



Gamemax GX-1050 PRO

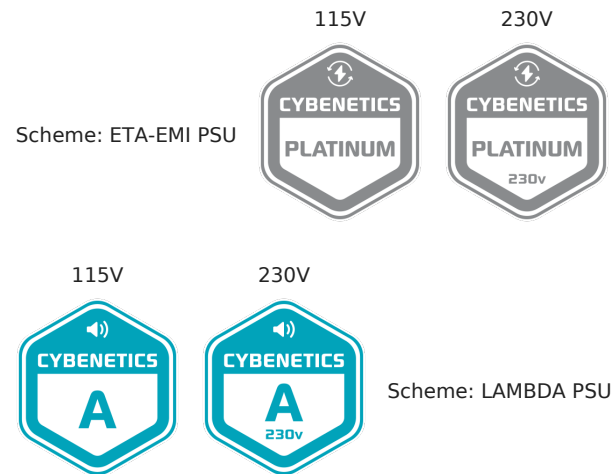
Serial Number

Lab ID GM10502654

Certification ID 252654

Test Result Report ID: 24PS2654A

Certificate Issue Date: Nov 20, 2024



A handwritten signature in blue ink, appearing to read 'A. Bitziopoulos', is written over a faint circular stamp.

Aristeidis Bitziopoulos, Certification Body General Manager

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	Gamemax
Model	GX-1050 PRO
OEM/ODM	Sohoo
Serial Number	
Product Specifications	
Manufacturer-Provided Information	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	15-8
Rated Frequency (Hz)	50-60

Rated Power (W)	1050
Operating Temperature (Continuous Full Load) (°C)	
Type	ATX12V
Cable Design	Fully Modular
Warranty	-
Cybenetics Measurements	
Dimensions (W x H x D)	
Weight	
Cooling	135mm Hydro Dynamic Bearing Fan (DF1352512FDHN)
Semi-Passive Operation	✓
Cybenetics Testing Information	
Lab ID	GM10502654
Date of receipt	Nov 5, 2024
Testing Date	Nov 19, 2024
Report Issued Date	Nov 20, 2024
DUT Notes	No -12V Rail, despite the label saying it has one. During OCP testing under normal and cold conditions, the +12V rail reached 127A (>145% load) without shutting down. This forces us to not provide an ATX v3.1 compliance.
Engineer Name	-
Authorized By the Laboratory Technical Manager	Aristeidis Bitziopoulos
Signature	

Cables and Connectors(Non-accredited measurements)

Modular Cables				
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (500mm)	1	1	16-20AWG	No
4+4 pin EPS12V (500mm)	2	2	16AWG	No
6+2 pin PCIe (510mm)	2	2	16AWG	No
12+4 pin PCIe (650mm) (600W)	1	1	16-24AWG	No
SATA (505mm+150mm+150mm+150mm)	1	4	18AWG	No

SATA (505mm+150mm+150mm)	1	3	18AWG	No
4-pin Molex (500mm+150mm+150mm)	2	6	16-18AWG	No

Protection Features(Manufacturer)

Over Voltage Protection	✓
Under Voltage Protection	✓
Over Power Protection	✓
Over Current (+12V) Protection	?
Over Temperature Protection	✓
Short Circuit Protection	✓
Surge Protection	✓

Power Specifications

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	87.5	2.5	0.3
	Watts	100		1050	12.5	3.6
Total Max. Power (W)		1050				

Parts Description

General Data	
Manufacturer (OEM)	Sohoo
PCB Type	Double-Sided
Primary Side	
Transient Filter	6x Y caps, 3x X caps, 2x CM chokes, 1x MOV
Inrush Protection	1x NTC Thermistor NTC-5D20 (5 ohm) & Relay
Bridge Rectifier(s)	2x Kanghong PBU1506L (600V, 15A @ 25°C)
APFC MOSFETs	2x no info
APFC Boost Diode	2x GPT G3S06506D (650V, 15.3A @ 100°C)

Bulk Cap(s)	1x Nichicon (400V, 1000uF, 2000h @ 105°C, GG(M))
Main Switchers	2x Sanrise Tech SRC60R068BS (600V, 21.5A @ 125°C, Rds(on): 68mOhm)
Resonant Controller	MPS HR1213
APFC Controller	Infineon ICE2PCS01
Topology	Primary side: APFC, Half-Bridge & LLC Resonant Converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	6x Infineon IAUC120N04S6N006 (40V, 120A @ 25°C, Rds(on): 0.60mOhm)
5V & 3.3V	DC-DC Converters: 4x All Power AP180N03G (30V, 115A @ 100°C, Rds(on): 2.1mOhm) PWM Controller(s): MicrouP3861P
Filtering Capacitors	Electrolytic: 2x Teapo (3-3,000 @ 105°C, SC) 1x Chengx (2-3,000h @105°C, GR) Polymer: 24x Teapo
IC Driver	MPS MP6924B
Supervisor IC	Greenergy GR8313F (OVP, UVP, PG)
Fan Model	DF1352512FDHN (135 mm, 12V, 0.34A, Fluid Dynamic Bearing Fan)
5VSB	
Rectifier	ER2EL60CS
Standby PWM Controller	Chipown PN8141

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	✓

Performance Summary

115V

Accredited	
Average Efficiency (>1450 load combinations)	89.789%
Average Noise Output (>1450 Load Combinations)	21.86dBA
Average PF (>1450 Load Combinations)	0.990
Efficiency With 10W ($\leq$ 500W) or 2% (>500W) Load	72.324%
Standby Power Consumption	0.0682W
Non-Accredited	
12V Ripple (Full Load)	32.08mV
5V Ripple (Full Load)	19.60mV
3.3V Ripple (Full Load)	23.48mV
5VSB Ripple (Full Load)	13.35mV
12V Load Regulation	0.71%
5V Load Regulation	0.74%
3.3V Load Regulation	0.75%
5VSB Load Regulation	2.87%
Inrush Current	92.110A

230V

Accredited	
Average Efficiency (>1450 load combinations)	91.528%
Average Noise Output (>1450 Load Combinations)	21.92dBA
Average PF (>1450 Load Combinations)	0.960
Efficiency With 10W ($\leq$ 500W) or 2% (>500W) Load	70.951%
Standby Power Consumption	0.1515W
Non-Accredited	
12V Ripple (Full Load)	28.43mV
5V Ripple (Full Load)	19.68mV
3.3V Ripple (Full Load)	23.97mV

5VSB Ripple (Full Load)	14.34mV	
12V Load Regulation	0.76%	
5V Load Regulation	0.68%	
3.3V Load Regulation	0.75%	
5VSB Load Regulation	2.87%	
Inrush Current	152.200A	
12V Transient Response (200%)	11.26V	
5V Transient Response (200%)	4.940V	
3.3V Transient Response (200%)	3.240V	
5VSB Transient Response (200%)	4.901V	
Hold-Up Time & PWR_OK Signal	22.20ms	
AC Loss to PWR_OK Hold Up Time	19.90ms	
PWR_OK Inactive to DC Loss Delay	2.30ms	
PSU Timings: T1 (20% / 100%)	68.0ms	67.0ms
PSU Timings: T3 (20% / 100%)	128.0ms	127.0ms
12V OCP (30.7°C / 42.3°C)	127.00A (145.14%), 11.886V*	127.00A (145.14%), 11.893V*
5V OCP (30.7°C / 42.3°C)		
3.3V OCP (30.7°C / 42.3°C)	28.6A (143.00%), 5.003V	28.1A (140.50%), 4.998V
5VSB OCP (30.7°C / 42.3°C)	28.7A (143.50%), 3.342V	28A (140.00%), 3.343V
OPP (30.65°C / 43.38°C)	139.50%	114.17%

Hold-Up Time & PWR_OK Signal

Hold-Up Time (ms)	22.2
AC Loss to PWR_OK Hold Up Time (ms)	19.9
PWR_OK Inactive to DC Loss Delay (ms)	2.3

Vampire Power

Tables

115V

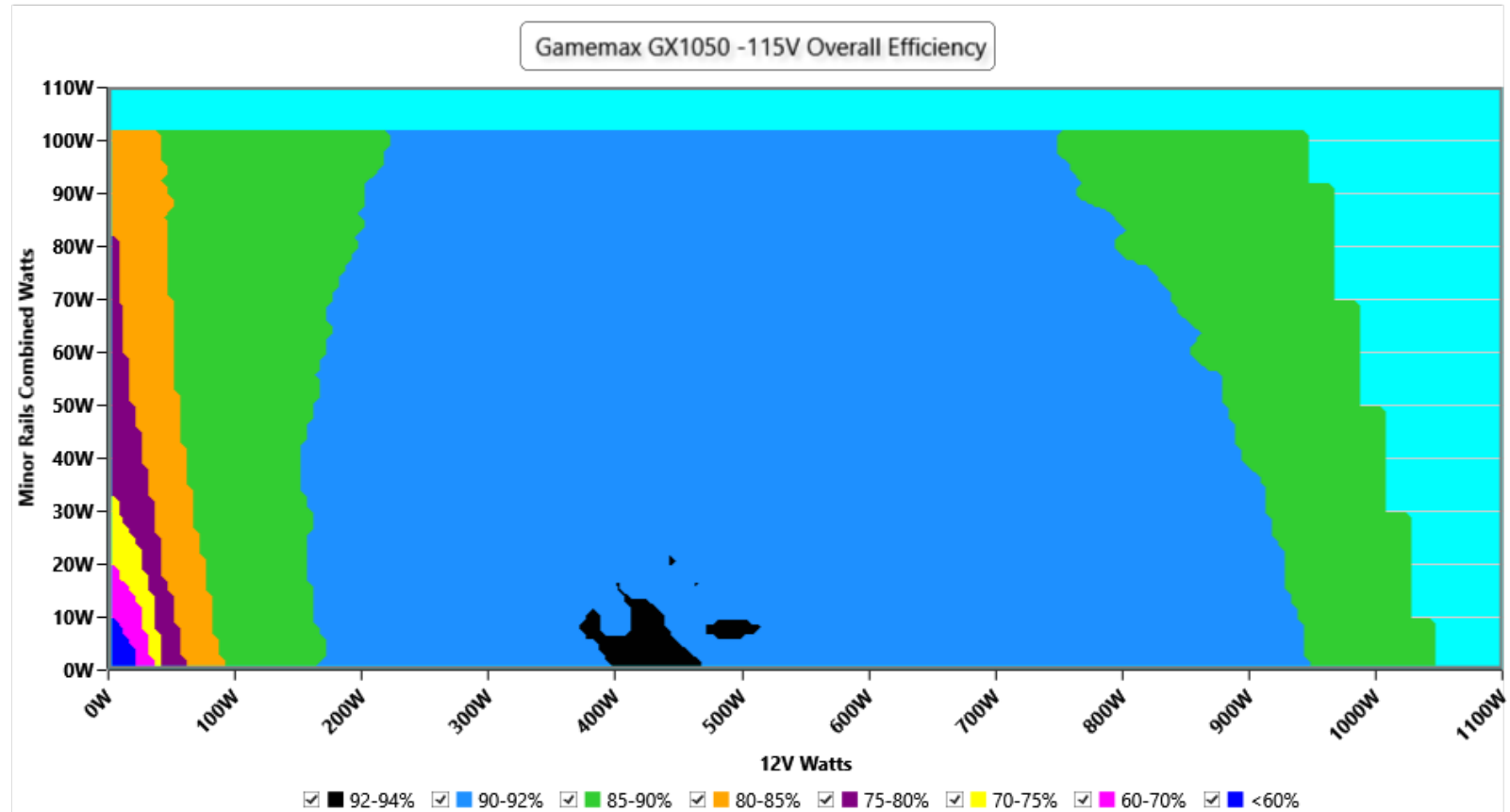
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.06 V	115.03 V	113.85 V	115.10 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.418	1.490	PASS
Mains Voltage THD:	0.13 %	0.09 %	N/A	0.18 %	2.00 %	PASS
Real Power:	0.068 W	-0.000 W	N/A	0.125 W	N/A	N/A
Apparent Power:	15.366 W	15.279 W	N/A	15.458 W	N/A	N/A
Power Factor:	0.005	N/A	N/A	N/A	N/A	N/A

230V

Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	231.01 V	230.93 V	227.70 V	231.08 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	1.419	1.490	PASS
Mains Voltage THD:	0.17 %	0.14 %	N/A	0.23 %	2.00 %	PASS
Real Power:	0.152 W	0.106 W	N/A	0.214 W	N/A	N/A
Apparent Power:	52.648 W	52.370 W	N/A	53.006 W	N/A	N/A
Power Factor:	0.002	N/A	N/A	N/A	N/A	N/A

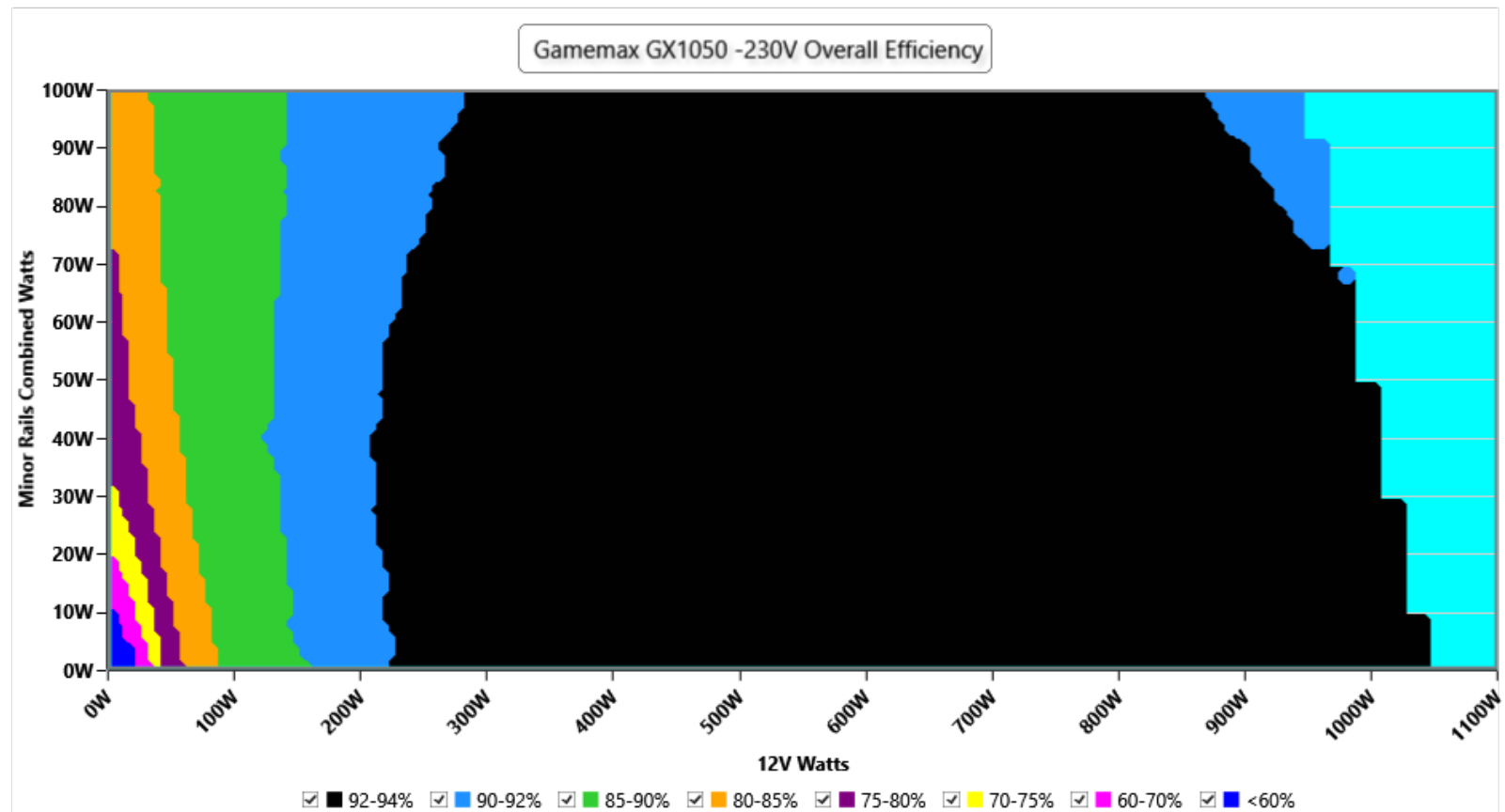
Efficiency Graph

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

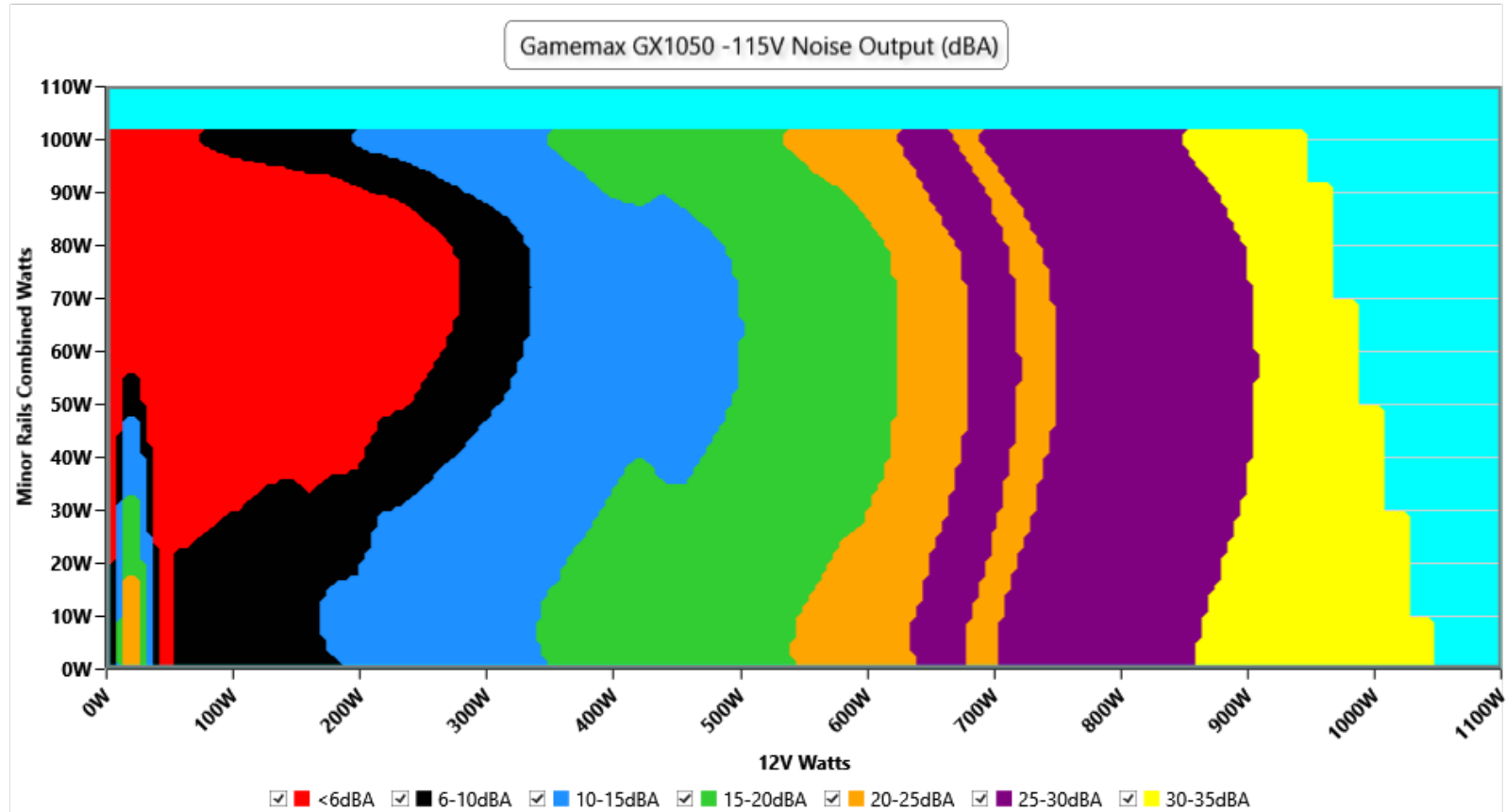


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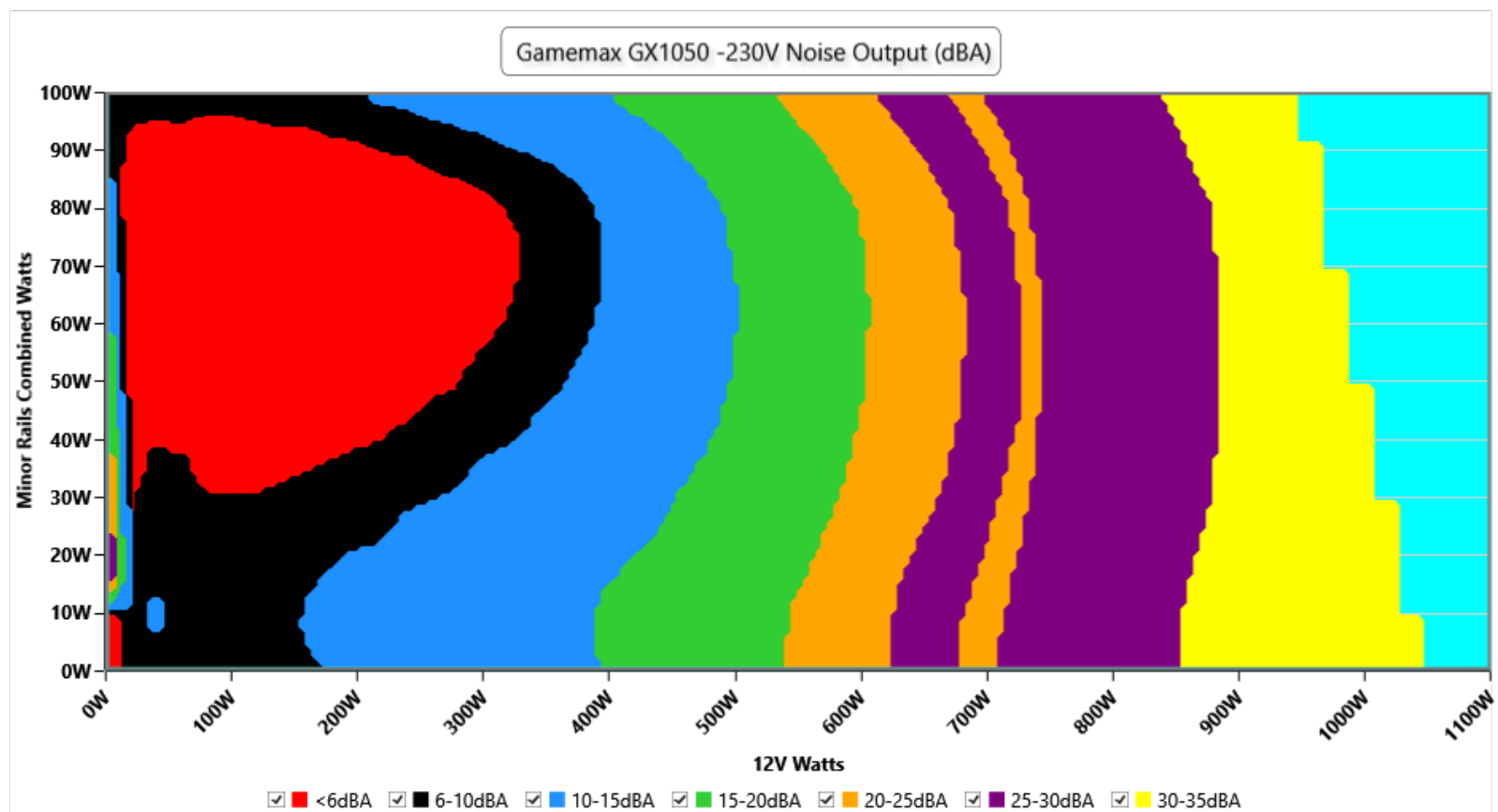
Noise Graph

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



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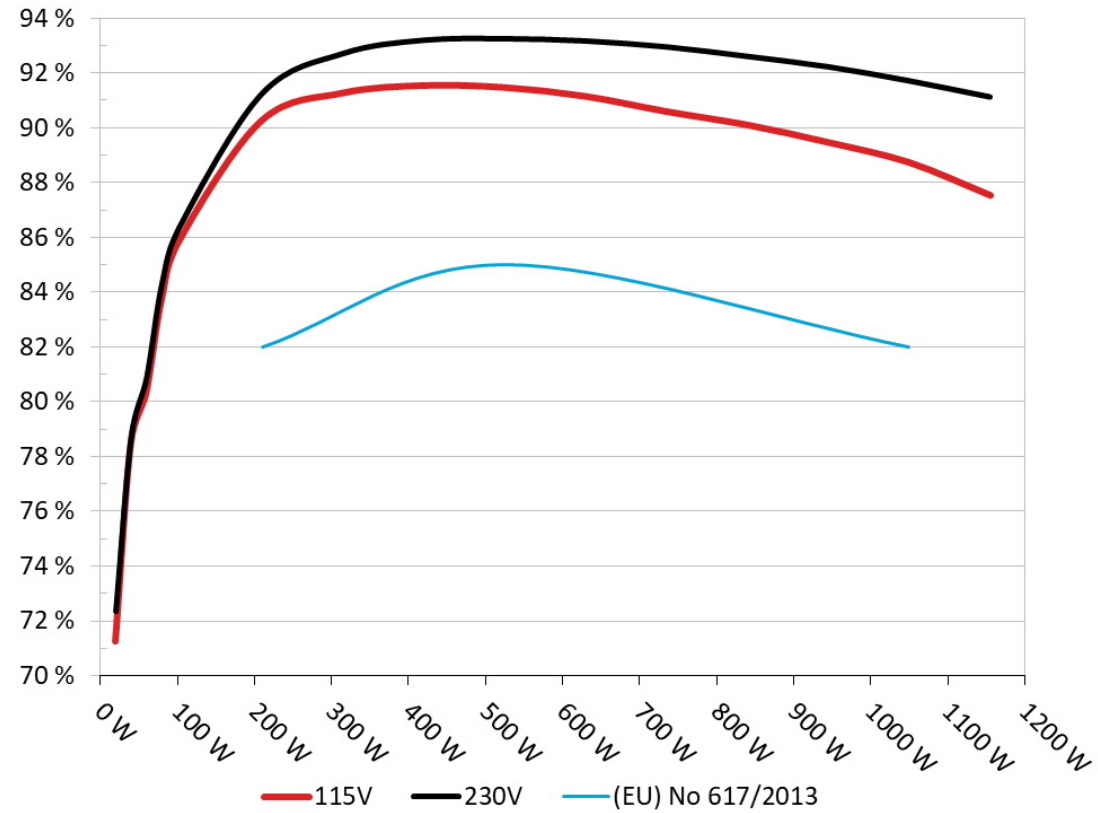
The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

Indicative Performance

Efficiency under high ambient temperature

Efficiency: Gamemax GX1050

Ambient: 36°C - 47°C (96.8°F - 116.6°F)



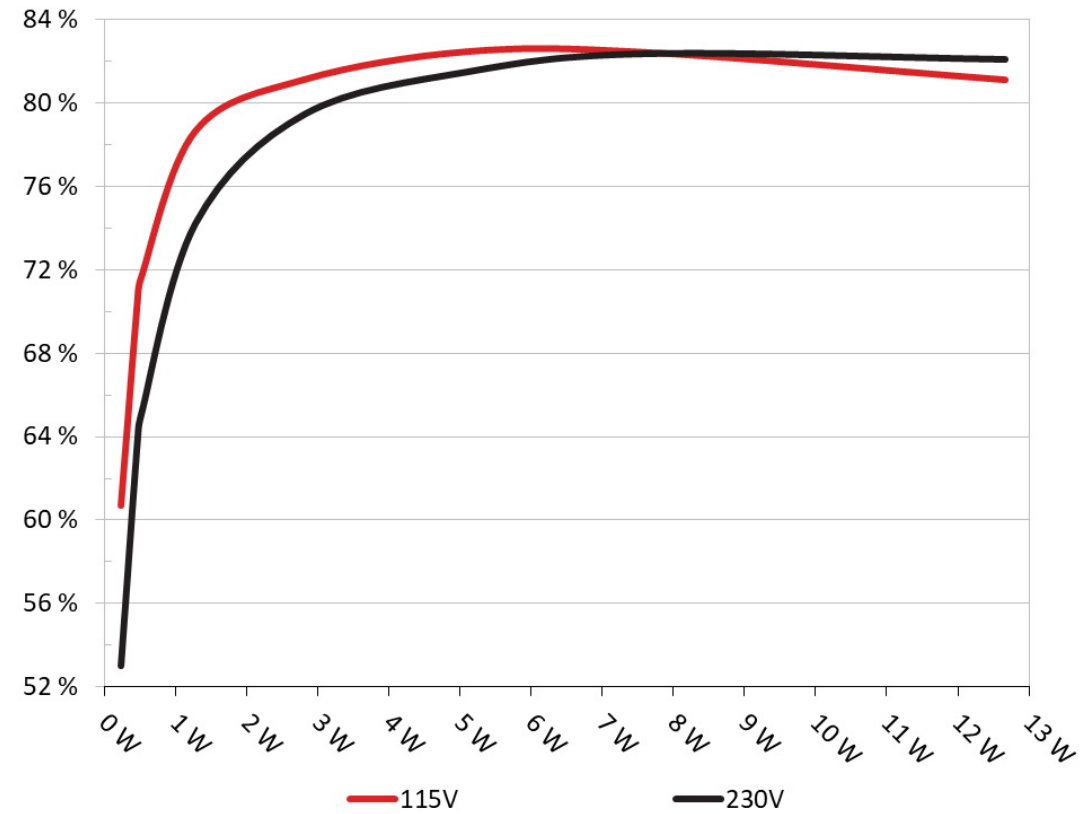
INFO

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: Gamemax GX1050

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

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

115V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.231W	60.684%	0.025
	5.132V	0.381W		114.86V
2	0.09A	0.462W	70.449%	0.043
	5.13V	0.656W		114.86V
3	0.55A	2.815W	81.106%	0.2
	5.119V	3.471W		114.85V
4	1A	5.107W	82.442%	0.303
	5.107V	6.195W		114.84V
5	1.5A	7.642W	82.401%	0.366
	5.094V	9.274W		114.86V
6	2.5A	12.669W	81.091%	0.446
	5.067V	15.623W		114.85V

230V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.231W	52.995%	0.008
	5.132V	0.437W		229.82V
2	0.09A	0.462W	63.736%	0.013
	5.131V	0.725W		229.83V
3	0.55A	2.816W	79.477%	0.064
	5.118V	3.544W		229.83V
4	1A	5.108W	81.509%	0.11
	5.107V	6.267W		229.83V
5	1.5A	7.642W	82.379%	0.156
	5.094V	9.277W		229.83V
6	2.501A	12.669W	82.105%	0.234
	5.066V	15.43W		229.83V

Protection Features

OCP (Normal @ 30.7°C)	12V: 127.00A (145.14%), 11.886V* *Didn't shut down 5V: 28.6A (143.00%), 5.003V 3.3V: 28.7A (143.50%), 3.342V 5VSB: 4.9A (196.00%), 4.993V
OCP (Hot @ 42.3°C)	12V: 127.00A (145.14%), 11.893V* *Didn't shut down 5V: 28.1A (140.50%), 4.998V 3.3V: 28A (140.00%), 3.343V 5VSB: 4.9A (196.00%), 4.993V
OPP (Normal @ 30.6°C)	1464.76W (139.50%)
OPP (Hot @ 43.4°C)	1198.76W (114.17%)
OTP	✓ (120°C @ Heat Sink)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓
PWR_OK	Proper Operation
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%	6.943A	1.982A	1.957A	0.981A	104.958	86.006%	427	7.7	40.29°C	0.971
	12.007V	5.045V	3.372V	5.099V	122.033				47.21°C	114.83V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
20%	14.918A	2.975A	2.938A	1.18A	209.956	90.283%	631	17.6	40.9°C	0.992
	12.002V	5.042V	3.37V	5.086V	225.917				47.6°C	111.88V
30%	23.247A	3.473A	3.43A	1.38A	314.979	91.286%	818	20.5	41.03°C	0.987
	11.998V	5.039V	3.368V	5.073V	295.592				49.03°C	100.7V
40%	31.550A	3.972A	3.922A	1.581A	419.59	91.559%	873	21.6	41.93°C	0.994
	11.993V	5.036V	3.366V	5.059V	458.271				49.31°C	114.74V
50%	39.575A	4.968A	4.907A	1.784A	524.923	91.487%	991	25.8	42.38°C	0.995
	11.988V	5.033V	3.363V	5.046V	573.759				50.5°C	114.71V
60%	47.541A	5.966A	5.893A	1.988A	629.454	91.166%	1080	28.9	42.71°C	0.995
	11.982V	5.029V	3.36V	5.032V	690.443				50.81°C	114.68V
70%	55.624A	6.971A	6.884A	2.083A	734.281	90.611%	1232	31.7	43.21°C	0.995
	11.968V	5.022V	3.356V	5.02V	810.428				54.61°C	114.64V
80%	63.715A	7.971A	7.874A	2.298A	839.614	90.12%	1296	33.8	43.53°C	0.995
	11.955V	5.018V	3.353V	5.006V	931.655				55.5°C	114.62V
90%	72.238A	8.475A	8.357A	2.403A	944.999	89.48%	1312	33.6	44.23°C	0.995
	11.940V	5.015V	3.35V	4.995V	1056.087				58.45°C	114.58V
100%	80.678A	8.979A	8.872A	2.509A	1049.684	88.748%	1435	36	45.05°C	0.995
	11.930V	5.012V	3.348V	4.983V	1182.789				55.15°C	114.54V
110%	88.923A	9.987A	9.959A	2.514A	1155.128	87.546%	1520	38.2	46.1°C	0.995
	11.913V	5.006V	3.343V	4.974V	1319.467				57.95°C	114.5V
CL1	0.117A	11.996A	11.83A	0A	101.3	80.751%	1168	30.5	41.79°C	0.973
	12.003V	5.019V	3.355V	5.12V	125.447				48.07°C	114.82V
CL2	0.116A	19.943A	0A	0A	101.349	79.762%	1139	30	40.56°C	0.973
	12.005V	5.012V	3.36V	5.122V	127.063				46.33°C	114.81V
CL3	0.115A	0A	19.679A	0A	67.387	73.257%	1011	25.8	39.76°C	0.963
	12.004V	5.034V	3.354V	5.122V	91.987				45.3°C	114.82V
CL4	87.963A	0A	0A	0A	1049.602	89.45%	1374	34.7	44.76°C	0.995
	11.932V	5.031V	3.356V	5.06V	1173.395				53.81°C	114.54V

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%	6.943A	1.982A	1.958A	0.981A	104.968	86.5%	415	7.5	40.38°C	0.846
	12.007V	5.045V	3.371V	5.099V	121.338				46.21°C	229.8V
20%	14.919A	2.976A	2.938A	1.18A	209.972	91.252%	611	14.5	40.81°C	0.933
	12.002V	5.041V	3.369V	5.086V	230.109				46.59°C	229.8V
30%	23.249A	3.473A	3.43A	1.38A	314.992	92.709%	740	17.8	41.02°C	0.965
	11.998V	5.039V	3.368V	5.073V	339.767				47.17°C	229.78V
40%	31.553A	3.972A	3.923A	1.581A	419.618	93.194%	891	23.3	41.91°C	0.98
	11.993V	5.036V	3.366V	5.06V	450.261				48.76°C	229.76V
50%	39.578A	4.968A	4.907A	1.784A	524.938	93.249%	984	26.1	42.08°C	0.985
	11.987V	5.033V	3.363V	5.046V	562.933				48.7°C	229.74V
60%	47.545A	5.966A	5.894A	1.988A	629.463	93.166%	1091	28.5	42.78°C	0.989
	11.981V	5.029V	3.36V	5.032V	675.636				49.67°C	229.73V
70%	55.619A	6.966A	6.883A	2.193A	734.805	92.95%	1187	30.9	43.17°C	0.991
	11.969V	5.025V	3.357V	5.018V	790.536				50.84°C	229.71V
80%	63.714A	7.966A	7.873A	2.297A	839.614	92.605%	1285	34.4	43.86°C	0.99
	11.956V	5.021V	3.353V	5.007V	906.662				52.8°C	229.69V
90%	72.240A	8.47A	8.357A	2.403A	945.002	92.224%	1371	34.7	44.06°C	0.989
	11.940V	5.018V	3.35V	4.995V	1024.69				54.71°C	229.68V
100%	80.733A	8.975A	8.873A	2.509A	1049.725	91.713%	1448	36.5	45.09°C	0.988
	11.922V	5.014V	3.347V	4.984V	1144.542				57.18°C	229.66V
110%	88.987A	9.983A	9.96A	2.513A	1155.165	91.123%	1509	37.8	46.84°C	0.987
	11.905V	5.009V	3.343V	4.975V	1267.689				59.45°C	229.64V
CL1	0.117A	11.996A	11.83A	0A	101.306	80.97%	1184	30.9	42.3°C	0.852
	12.003V	5.019V	3.355V	5.12V	125.113				51.5°C	229.81V
CL2	0.117A	19.944A	0A	0A	101.351	80.241%	1124	29.2	41.49°C	0.853
	12.005V	5.012V	3.36V	5.122V	126.312				49.74°C	229.81V
CL3	0.116A	0A	19.678A	0A	67.387	73.646%	970	24.9	41.29°C	0.786
	12.004V	5.034V	3.354V	5.122V	91.497				48.39°C	229.82V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
CL4	87.998A	0A	0A	0A	1049.59	92.419%	1345	34.3	44.55°C	0.988
	11.927V	5.03V	3.357V	5.061V	1135.677				53.94°C	229.66V

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	1.236A	0.495A	0.489A	0.195A	20.003	71.258%	0	<6.0	37.77°C	0.797
	12.015V	5.049V	3.371V	5.126V	28.067				36.66°C	114.84V
40W	2.721A	0.693A	0.685A	0.293A	40.001	78.495%	0	<6.0	41.07°C	0.906
	12.013V	5.049V	3.372V	5.122V	50.959				37.12°C	114.84V
60W	4.208A	0.891A	0.881A	0.391A	60.001	80.351%	0	<6.0	40.31°C	0.936
	12.010V	5.048V	3.373V	5.118V	74.677				38.9°C	114.84V
80W	5.689A	1.09A	1.076A	0.489A	79.944	83.768%	0	<6.0	40.99°C	0.962
	12.009V	5.047V	3.372V	5.115V	95.435				39.94°C	114.83V

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	1.236A	0.495A	0.49A	0.195A	20.007	72.346%	0	<6.0	40.65°C	0.362
	12.013V	5.048V	3.371V	5.127V	27.654				36.01°C	229.82V
40W	2.722A	0.693A	0.685A	0.293A	40.006	78.715%	0	<6.0	42.21°C	0.578
	12.012V	5.048V	3.371V	5.123V	50.827				37.58°C	229.82V
60W	4.208A	0.891A	0.881A	0.391A	60.006	80.871%	131	<6.0	38.11°C	0.714
	12.009V	5.048V	3.372V	5.118V	74.211				45.32°C	229.82V
80W	5.690A	1.09A	1.077A	0.489A	79.955	84.308%	301	<6.0	39.45°C	0.795
	12.008V	5.047V	3.372V	5.114V	94.834				45.97°C	229.82V

The results above are not used in the certification process

Ripple Measurements

115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	20.1 mV	18.1 mV	20.6 mV	10.6 mV	Pass
20% Load	19.0 mV	17.4 mV	20.1 mV	11.1 mV	Pass
30% Load	19.6 mV	17.7 mV	20.7 mV	10.5 mV	Pass
40% Load	19.3 mV	19.6 mV	21.4 mV	11.6 mV	Pass
50% Load	21.3 mV	18.6 mV	21.3 mV	11.0 mV	Pass
60% Load	21.3 mV	18.9 mV	19.8 mV	11.8 mV	Pass
70% Load	20.4 mV	17.0 mV	17.8 mV	11.8 mV	Pass
80% Load	26.2 mV	18.8 mV	21.7 mV	12.1 mV	Pass
90% Load	37.7 mV	19.0 mV	23.7 mV	11.9 mV	Pass
100% Load	32.1 mV	19.6 mV	23.5 mV	13.4 mV	Pass
110% Load	33.7 mV	19.6 mV	23.7 mV	14.0 mV	Pass
Crossload 1	18.9 mV	19.4 mV	20.6 mV	14.3 mV	Pass
Crossload 2	20.8 mV	24.5 mV	20.4 mV	12.2 mV	Pass
Crossload 3	20.1 mV	18.6 mV	21.2 mV	12.5 mV	Pass
Crossload 4	28.6 mV	18.6 mV	22.1 mV	15.3 mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	17.0 mV	16.5 mV	19.6 mV	10.6 mV	Pass
20% Load	16.2 mV	15.7 mV	18.5 mV	10.1 mV	Pass
30% Load	15.2 mV	14.4 mV	17.4 mV	9.4 mV	Pass
40% Load	18.4 mV	18.0 mV	19.9 mV	11.2 mV	Pass
50% Load	19.5 mV	19.7 mV	20.6 mV	11.9 mV	Pass
60% Load	20.4 mV	18.7 mV	20.2 mV	12.1 mV	Pass

Test	12V	5V	3.3V	5VSB	Pass/Fail
70% Load	20.6 mV	18.2 mV	21.7 mV	12.0 mV	Pass
80% Load	21.8 mV	19.7 mV	21.7 mV	12.9 mV	Pass
90% Load	25.7 mV	18.7 mV	24.2 mV	12.0 mV	Pass
100% Load	28.4 mV	19.7 mV	24.0 mV	14.3 mV	Pass
110% Load	30.9 mV	20.9 mV	24.1 mV	14.0 mV	Pass
Crossload 1	20.3 mV	19.4 mV	21.4 mV	15.5 mV	Pass
Crossload 2	19.8 mV	23.8 mV	19.7 mV	12.7 mV	Pass
Crossload 3	18.3 mV	18.1 mV	20.6 mV	13.3 mV	Pass
Crossload 4	27.0 mV	19.2 mV	22.2 mV	15.5 mV	Pass

The results above are not used in the certification process

Gamemax GX-1050 PRO



Top side

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 LTD Syrou 6, Latsia, 2231, Nicosia Cyprus

		VAC Input	100-240VAC, 15-8A, 50-60Hz		
		VDC Output	+3.3V	+5V	+12V -12V +5VSB
		Current	20A	20A	87.5A 0.3A 2.5A
		Max. Wattage	100W	1050W	3.6W 12.5W
		Total	1050W		

Power specifications label

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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