



GREEN MEDEL GP1200B-GXD

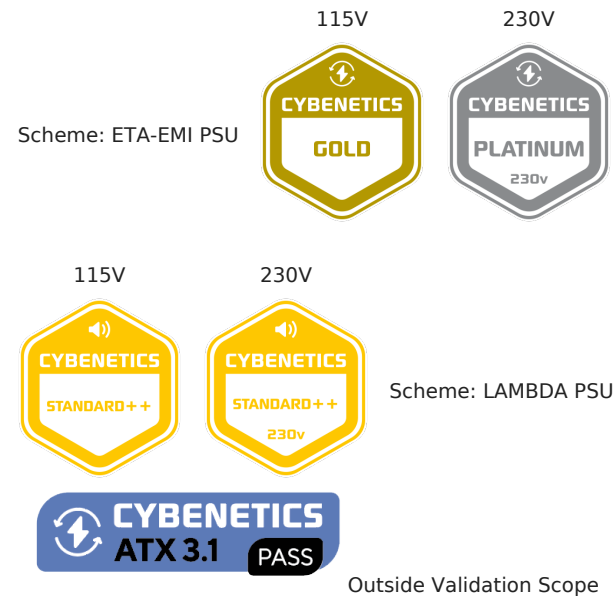
30201605307530029

Lab ID GE12002635

Certification ID 252635

Test Result Report ID: 24PS2635A

Certificate Issue Date: Nov 9, 2024



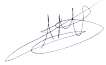
General Information

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	GREEN MEDEL
Model	GP1200B-GXD
OEM/ODM	Green Medel
Serial Number	30201605307530029
Product Specifications	
Manufacturer-Provided Information	
 (Vrms)	100-240
 (Arms)	50-60

□□□□ (Hz)	14-7
□□□□ (W)	1200
Operating Temperature (Continuous Full Load) (°C)	
□□	ATX12V
□□□□	Fully Modular
Warranty	-
Cybenetics Measurements	
Dimensions (W x H x D)	
Weight	
□□	120mm Fluid Dynamic Bearing Fan (D12BM-12FDB)
□□□□	x
Cybenetics Testing Information	
Lab ID	GE12002635
Date of receipt	Oct 18, 2024
Testing Date	Nov 7, 2024
Report Issued Date	Nov 9, 2024
Engineer Name	-
Authorized By the Laboratory Technical Manager	Aristeidis Bitziopoulos
Signature	

□□□□ (Non-accredited measurements)

□□□□				
□□	□□□□	□□□□□	Gauge	In Cable Capacitors
ATX □□ 20+4 pin (600mm)	1	1	18-22AWG	□
4+4 pin EPS 12V □□ (700mm)	2	2	16AWG	□
6+2pin PCIe□□ (550mm+150mm)	3	6	16-18AWG	□
12+4 pin PCIe (550mm) (600W)	1	1	16-26AWG	□
SATA□□ (510mm+150mm+150mm+145mm)	3	12	18AWG	□
4-pin Molex (500mm+150mm+150mm)	1	3	18AWG	□
AC Power Cord (1350mm) - C13 coupler	1	1	16AWG	-

Protection Features(Manufacturer)

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

□□□□

□	3.3V	5V	12V	5VSB	-12V
□□□□	□□	22	22	100	3
	□	110	1200	15	3.6
□□□□ (W)	1200				

Parts Description

General Data	
Manufacturer (OEM)	Jiumeng
PCB Type	Double-Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	1x NTC Thermistor MF72-5D15 (5 ohm) & Relay
Bridge Rectifier(s)	2x GBU2510 (1000V, 25A @ 25°C)
APFC MOSFETs	2x Way-On WMJ53N65F2 (650V, 26A @ 100°C, Rds(on): 0.0780hm)
APFC Boost Diode	1x Hestia Power H3D065A015 (650V, 15A @ 140°C)
Bulk Cap(s)	1x Rubycon (420V, 680uF, 3000h @ 105°C, MXK) 1x Rubycon (420V, 470uF, 3000h @ 105°C, MXK)

Main Switchers	2x NCEPower NCE65TF099T (650V, 24A @ 100°C, Rds(on): 109mOhm)
Resonant Controller	Champion CM6901X
APFC Controller	Champion CM6500UNX
Topology	Primary side: APFC, Half-Bridge & LLC Resonant Converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	6x Nexperia PSMN1R0-40YLD (40V, 280A @ 25°C, Rds(on): 1.1mOhm)
5V & 3.3V	DC-DC Converters: 4x Advanced Power Electronics Corp.AP4024GEMT (30V, 20.9A @ 70°C, Rds(on): 4.5mOhm) PWM Controller(s): Excellence MOSEM5301F
Filtering Capacitors	Electrolytic: 3x Rubycon (6-10,000 @ 105°C, ZLJ) 2x Rubycon (4-10,000 @ 105°C, YXJ) 2x Rubycon (6-10,000 @ 105°C, YXG) 1x Nichicon (2-3,000h @105°C, HW) Polymer: 30x FPCAP
Supervisor IC	Grenergy GR8313F (OVP, UVP, PG)
Fan Controller	Youwang UTC358
Fan Model	Green D12BM-12FDB (120 mm, 12V, 0.30A, Fluid Dynamic Bearing Fan)
5VSB	
Rectifier	1x SB1045L (45V, 10A)
Standby PWM Controller	Chipown PN8141

Test Results

Temperature & Compliance Info

□□□□ (°C /°F)	28-32 / 82.4-89.6
□□ ErP Lot3/6□□	✓
□□ (EU) No 617/2013□□	✓
ALPM (Alternative Low Power Mode) compatible	✓
ATX v3.1 PSU Power Excursion	✓

Performance Summary

115V

Accredited	
□□□□ (>1450 load combinations)	88.930%
Average Noise Output (>1450 Load Combinations)	34.81dBA
PF□□□ (>1450 Load Combinations)	0.992
Efficiency With 10W ($\leq$ 500W) or 2% (>500W) Load	68.850%
□□□□□	0.0607W
Non-Accredited	
12V Ripple (Full Load)	34.95mV
5V Ripple (Full Load)	15.21mV
3.3V Ripple (Full Load)	19.68mV
5VSB Ripple (Full Load)	14.32mV
12V Load Regulation	0.31%
5V Load Regulation	0.59%
3.3V Load Regulation	1.22%
5VSB Load Regulation	2.21%
Inrush Current	53.280A

230V

Accredited	
□□□□ (>1450 load combinations)	91.506%
Average Noise Output (>1450 Load Combinations)	34.69dBA
PF□□□ (>1450 Load Combinations)	0.967
Efficiency With 10W ($\leq$ 500W) or 2% (>500W) Load	67.308%
□□□□□	0.1681W
Non-Accredited	
12V Ripple (Full Load)	34.48mV
5V Ripple (Full Load)	13.71mV
3.3V Ripple (Full Load)	19.24mV

5VSB Ripple (Full Load)	13.85mV	
12V Load Regulation	0.33%	
5V Load Regulation	0.57%	
3.3V Load Regulation	1.22%	
5VSB Load Regulation	2.21%	
Inrush Current	63.010A	
12V Transient Response (200%)	11.22V	
5V Transient Response (200%)	4.989V	
3.3V Transient Response (200%)	3.307V	
5VSB Transient Response (200%)	4.974V	
□□□□ & PG□□	18.20ms	
AC Loss to PWR_OK Hold Up Time	16.90ms	
PWR_OK Inactive to DC Loss Delay	1.30ms	
PSU Timings: T1 (20% / 100%)	95.0ms	97.0ms
PSU Timings: T3 (20% / 100%)	121.0ms	121.0ms
12V OCP (29.8°C / 43.6°C)	135.20A (135.20%), 12.063V	119.40A (119.40%), 12.088V
5V OCP (29.8°C / 43.6°C)	29.2A (132.73%), 5.032V	28A (127.27%), 5.036V
3.3V OCP (29.8°C / 43.6°C)	30A (136.36%), 3.37V	30.2A (137.27%), 3.374V
5VSB OCP (29.8°C / 43.6°C)	3.7A (123.33%), 5.07V	3.7A (123.33%), 5.069V
OPP (28.66°C / 44.22°C)	132.63%	114.80%

□□□□ & PG□□

Hold-Up Time (ms)	18.2
AC Loss to PWR_OK Hold Up Time (ms)	16.9
PWR_OK Inactive to DC Loss Delay (ms)	1.3



Tables

115V

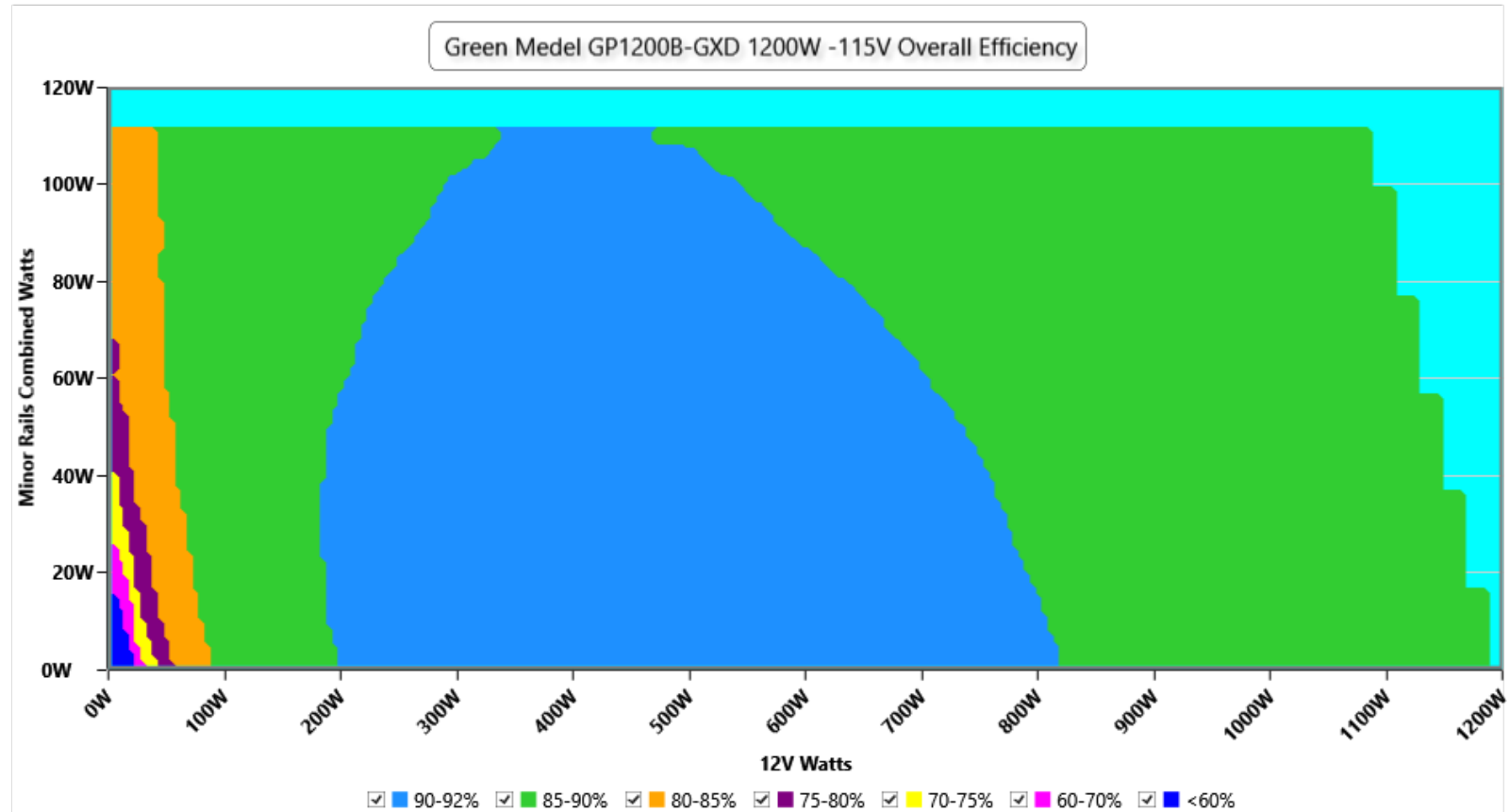
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.09 V	115.04 V	113.85 V	115.12 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.418	1.490	PASS
Mains Voltage THD:	0.13 %	0.08 %	N/A	0.18 %	2.00 %	PASS
Real Power:	0.061 W	0.008 W	N/A	0.100 W	N/A	N/A
Apparent Power:	8.698 W	8.578 W	N/A	8.828 W	N/A	N/A
Power Factor:	0.010	N/A	N/A	N/A	N/A	N/A

230V

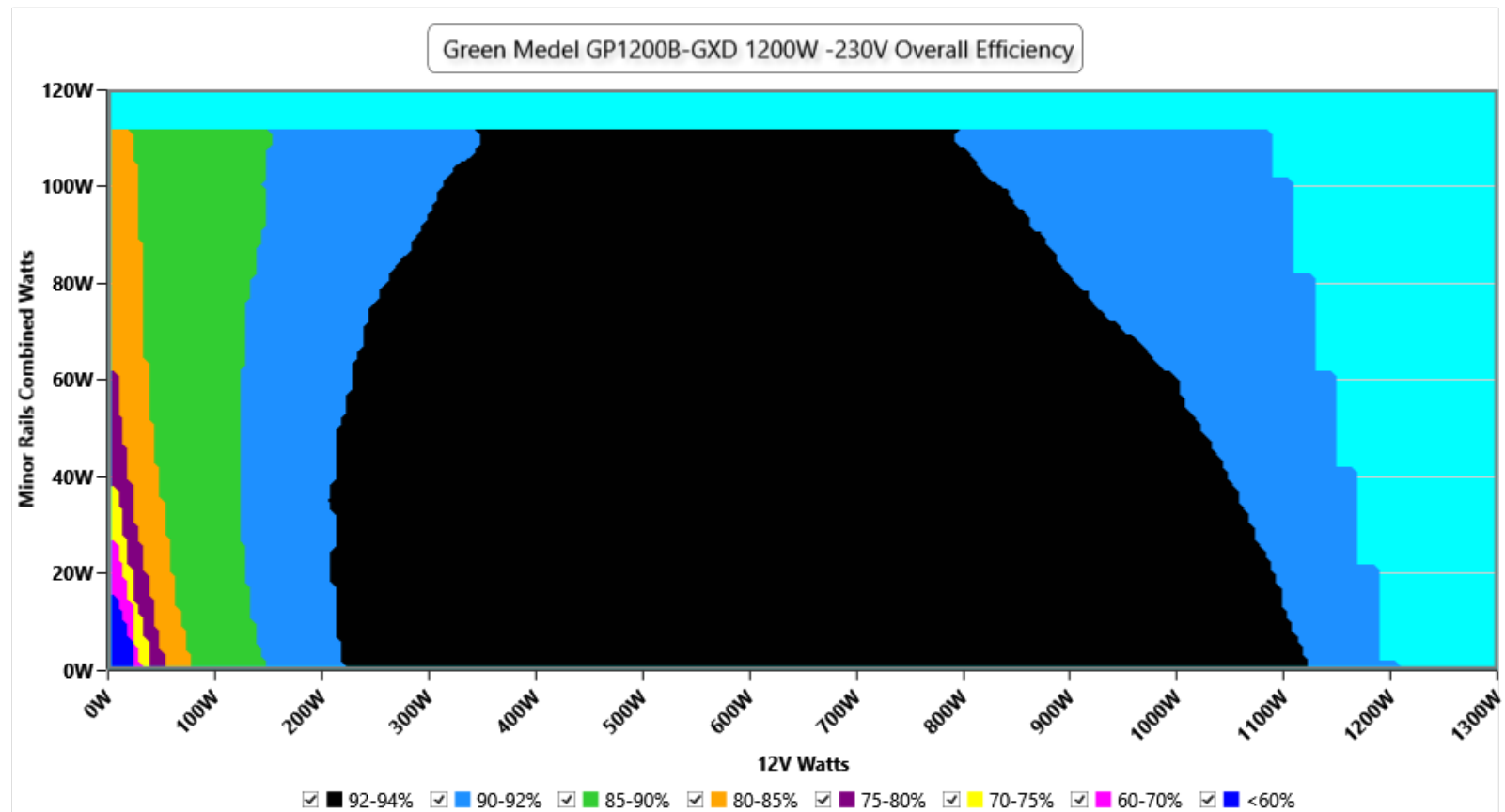
Detailed Results						
	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	231.03 V	230.93 V	227.70 V	231.10 V	232.30 V	PASS
Mains Frequency:	50.00 Hz	49.99 Hz	49.50 Hz	50.01 Hz	50.50 Hz	PASS
Mains Voltage CF:	1.417	1.417	1.340	1.419	1.490	PASS
Mains Voltage THD:	0.17 %	0.14 %	N/A	0.28 %	2.00 %	PASS
Real Power:	0.168 W	0.128 W	N/A	0.275 W	N/A	N/A
Apparent Power:	29.356 W	29.122 W	N/A	29.629 W	N/A	N/A
Power Factor:	0.006	N/A	N/A	N/A	N/A	N/A



115V



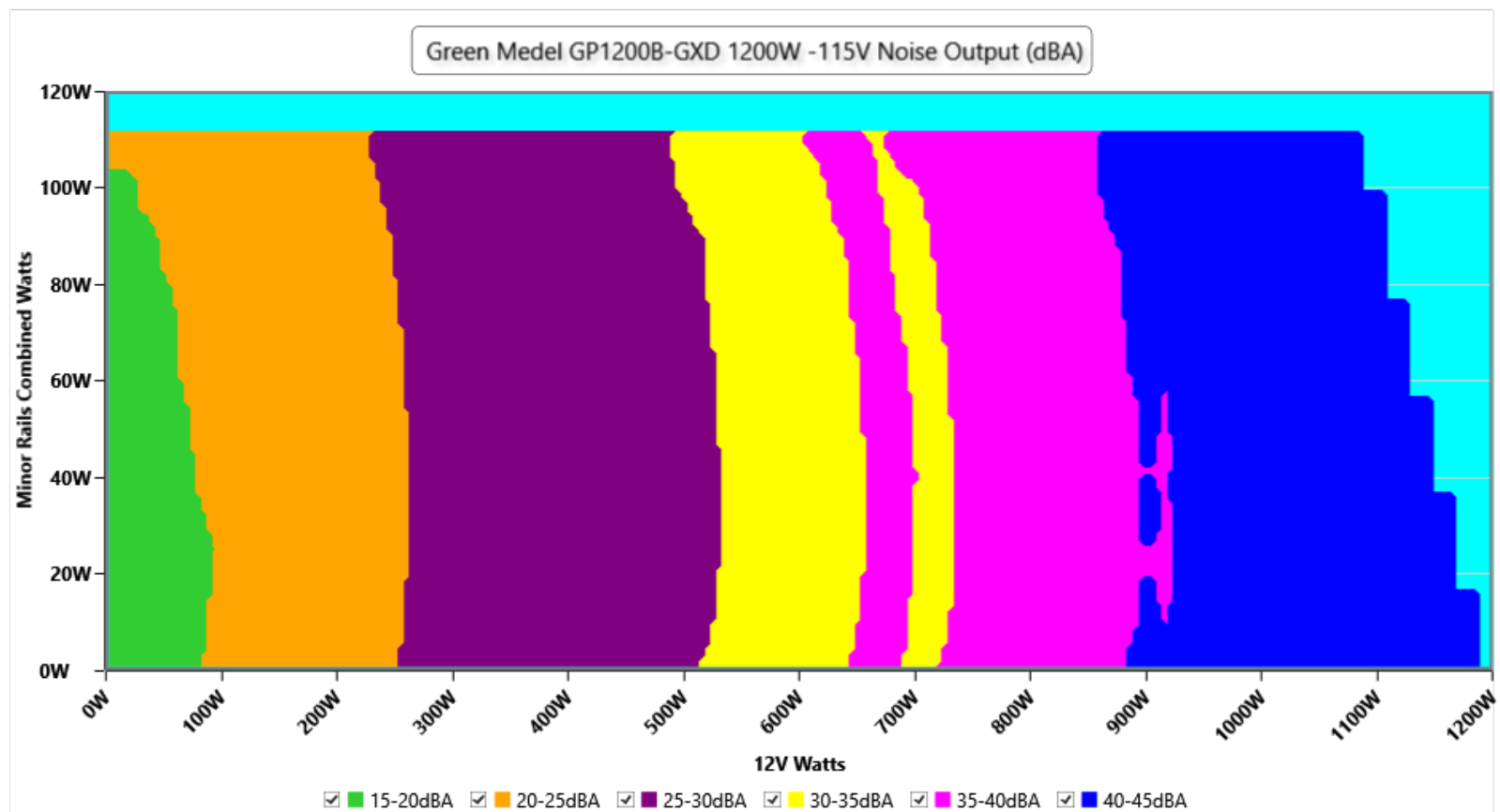
This graph depicts the PSU's efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations



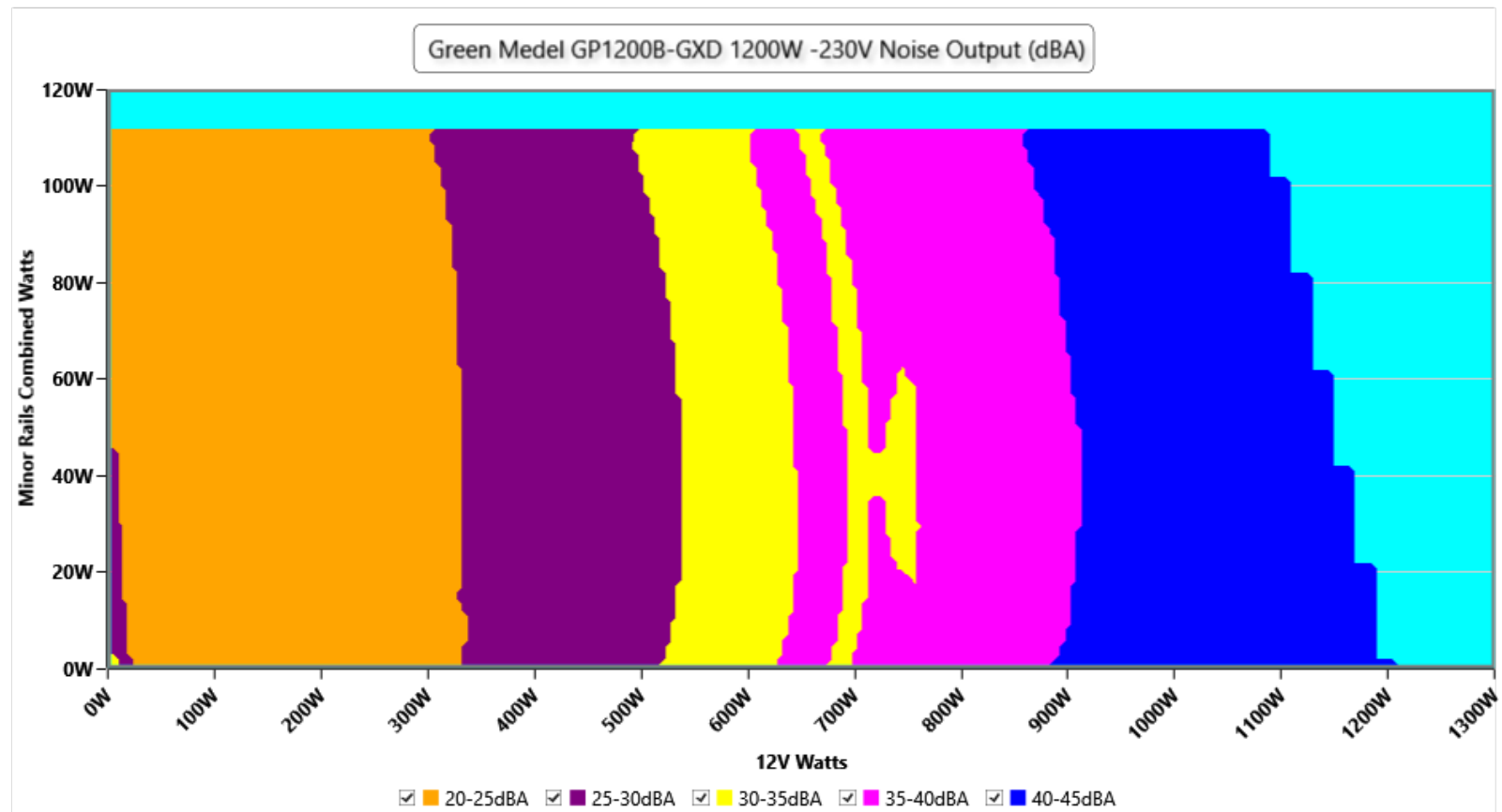
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115V

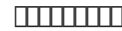


The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails



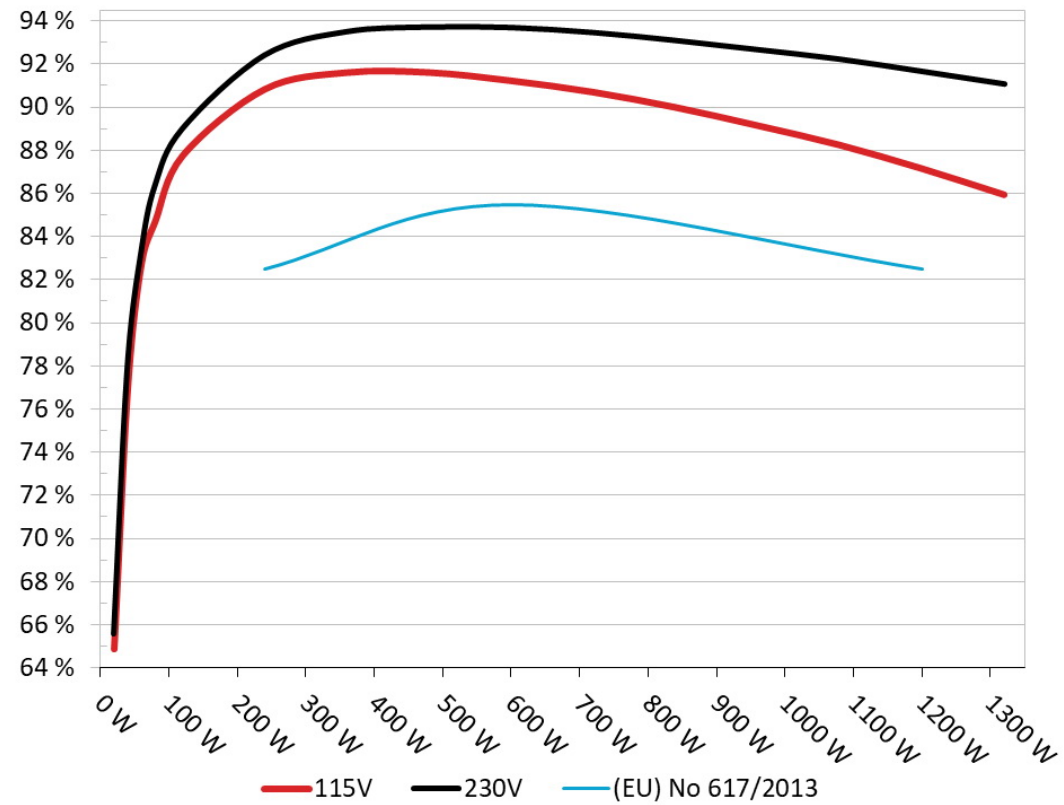
The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

Indicative Performance



Efficiency: Green Medel GP1200B-GXD 1200W

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

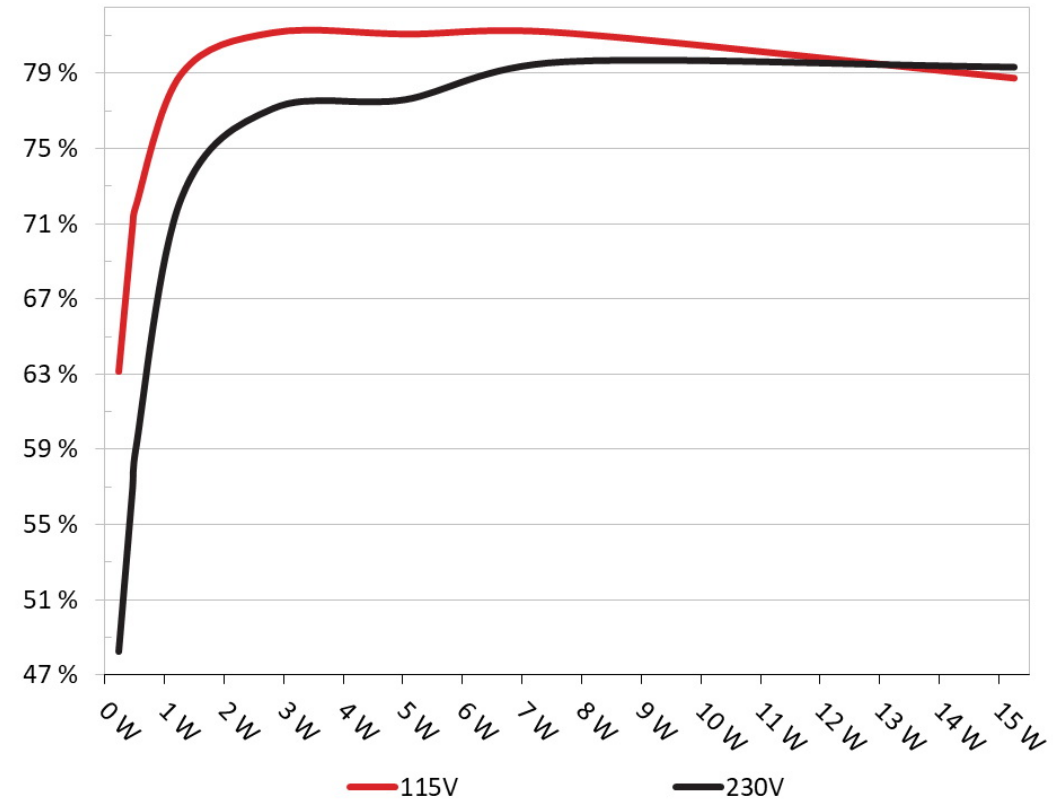


The PSU's efficiency under high ambient temperatures with 115V and 230V input. For this graph the results of the 10-110% load regulation table are used

5Vsb

5VSB Efficiency: Green Medel GP1200B-GXD 1200W

Ambient: 34°C - 36°C (93.2°F - 96.8°F)



□

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

5Vsb (ErP Lot3/6 & CEC)

115V

#	5VSB	DC/AC ()		PF/AC
1	0.045A	0.231W	62.628%	0.043
	5.127V	0.369W		115.2V
2	0.09A	0.462W	70.361%	0.075
	5.126V	0.657W		115.2V
3	0.55A	2.817W	80.683%	0.294
	5.119V	3.491W		115.2V
4	1A	5.114W	80.605%	0.389
	5.112V	6.345W		115.19V
5	1.501A	7.66W	80.681%	0.436
	5.105V	9.494W		115.18V
6	3.001A	15.248W	78.263%	0.499
	5.082V	19.483W		115.18V

230V

#	5VSB	DC/AC ()		PF/AC
1	0.045A	0.231W	47.757%	0.017
	5.127V	0.484W		230.44V
2	0.09A	0.462W	56.413%	0.029
	5.126V	0.819W		230.43V
3	0.55A	2.816W	76.605%	0.121
	5.117V	3.677W		230.44V
4	1A	5.043W	77.088%	0.195
	5.041V	6.541W		230.44V
5	1.501A	7.66W	79.085%	0.257
	5.105V	9.685W		230.44V
6	3.001A	15.248W	78.809%	0.358
	5.082V	19.348W		230.43V

Protection Features

OCP (Normal @ 29.8°C)	12V: 135.20A (135.20%), 12.063V 5V: 29.2A (132.73%), 5.032V 3.3V: 30A (136.36%), 3.37V 5VSB: 3.7A (123.33%), 5.07V
OCP (Hot @ 43.6°C)	12V: 119.40A (119.40%), 12.088V 5V: 28A (127.27%), 5.036V 3.3V: 30.2A (137.27%), 3.374V 5VSB: 3.7A (123.33%), 5.069V
OPP (Normal @ 28.7°C)	1591.57W (132.63%)
OPP (Hot @ 44.2°C)	1377.56W (114.80%)
OTP	✓ (150°C @ Heat Sink)
SCP	12V to Earth: ✓ 5V to Earth: ✓ 3.3V to Earth: ✓ 5VSB to Earth: ✓ -12V to Earth: ✓
PWR_OK	Proper Operation
NLO	✓
Fan Failure Protection	✗
SIP	Surge: MOV Inrush: NTC & Bypass Relay

Supplementary Tests (For Reference)

10-110%□□□□

115V

□□	12V	5V	3.3V	5VSB	DC/AC (□)	□□	□□□□ (RPM)	□□□□□□ (dB[A])	□□ (□□ /□□)	PF/AC □
10%	8.127A	1.967A	1.936A	0.98A	120.028	87.243%	876	25.3	40.14°C	0.989
	12.111V	5.086V	3.409V	5.106V	137.581				44.92°C	115.15V

20%	17.273A	2.952A	2.908A	1.178A	239.999	90.324%	999	28.5	40.74°C	0.985
	12.105V	5.083V	3.405V	5.096V	265.708				46.75°C	115.11V
30%	26.732A	3.445A	3.396A	1.377A	359.488	91.095%	1095	30.8	41.22°C	0.99
	12.099V	5.081V	3.401V	5.086V	394.631				47.97°C	115.08V
40%	36.270A	3.939A	3.885A	1.576A	479.84	91.102%	1209	32.6	41.73°C	0.993
	12.093V	5.079V	3.398V	5.077V	526.709				49.23°C	115.04V
50%	45.420A	4.927A	4.863A	1.777A	599.61	90.718%	1369	36.5	42.24°C	0.995
	12.089V	5.076V	3.393V	5.067V	660.951				51.09°C	115V
60%	54.642A	5.916A	5.843A	1.978A	720.142	90.19%	1513	38.5	42.88°C	0.996
	12.085V	5.073V	3.389V	5.056V	798.469				52.83°C	114.97V
70%	63.803A	6.906A	6.826A	2.18A	839.878	89.487%	1675	41.8	43.05°C	0.997
	12.080V	5.069V	3.385V	5.046V	938.536				54.53°C	114.93V
80%	73.035A	7.897A	7.81A	2.283A	959.888	88.644%	1800	43.6	43.75°C	0.997
	12.076V	5.066V	3.381V	5.037V	1082.85				57.36°C	114.9V
90%	82.583A	8.396A	8.294A	2.387A	1079.716	87.743%	1810	43.6	44.88°C	0.997
	12.075V	5.063V	3.376V	5.028V	1230.556				60.71°C	114.86V
100%	91.928A	8.895A	8.809A	2.994A	1199.792	86.652%	1818	43.8	45.44°C	0.998
	12.075V	5.06V	3.372V	5.012V	1384.609				65.66°C	114.83V
110%	101.219A	9.89A	9.889A	2.998A	1320.416	85.439%	1820	43.7	46.79°C	0.998
	12.074V	5.057V	3.367V	5.004V	1545.458				69.2°C	114.78V
CL1	0.117A	13.058A	12.856A	0A	111.324	81.992%	1231	33.3	41.36°C	0.989
	12.118V	5.07V	3.399V	5.115V	135.776				50.73°C	115.16V
CL2	0.116A	21.784A	0A	0A	111.407	80.797%	1103	30.9	40.15°C	0.989
	12.119V	5.05V	3.41V	5.12V	137.884				47.68°C	115.15V
CL4	99.412A	0A	0A	0A	1200.253	87.436%	1802	43.6	45.98°C	0.998
	12.073V	5.074V	3.381V	5.064V	1372.721				62.12°C	114.82V

The results above are not used in the certification process

230V

□□	12V	5V	3.3V	5VSB	DC/AC (□)	□□	□□□ (RPM)	□□□□□ (dB[A])	□□ (□□ /□□)	PF/AC □
10%	8.127A	1.967A	1.936A	0.98A	120.036	88.504%	896	24.6	40.27°C	0.891
	12.112V	5.086V	3.409V	5.106V	135.621				44.86°C	230.43V
20%	17.275A	2.952A	2.908A	1.178A	240.01	91.915%	1002	28.6	40.59°C	0.955
	12.104V	5.083V	3.405V	5.096V	261.118				45.83°C	230.41V
30%	26.739A	3.446A	3.396A	1.377A	359.549	93.004%	1105	31	41.21°C	0.972
	12.098V	5.081V	3.401V	5.086V	386.595				46.96°C	230.4V
40%	36.276A	3.94A	3.886A	1.576A	479.906	93.22%	1233	33.7	41.57°C	0.979
	12.093V	5.078V	3.398V	5.076V	514.811				48.05°C	230.38V
50%	45.430A	4.927A	4.863A	1.777A	599.68	93.197%	1374	36.4	42.14°C	0.984
	12.088V	5.076V	3.393V	5.066V	643.454				49.32°C	230.37V
60%	54.650A	5.916A	5.844A	1.978A	720.198	92.966%	1516	38.5	42.76°C	0.986
	12.084V	5.073V	3.389V	5.056V	774.686				50.61°C	230.35V
70%	63.813A	6.907A	6.826A	2.181A	839.934	92.598%	1680	41.8	43.15°C	0.988
	12.079V	5.069V	3.385V	5.046V	907.085				53.27°C	230.33V
80%	73.050A	7.897A	7.81A	2.284A	959.916	92.175%	1803	43.6	43.91°C	0.989
	12.075V	5.066V	3.381V	5.037V	1041.414				54.06°C	230.31V
90%	82.592A	8.396A	8.293A	2.387A	1079.737	91.73%	1810	43.6	44.43°C	0.99
	12.074V	5.063V	3.376V	5.028V	1177.084				56.44°C	230.29V
100%	91.947A	8.895A	8.808A	2.994A	1199.825	91.164%	1817	43.8	45.23°C	0.992
	12.073V	5.06V	3.372V	5.012V	1316.11				59.62°C	230.27V
110%	101.249A	9.889A	9.89A	2.998A	1320.464	90.579%	1822	43.9	46.71°C	0.993
	12.070V	5.057V	3.367V	5.004V	1457.812				61.4°C	230.25V
CL1	0.117A	13.06A	12.858A	0A	111.329	83.205%	1221	33	40.15°C	0.89
	12.117V	5.07V	3.399V	5.115V	133.803				48.28°C	230.43V
CL2	0.116A	21.787A	0A	0A	111.41	81.969%	1112	31.4	41.41°C	0.892
	12.119V	5.049V	3.41V	5.12V	135.921				47.62°C	230.43V
CL4	99.404A	0A	0A	0A	1200.328	91.779%	1807	43.6	45.7°C	0.991
	12.075V	5.073V	3.381V	5.064V	1307.838				57.2°C	230.28V

The results above are not used in the certification process

20-80mm

115V

	12V	5V	3.3V	5VSB	DC/AC (%)		(RPM)	(dB[A])	(°C /°F)	PF/AC
20W	1.228A	0.491A	0.483A	0.195A	20.011	64.383%	655	20.7	36.53°C	0.862
	12.098V	5.09V	3.413V	5.123V	31.081				39.56°C	115.18V
40W	2.700A	0.688A	0.677A	0.293A	40.009	76.583%	697	21.4	37.75°C	0.943
	12.110V	5.089V	3.412V	5.121V	52.242				40.89°C	115.17V
60W	4.172A	0.885A	0.871A	0.391A	60.008	82.281%	740	22.4	38.76°C	0.96
	12.112V	5.089V	3.412V	5.118V	72.93				42.26°C	115.16V
80W	5.642A	1.081A	1.064A	0.489A	79.977	84.204%	797	24.1	39.4°C	0.976
	12.113V	5.088V	3.411V	5.116V	94.98				43.71°C	115.16V

The results above are not used in the certification process

230V

	12V	5V	3.3V	5VSB	DC/AC (%)		(RPM)	(dB[A])	(°C /°F)	PF/AC
20W	1.228A	0.491A	0.483A	0.195A	20.011	65.075%	677	20.4	36.28°C	0.52
	12.101V	5.089V	3.413V	5.123V	30.751				40.2°C	230.44V
40W	2.700A	0.688A	0.677A	0.293A	40.009	77.516%	705	22.2	37.48°C	0.666
	12.112V	5.089V	3.413V	5.121V	51.617				41.46°C	230.44V
60W	4.172A	0.885A	0.871A	0.391A	60.007	82.784%	746	22.6	38.24°C	0.763
	12.112V	5.089V	3.412V	5.118V	72.487				42.34°C	230.43V
80W	5.642A	1.081A	1.064A	0.489A	79.977	85.848%	819	24.1	39.3°C	0.828
	12.113V	5.088V	3.411V	5.116V	93.166				43.74°C	230.43V

The results above are not used in the certification process



115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	22.2 mV	7.1 mV	11.3 mV	6.5 mV	Pass
20% Load	26.5 mV	8.4 mV	9.5 mV	6.2 mV	Pass
30% Load	22.2 mV	8.6 mV	10.7 mV	9.4 mV	Pass
40% Load	21.9 mV	17.2 mV	20.6 mV	7.3 mV	Pass
50% Load	22.3 mV	20.3 mV	19.0 mV	8.0 mV	Pass
60% Load	21.3 mV	10.0 mV	13.5 mV	9.2 mV	Pass
70% Load	22.6 mV	11.8 mV	16.4 mV	9.5 mV	Pass
80% Load	22.9 mV	12.1 mV	18.9 mV	10.4 mV	Pass
90% Load	23.8 mV	13.4 mV	19.3 mV	11.6 mV	Pass
100% Load	35.0 mV	15.2 mV	19.7 mV	14.3 mV	Pass
110% Load	37.8 mV	14.5 mV	18.1 mV	15.0 mV	Pass
Crossload 1	32.2 mV	10.0 mV	15.1 mV	6.8 mV	Pass
Crossload 2	24.8 mV	15.3 mV	10.2 mV	5.7 mV	Pass
Crossload 4	35.7 mV	12.6 mV	13.1 mV	11.0 mV	Pass

The results above are not used in the certification process

230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	20.7 mV	6.7 mV	9.9 mV	5.6 mV	Pass
20% Load	25.2 mV	8.2 mV	11.6 mV	7.3 mV	Pass
30% Load	21.5 mV	8.7 mV	11.8 mV	8.9 mV	Pass
40% Load	20.7 mV	19.0 mV	19.9 mV	7.9 mV	Pass
50% Load	20.3 mV	32.2 mV	20.9 mV	7.8 mV	Pass
60% Load	20.3 mV	10.2 mV	14.6 mV	8.5 mV	Pass
70% Load	20.3 mV	11.3 mV	14.8 mV	9.8 mV	Pass

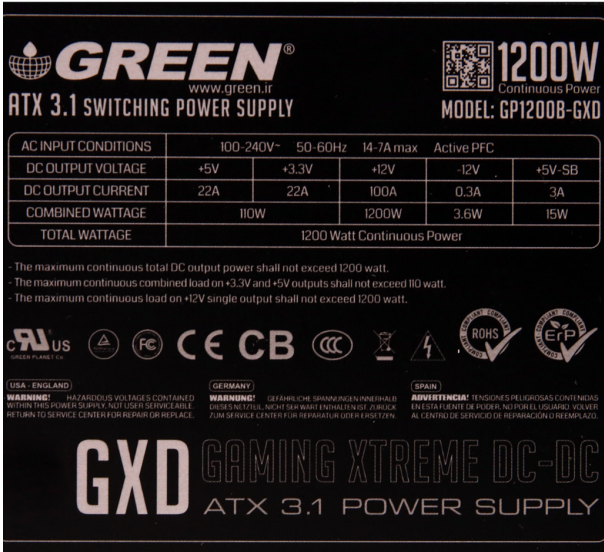
Test	12V	5V	3.3V	5VSB	Pass/Fail
80% Load	21.2 mV	12.3 mV	18.2 mV	10.2 mV	Pass
90% Load	22.3 mV	13.0 mV	19.5 mV	11.9 mV	Pass
100% Load	34.5 mV	13.7 mV	19.2 mV	13.9 mV	Pass
110% Load	36.5 mV	15.9 mV	21.4 mV	15.4 mV	Pass
Crossload 1	32.6 mV	9.8 mV	12.0 mV	6.6 mV	Pass
Crossload 2	24.5 mV	15.4 mV	10.0 mV	5.5 mV	Pass
Crossload 4	33.4 mV	12.4 mV	12.0 mV	10.9 mV	Pass

The results above are not used in the certification process

GREEN MEDEL GP1200B-GXD



Top side



Power specifications label

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