fan)
5VSB Circuit	
Rectifier	Rectron Semiconductor ES1J (600V, 1A)
Standby PWM Controller	Dongke DK025G (650V, 0.8Ohm)

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)	90.506%
Average Noise Output (>1450 Load Combinations)	12.74dBA
Average PF (>1450 Load Combinations)	0.984
Efficiency With 10W (≤500W) or 2% (>500W) Load	63.716%
Standby Power Consumption	0.0256W
Non-Accredited	
12V Ripple (Full Load)	20.97mV
5V Ripple (Full Load)	20.32mV
3.3V Ripple (Full Load)	14.30mV
5VSB Ripple (Full Load)	25.65mV
12V Load Regulation	0.19%
5V Load Regulation	0.64%
3.3V Load Regulation	1.06%
5VSB Load Regulation	1.93%
Inrush Current	32.900A

230V

Accredited	
Average Efficiency (>1450 load combinations)	92.485%
Average Noise Output (>1450 Load Combinations)	11.14dBA
Average PF (>1450 Load Combinations)	0.954
Efficiency With 10W (≤500W) or 2% (>500W) Load	63.591%
Standby Power Consumption	0.0555W
Non-Accredited	
12V Ripple (Full Load)	22.95mV
5V Ripple (Full Load)	22.02mV
3.3V Ripple (Full Load)	14.64mV

5VSB Ripple (Full Load)		26.38mV
12V Load Regulation		0.24%
5V Load Regulation		0.62%
3.3V Load Regulation		1.07%
5VSB Load Regulation		1.91%
Inrush Current		63.140A
12V Transient Response (200%)		11.42V
5V Transient Response (200%)		4.943V
3.3V Transient Response (200%)		3.218V
5VSB Transient Response (200%)		4.969V
Hold-Up Time & PWR_OK Signal		17.60ms
AC Loss to PWR_OK Hold Up Time		16.40ms
PWR_OK Inactive to DC Loss Delay		1.20ms
PSU Timings: T1 (20% / 100%)	53.0ms	51.0ms
PSU Timings: T3 (20% / 100%)	129.0ms	128.0ms
12V OCP (29.8°C / 45.1°C)	103.20A (123.89%), 12.046V	103.20A (123.89%), 12.055V
5V OCP (29.8°C / 45.1°C)	32.86A (131.44%), 4.773V	31.5A (126.00%), 4.807V
3.3V OCP (29.8°C / 45.1°C)	31A (124.00%), 3.289V	30.4A (121.60%), 3.285V
5VSB OCP (29.8°C / 45.1°C)	3.7A (123.33%), 5.002V	3.8A (126.67%), 4.998V
OPP (30.93°C / 42.47°C)	122.51%	122.51%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	17.6
AC Loss to PWR_OK Hold Up Time (ms)	16.4
PWR_OK Inactive to DC Loss Delay (ms)	1.2

Vampire Power

Tables

115V

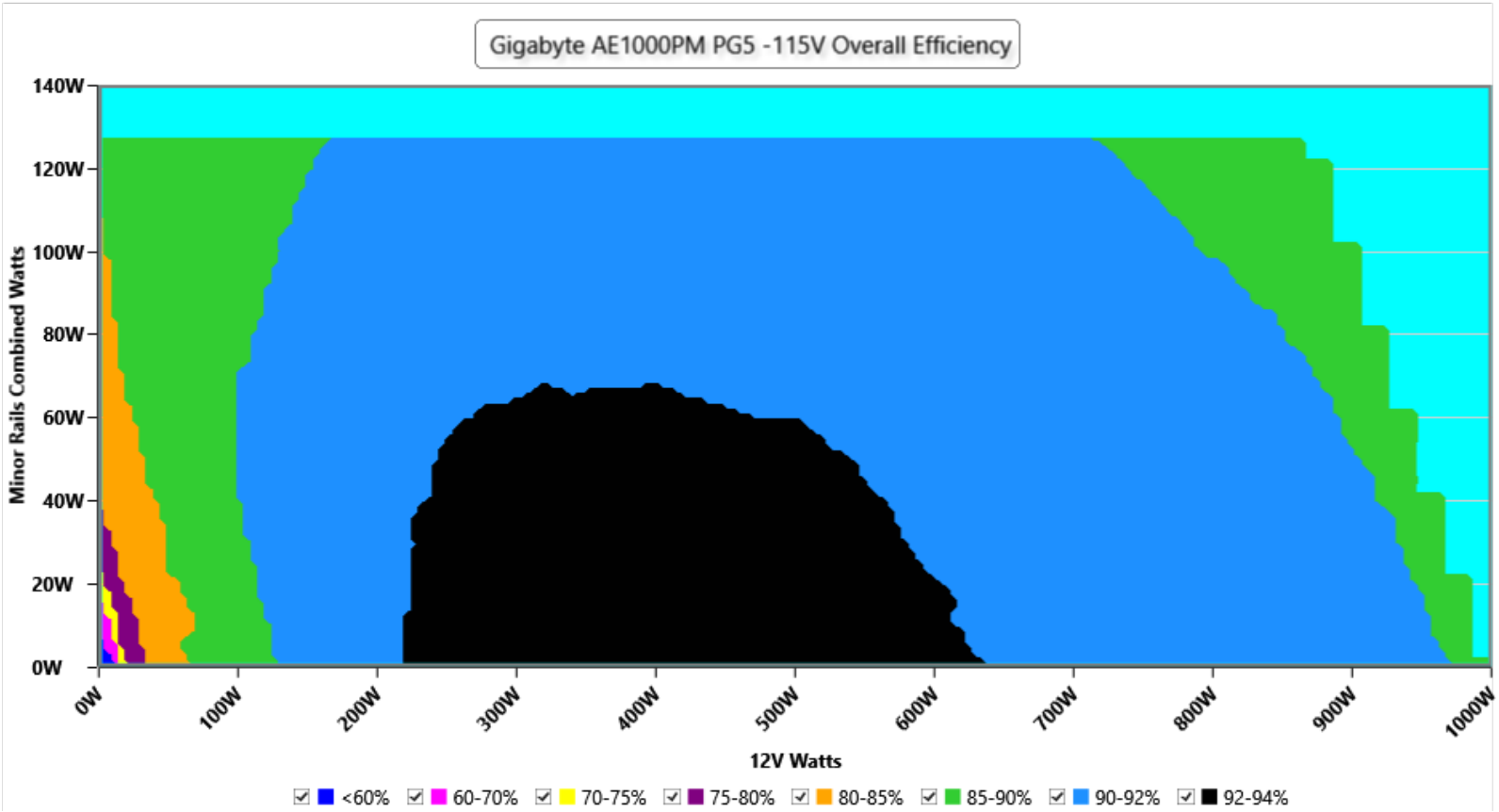
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.02 V	115.00 V	113.85 V	115.12 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.94 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.417	1.490	PASS
Mains Voltage THD:	0.13 %	0.11 %	N/A	0.16 %	2.00 %	PASS
Real Power:	0.026 W	-0.008 W	N/A	0.057 W	N/A	N/A
Apparent Power:	8.944 W	8.922 W	N/A	8.972 W	N/A	N/A
Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A

230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.03 V	230.03 V	227.70 V	230.07 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:	0.056 W	0.015 W	N/A	0.112 W	N/A	N/A
Apparent Power:	29.117 W	29.081 W	N/A	29.151 W	N/A	N/A
Power Factor:	0.002	N/A	N/A	N/A	N/A	N/A

Efficiency Graph

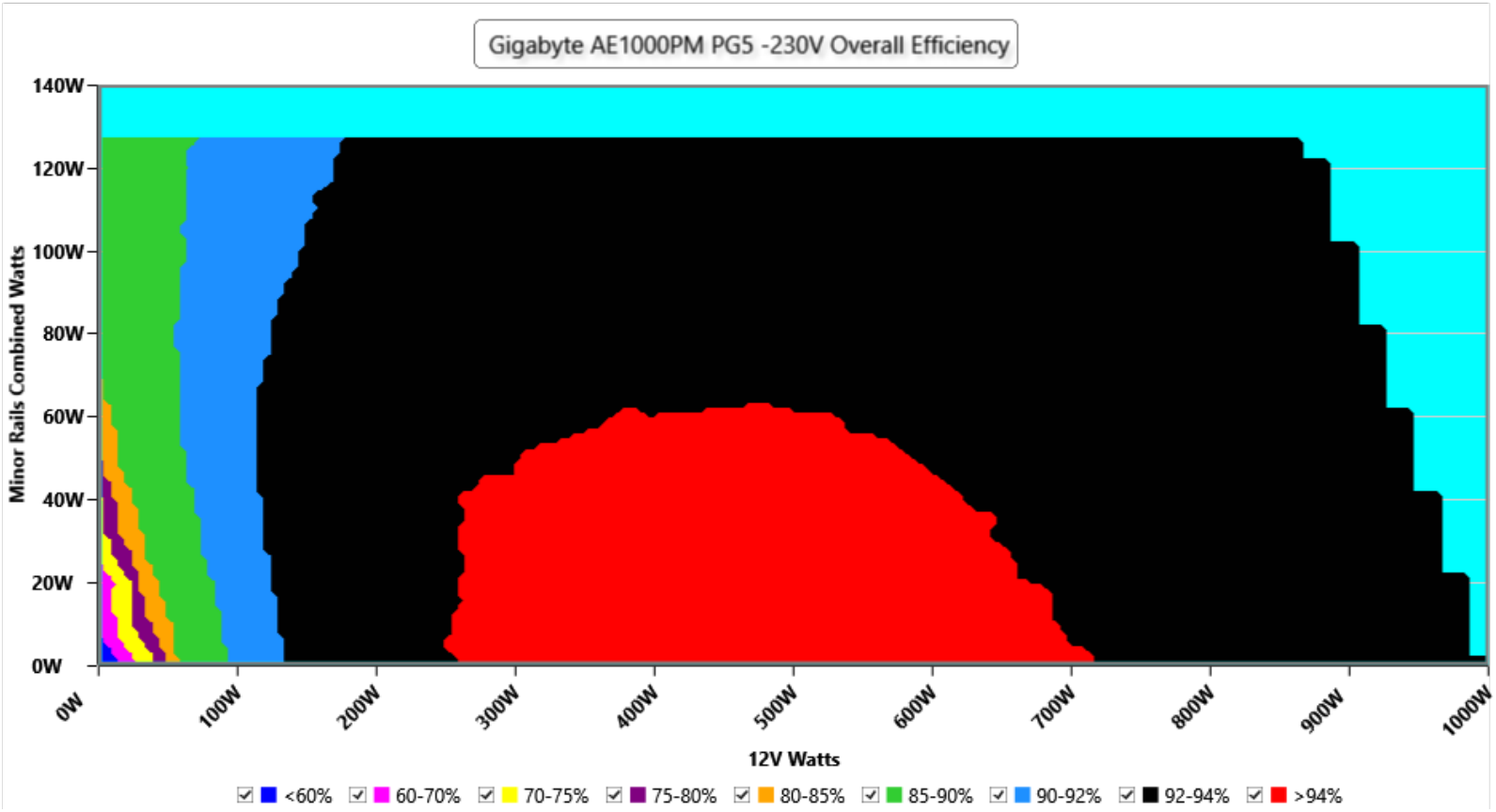
115V



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

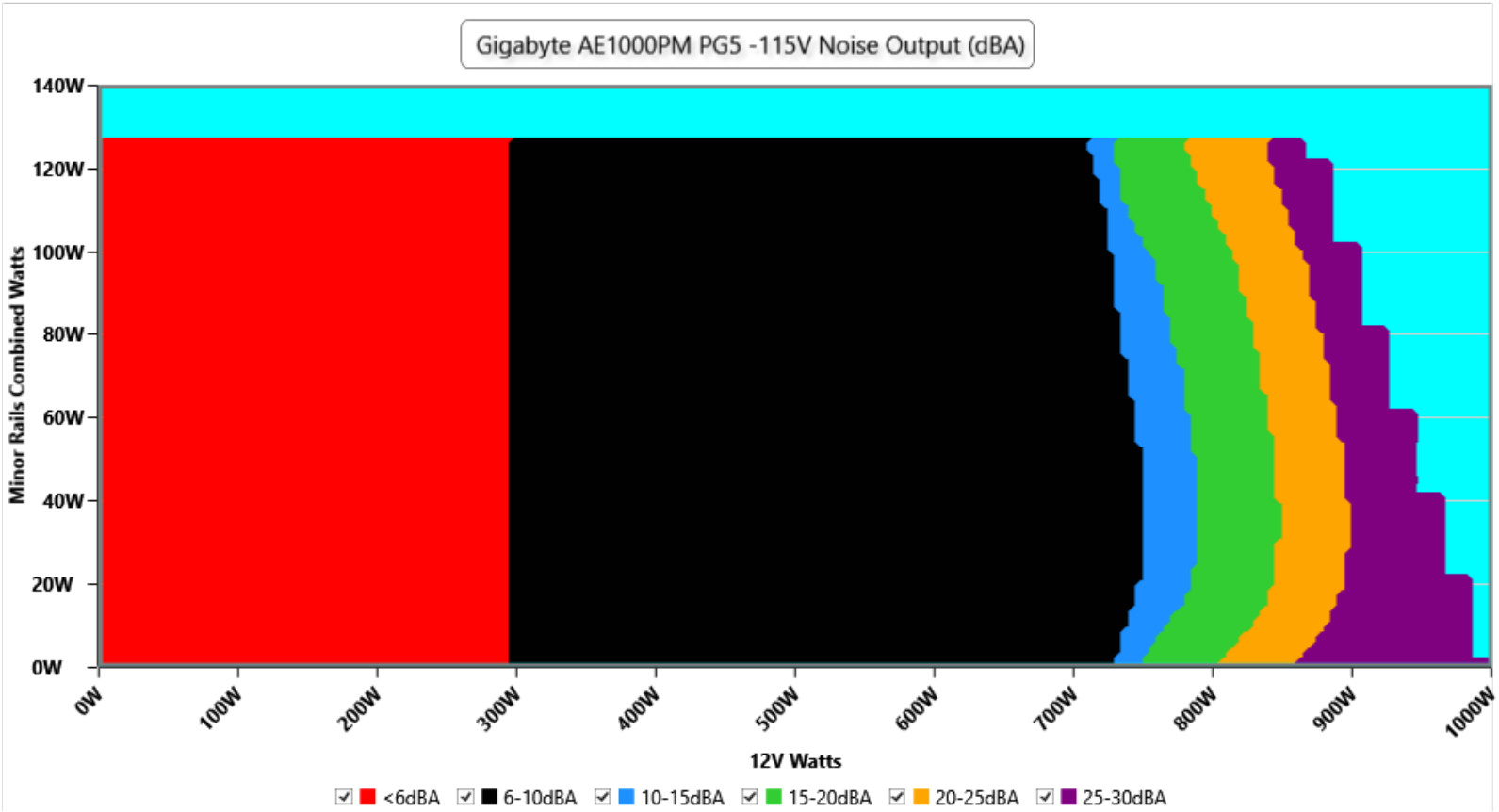


INFO

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Noise Graph

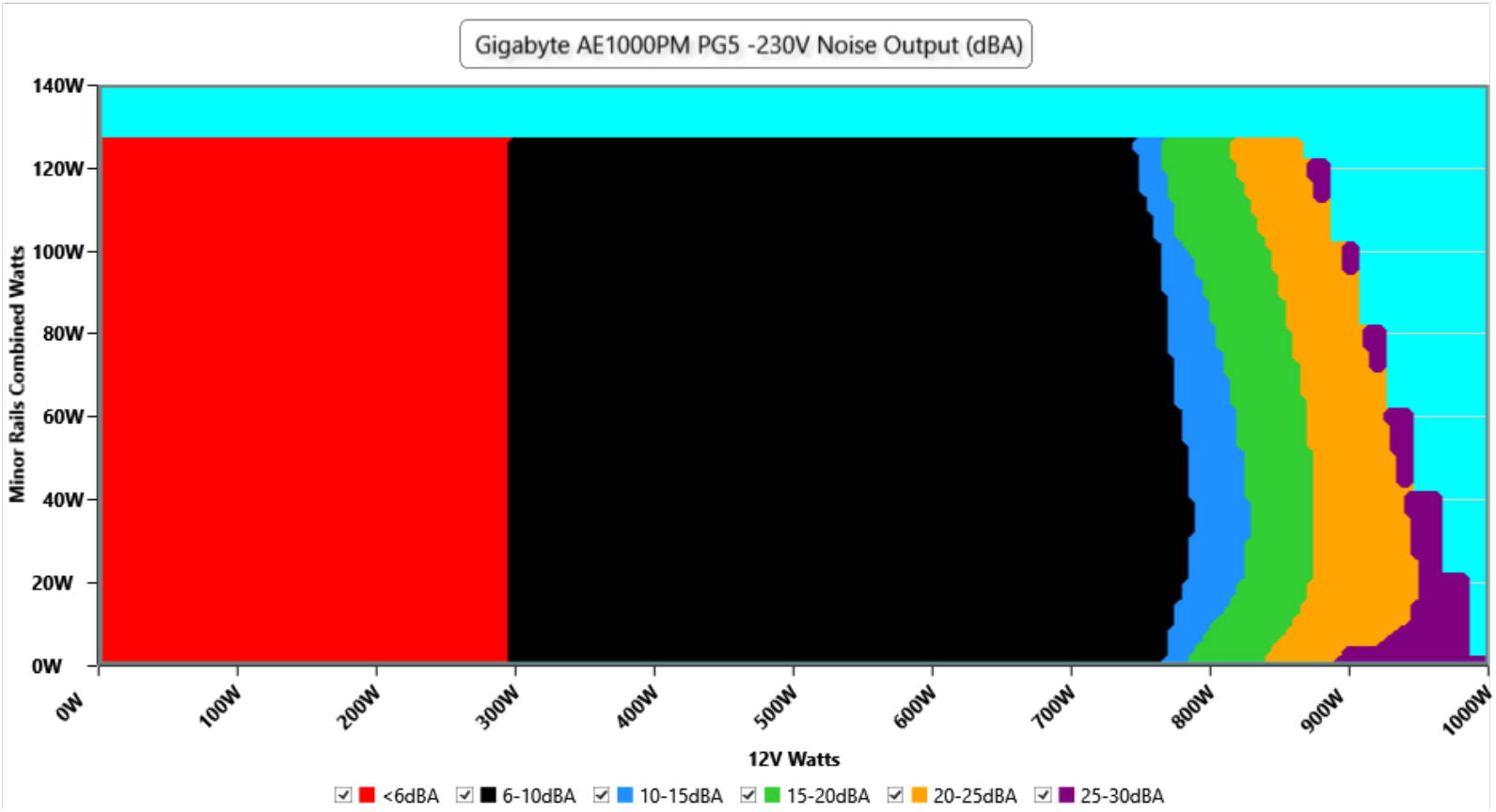
115V



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) · 32.7 °C	0 RPM · <6.0 dB(A) · 45.5 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 34.1 °C	0 RPM · <6.0 dB(A) · 47.1 °C	fan off in both
50%	1186 RPM · 26.4 dB(A) · 30.4 °C	591 RPM · <6.0 dB(A) · 42.5 °C	-
100%	1780 RPM · 39.0 dB(A) · 30.2 °C	1606 RPM · 35.7 dB(A) · 45.3 °C	**-3.3 dB(A)**

230V

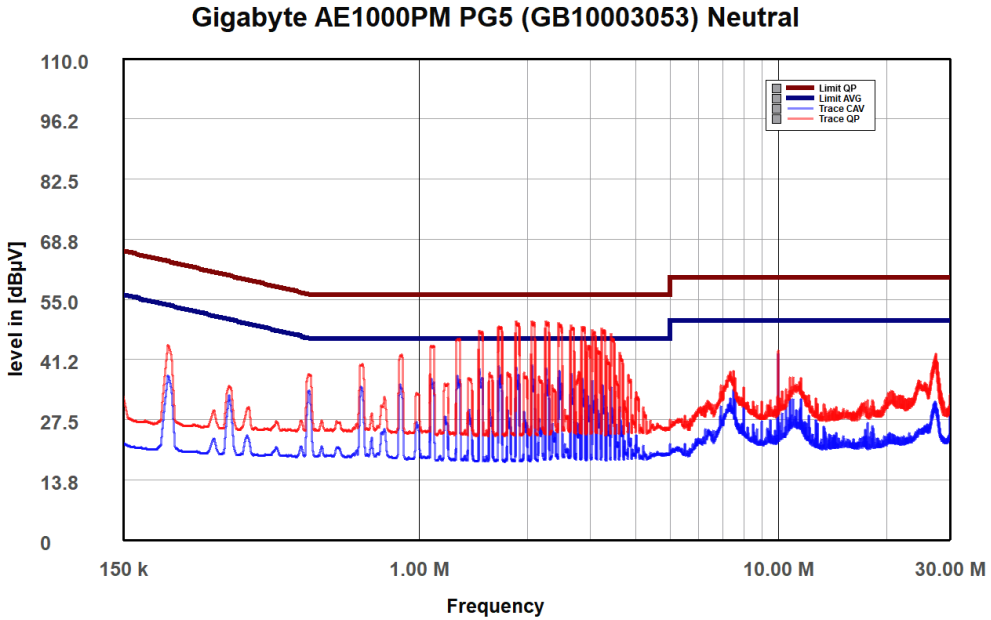
Load	Normal ambient fan · noise · intake	High ambient fan · noise · intake	Noise change
10%	0 RPM · <6.0 dB(A) · 32.0 °C	0 RPM · <6.0 dB(A) · 49.7 °C	fan off in both
20%	0 RPM · <6.0 dB(A) · 32.9 °C	0 RPM · <6.0 dB(A) · 50.3 °C	fan off in both
50%	568 RPM · 7.4 dB(A) · 30.2 °C	596 RPM · 6.3 dB(A) · 42.4 °C	**-1.1 dB(A)**
100%	586 RPM · 6.5 dB(A) · 30.3 °C	1618 RPM · 35.8 dB(A) · 45.6 °C	**+29.3 dB(A)**

INFO

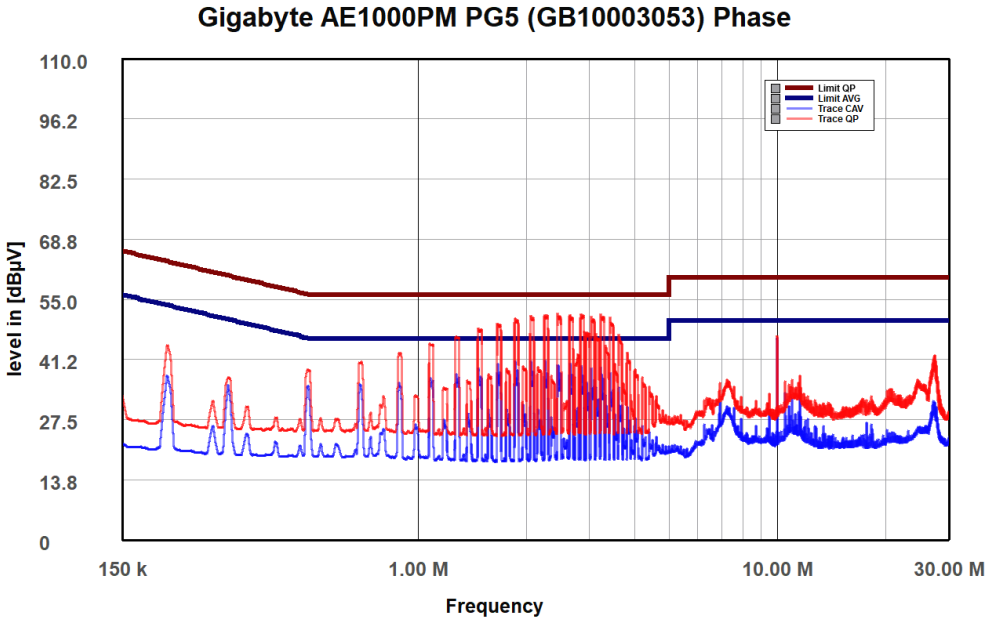
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative 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



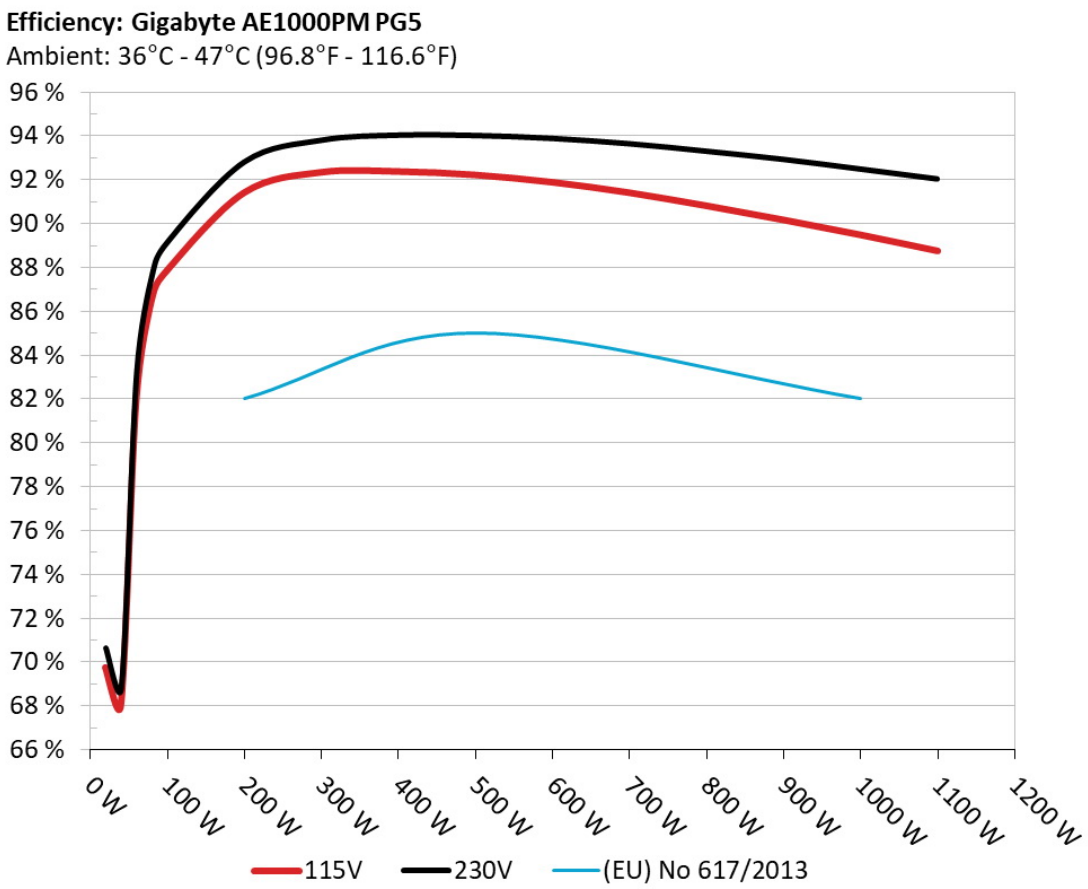
NEUTRAL



PHASE

Indicative Performance

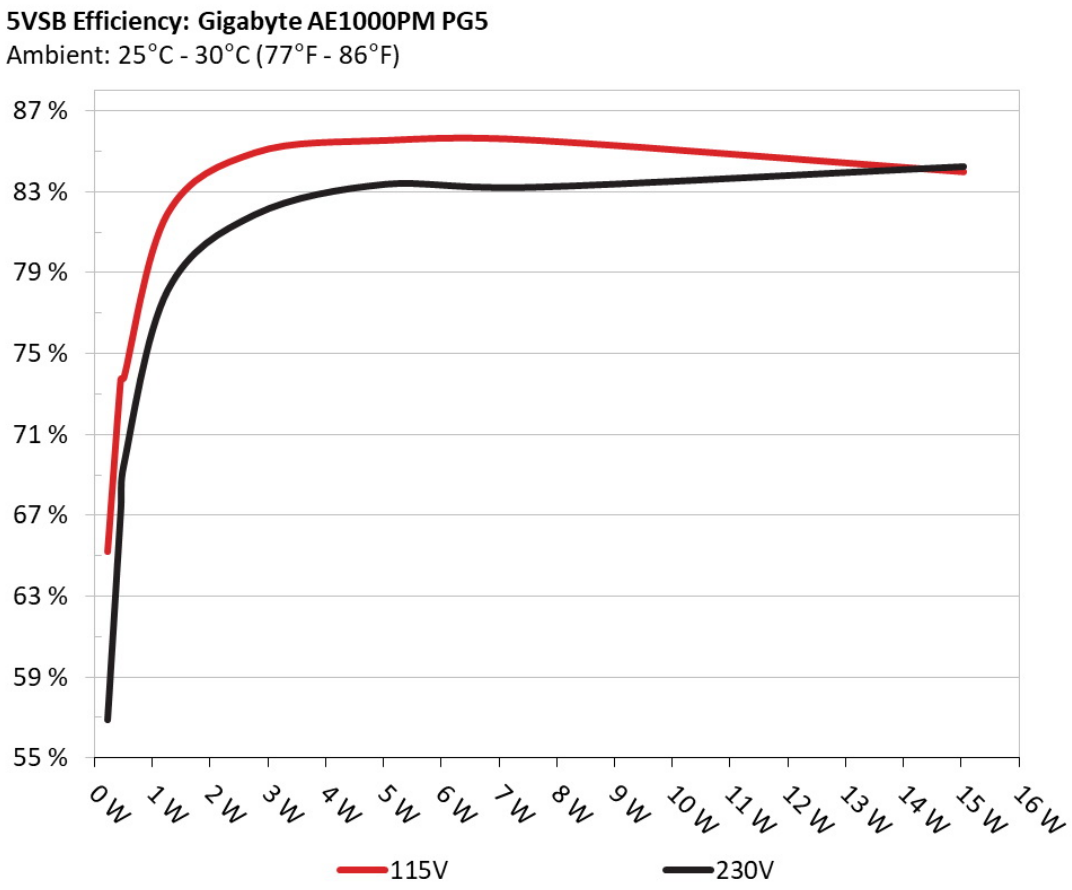
Efficiency under high ambient temperature



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**	0.228W	65.194%	0.04
	5.067V	0.35W		115.07V
2	**0.09A**	0.456W	73.726%	0.069
	5.066V	0.619W		115.07V
3	**0.55A**	2.782W	84.907%	0.277
	5.058V	3.277W		115.07V
4	**1A**	5.051W	85.51%	0.371
	5.05V	5.908W		115.06V
5	**1.5A**	7.563W	85.526%	0.418
	5.041V	8.843W		115.06V
6	**3.001A**	15.048W	83.958%	0.481
	5.015V	17.923W		115.06V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	**0.045A**	0.228W	56.867%	0.014
	5.068V	0.403W		230.33V
2	**0.09A**	0.456W	67.217%	0.024
	5.067V	0.678W		230.29V
3	**0.55A**	2.782W	81.884%	0.112
	5.059V	3.399W		230.25V
4	**1A**	5.051W	83.389%	0.182
	5.051V	6.058W		230.24V
5	**1.5A**	7.563W	83.232%	0.244
	5.042V	9.088W		230.24V
6	**3A**	15.047W	84.258%	0.342
	5.015V	17.859W		230.23V

Protection Features

OCP (Normal @ 29.8°C)	12V: 103.20A (123.89%), 12.046V 5V: 32.86A (131.44%), 4.773V 3.3V: 31A (124.00%), 3.289V 5VSB: 3.7A (123.33%), 5.002V
OCP (Hot @ 45.1°C)	12V: 103.20A (123.89%), 12.055V 5V: 31.5A (126.00%), 4.807V 3.3V: 30.4A (121.60%), 3.285V 5VSB: 3.8A (126.67%), 4.998V
OPP (Normal @ 30.9°C)	1225.07W (122.51%)
OPP (Hot @ 42.5°C)	1225.06W (122.51%)
OTP	✓ (115°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%	**6.502A**	**1.977A**	**1.989A**	**0.991A**	100.011	87.865%	0	<6.0	45.47°C	0.956
	12.058V	5.06V	3.319V	5.044V	113.824				40.23°C	115.02V
20%	**14.024A**	**2.969A**	**2.986A**	**1.192A**	199.969	91.411%	0	<6.0	47.13°C	0.975
	12.055V	5.053V	3.315V	5.036V	218.757				40.74°C	114.99V
30%	**21.902A**	**3.469A**	**3.488A**	**1.392A**	300.027	92.34%	0	<6.0	48.17°C	0.983
	12.053V	5.046V	3.312V	5.028V	324.916				41.42°C	114.95V
40%	**29.746A**	**3.969A**	**3.99A**	**1.594A**	399.632	92.376%	0	<6.0	50.28°C	0.985
	12.050V	5.04V	3.308V	5.02V	432.611				41.83°C	114.92V
50%	**37.257A**	**4.964A**	**4.993A**	**1.796A**	499.361	92.222%	591	<6.0	42.46°C	0.988
	12.047V	5.038V	3.305V	5.011V	541.485				66.66°C	114.88V
60%	**44.839A**	**5.959A**	**5.998A**	**1.999A**	599.872	91.888%	596	6.3	42.54°C	0.989
	12.044V	5.036V	3.302V	5.003V	652.832				51.63°C	114.84V
70%	**52.353A**	**6.955A**	**7.006A**	**2.203A**	699.597	91.411%	602	7	43.14°C	0.991
	12.043V	5.034V	3.298V	4.994V	765.325				47.28°C	114.8V
80%	**59.925A**	**7.949A**	**8.014A**	**2.306A**	799.586	90.816%	718	11.3	43.89°C	0.992
	12.043V	5.032V	3.294V	4.988V	880.444				48.84°C	114.76V
90%	**67.839A**	**8.449A**	**8.507A**	**2.41A**	899.358	90.171%	1270	28.5	44.18°C	0.993
	12.042V	5.03V	3.291V	4.981V	997.404				52.11°C	114.72V
100%	**75.569A**	**8.95A**	**9.033A**	**3.021A**	999.355	89.489%	1606	35.7	45.26°C	0.994
	12.038V	5.028V	3.288V	4.967V	1116.73				52.22°C	114.68V
110%	**83.221A**	**9.949A**	**10.138A**	**3.024A**	1099.955	88.753%	1896	40.7	46.56°C	0.994
	12.036V	5.026V	3.284V	4.962V	1239.34				53.15°C	114.64V
CL1	**0.116A**	**14.943A**	**14.99A**	**0A**	126.303	85.199%	0	<6.0	54.85°C	0.967
	12.073V	5.039V	3.309V	5.051V	148.244				42.47°C	115.02V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL2	**0.116A**	**24.807A**	**0A**	**0A**	126.258	83.323%	0	<6.0	55.43°C	0.967
	12.080V	5.034V	3.313V	5.057V	151.526				40.36°C	115.02V
CL3	**0.116A**	**0A**	**25.039A**	**0A**	83.884	78.667%	0	<6.0	56.92°C	0.957
	12.075V	5.042V	3.294V	5.048V	106.63				40.15°C	115.03V
CL4	**83.009A**	**0A**	**0A**	**0A**	999.93	90.002%	1580	35.4	45.55°C	0.994
	12.046V	5.034V	3.293V	5.025V	1111.006				51.21°C	114.69V

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%	**6.500A**	**1.977A**	**1.989A**	**0.991A**	100.004	89.142%	0	<6.0	49.69°C	0.861
	12.062V	5.058V	3.318V	5.044V	112.181				40.2°C	230.23V
20%	**14.020A**	**2.97A**	**2.987A**	**1.192A**	199.959	92.801%	0	<6.0	50.25°C	0.924
	12.059V	5.052V	3.314V	5.035V	215.47				40.9°C	230.22V
30%	**21.896A**	**3.469A**	**3.488A**	**1.393A**	300.018	93.789%	0	<6.0	51.1°C	0.949
	12.055V	5.046V	3.311V	5.027V	319.88				41.15°C	230.2V
40%	**29.737A**	**3.969A**	**3.991A**	**1.594A**	399.603	94.021%	0	<6.0	52.42°C	0.962
	12.052V	5.04V	3.308V	5.02V	425.012				41.63°C	230.18V
50%	**37.249A**	**4.965A**	**4.994A**	**1.796A**	499.325	94.003%	596	6.3	42.37°C	0.969
	12.049V	5.037V	3.304V	5.011V	531.179				58.76°C	230.17V
60%	**44.833A**	**5.96A**	**5.999A**	**1.999A**	599.849	93.87%	599	7	42.79°C	0.974
	12.046V	5.035V	3.301V	5.003V	639.021				60.65°C	230.15V
70%	**52.347A**	**6.956A**	**7.007A**	**2.203A**	699.574	93.631%	605	6.9	43.45°C	0.978
	12.044V	5.033V	3.297V	4.994V	747.159				63.29°C	230.13V
80%	**59.923A**	**7.951A**	**8.016A**	**2.306A**	799.568	93.29%	846	16.3	43.81°C	0.981
	12.044V	5.031V	3.293V	4.988V	857.074				67.66°C	230.11V
90%	**67.840A**	**8.451A**	**8.509A**	**2.409A**	899.354	92.918%	1281	29	44.84°C	0.983
	12.041V	5.029V	3.291V	4.982V	967.907				66.23°C	230.09V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100%	**75.571A**	**8.952A**	**9.037A**	**3.021A**	999.36	92.477%	1618	35.8	45.56°C	0.984
	12.038V	5.027V	3.286V	4.967V	1080.671				65.3°C	230.07V
110%	**83.220A**	**9.951A**	**10.14A**	**3.024A**	1099.955	92.024%	1922	41.4	46.75°C	0.986
	12.036V	5.025V	3.284V	4.962V	1195.286				66.04°C	230.05V
CL1	**0.116A**	**14.948A**	**15.001A**	**0A**	126.297	86.482%	0	<6.0	48.33°C	0.892
	12.074V	5.037V	3.306V	5.051V	146.045				40.21°C	230.23V
CL2	**0.115A**	**24.941A**	**0A**	**0A**	126.259	84.511%	0	<6.0	52.95°C	0.894
	12.080V	5.007V	3.313V	5.057V	149.407				41.68°C	230.22V
CL3	**0.115A**	**0A**	**25.034A**	**0A**	83.881	79.942%	0	<6.0	51.09°C	0.852
	12.075V	5.041V	3.295V	5.048V	104.928				41.2°C	230.23V
CL4	**83.012A**	**0A**	**0A**	**0A**	999.899	93.011%	1546	34.8	45.92°C	0.984
	12.045V	5.033V	3.293V	5.025V	1075.027				67.22°C	230.07V

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	**1.232A**	**0.495A**	**0.497A**	**0.198A**	20.007	69.755%	0	<6.0	39.11°C	0.862
	12.060V	5.047V	3.323V	5.063V	28.67				36.37°C	115.06V
40W	**2.712A**	**0.694A**	**0.695A**	**0.296A**	40.006	68.036%	0	<6.0	40.09°C	0.925
	12.059V	5.046V	3.322V	5.06V	58.802				37.32°C	115.04V
60W	**4.191A**	**0.892A**	**0.894A**	**0.396A**	60.006	81.968%	0	<6.0	42.39°C	0.937
	12.058V	5.046V	3.321V	5.057V	73.204				38.78°C	115.04V
80W	**5.666A**	**1.09A**	**1.093A**	**0.495A**	79.959	86.523%	0	<6.0	43.93°C	0.948
	12.057V	5.047V	3.32V	5.054V	92.416				39.42°C	115.03V

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	**1.231A**	**0.495A**	**0.497A**	**0.198A**	20.005	70.634%	0	<6.0	42.67°C	0.576
	12.067V	5.047V	3.321V	5.062V	28.32				36.39°C	230.24V
40W	**2.710A**	**0.694A**	**0.696A**	**0.296A**	40.003	68.821%	0	<6.0	44.72°C	0.752
	12.065V	5.046V	3.321V	5.06V	58.128				37.62°C	230.24V
60W	**4.189A**	**0.892A**	**0.894A**	**0.395A**	60.002	83.16%	0	<6.0	46.47°C	0.794
	12.063V	5.046V	3.32V	5.057V	72.155				38.72°C	230.24V
80W	**5.664A**	**1.09A**	**1.093A**	**0.495A**	79.95	87.613%	0	<6.0	47.59°C	0.833
	12.062V	5.046V	3.32V	5.054V	91.253				39.27°C	230.24V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	15.16mV	14.53mV	11.12mV	9.34mV	Pass
20% Load	16.86mV	16.38mV	12.31mV	10.89mV	Pass
30% Load	19.23mV	17.36mV	11.84mV	9.24mV	Pass
40% Load	21.09mV	19.11mV	12.93mV	9.60mV	Pass
50% Load	21.70mV	19.99mV	11.84mV	12.70mV	Pass
60% Load	21.96mV	19.01mV	12.93mV	13.89mV	Pass
70% Load	21.45mV	17.36mV	13.08mV	18.58mV	Pass
80% Load	21.76mV	17.31mV	13.29mV	24.26mV	Pass
90% Load	21.81mV	18.19mV	13.86mV	28.24mV	Pass
100% Load	20.97mV	20.32mV	14.30mV	25.65mV	Pass
110% Load	22.54mV	18.91mV	14.66mV	28.82mV	Pass
Crossload1	15.79mV	13.23mV	14.93mV	13.09mV	Pass
Crossload2	15.11mV	15.81mV	12.36mV	12.23mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
Crossload3	15.52mV	35.86mV	16.60mV	12.49mV	Pass
Crossload4	20.50mV	11.10mV	12.35mV	29.34mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	16.14mV	15.71mV	12.36mV	9.75mV	Pass
20% Load	18.77mV	16.59mV	12.67mV	9.86mV	Pass
30% Load	20.26mV	18.39mV	12.20mV	9.45mV	Pass
40% Load	22.94mV	19.68mV	13.14mV	10.74mV	Pass
50% Load	24.28mV	21.12mV	13.70mV	12.44mV	Pass
60% Load	23.66mV	20.81mV	13.86mV	17.34mV	Pass
70% Load	23.92mV	19.06mV	14.17mV	15.79mV	Pass
80% Load	23.15mV	19.94mV	15.46mV	16.31mV	Pass
90% Load	24.03mV	18.65mV	15.00mV	18.02mV	Pass
100% Load	22.95mV	22.02mV	14.64mV	26.38mV	Pass
110% Load	24.06mV	19.61mV	15.24mV	24.23mV	Pass
Crossload1	17.35mV	13.61mV	15.62mV	13.96mV	Pass
Crossload2	18.15mV	20.87mV	12.56mV	12.96mV	Pass
Crossload3	17.53mV	36.99mV	18.15mV	13.99mV	Pass
Crossload4	20.51mV	11.98mV	13.21mV	14.19mV	Pass

The results above are not used in the certification process

Gigabyte GP-AE1000PM PG5 / PG5 ICE



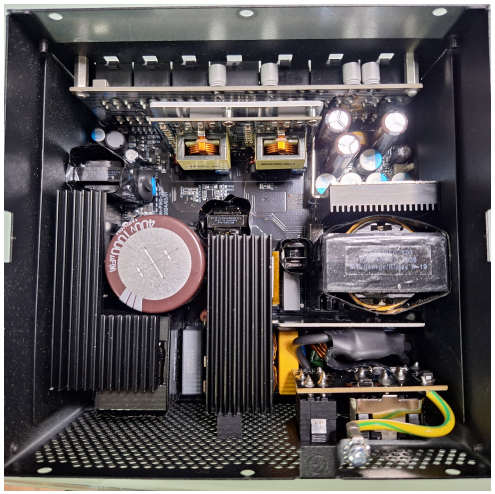
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Power specifications label



FAN



PSU INTERNAL

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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