

Anex

Enermax MarbleBron RGB 850

Lab ID#: EM85001963
 Receipt Date: Jan 4, 2022
 Test Date: Jan 18, 2022

Report: 22PS1963A
 Report Date: Jan 19, 2022

DUT INFORMATION	
Brand	Enermax
Manufacturer (OEM)	SANR Electronic Technology Co. Ltd
Series	MarbleBron RGB
Model Number	EMB850EWT-RGB
Serial Number	210801900044
DUT Notes	

DUT SPECIFICATIONS	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	11-5.5
Rated Frequency (Hz)	47-63
Rated Power (W)	850
Type	ATX12V
Cooling	120mm Fluid Dynamic Bearing Fan (HA1225H12F-Z)
Semi-Passive Operation	X
Cable Design	Semi Modular

TEST EQUIPMENT	
Electronic Loads	Chroma 63601-5 x4 Chroma 63600-2 x2 63640-80-80 x20 63610-80-20 x2
AC Sources	Chroma 6530, Keysight AC6804B
Power Analyzers	N4L PPA1530 x2
Sound Analyzer	Bruel & Kjaer 2270 G4
Microphone	Bruel & Kjaer Type 4955-A
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2
Tachometer	UNI-T UT372 x2
Digital Multimeter	Keysight U1273AX, Fluke 289, Keithley 2015 - THD
UPS	CyberPower OLS3000E 3kVA x2
Transformer	3kVA x2

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Enermax MarbleBron RGB 850

RESULTS

Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓

115V

Average Efficiency	84.927%
Efficiency With 10W (≤500W) or 2% (>500W)	62.319
Average Efficiency 5VSB	79.273%
Standby Power Consumption (W)	0.0491185
Average PF	0.985
Avg Noise Output	39.00 dB(A)
Efficiency Rating (ETA)	BRONZE
Noise Rating (LAMBDA)	Standard+

230V

Average Efficiency	87.869%
Average Efficiency 5VSB	76.941%
Standby Power Consumption (W)	0.1338070
Average PF	0.938
Avg Noise Output	38.83 dB(A)
Efficiency Rating (ETA)	SILVER
Noise Rating (LAMBDA)	Standard+

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	70	2.5	0.3
	Watts	130		840	12.5	3.6
Total Max. Power (W)		850				

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

Hold-Up Time (ms)	11.4
AC Loss to PWR_OK Hold Up Time (ms)	8.6
PWR_OK Inactive to DC Loss Delay (ms)	2.8

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CABLES AND CONNECTORS

Captive Cables

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (620mm)	1	1	18-22AWG	No
4+4 pin EPS12V (670mm)	2	2	18AWG	No
RGB Header Cable (720mm)	1	1	26AWG	No

Modular Cables

6+2 pin PCIe (500mm+150mm)	2	4	18AWG	No
SATA (450mm+150mm) / 4-pin Molex (+150mm)	3	6 / 3	18AWG	No
SATA (450mm+150mm) / 4-pin Molex (+150mm) / FDD (+150mm)	1	2 / 1 / 1	18-22AWG	No
AC Power Cord (1100mm) - C13 coupler	1	1	18AWG	-

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General Data	-
Manufacturer (OEM)	SANR Electronic Technology
PCB Type	Single Sided
Primary Side	-
Transient Filter	4x Y caps, 2x X caps, 1x DM choke, 2x CM chokes, 1x MOV
Inrush Protection	NTC Thermistor SCK203R0 (3 Ohm)
Bridge Rectifier(s)	1x GBU1506 (800V, 15A @ 100°C)
APFC MOSFETs	2x 65R099W
APFC Boost Diode	1x CRMicro CRXI08D065G1 (650V, 8A @ 159°C)
Bulk Cap(s)	2x TK (400V, 330uF each or 660uF combined, 105°C, LFW)
Main Switchers	2x CW CWS20N60AZ (600V, 13A @ 100°C, Rds(on): 0.19Ohm)
PFC/PWM Combo Controller	Champion CM6800UX
Topology	Primary side: APFC, Double Forward Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	-
+12V MOSFETs	4x Potens PDD6974-5 (65V, 60A @ 100°C, Rds(on): 3.3mOhm)
5V & 3.3V	DC-DC Converters: 4x Maplesemi SLD80N03T (30V, 48A @ 100°C, Rds(on): 5.5mOhm) PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic: 9x Asia'x (105°C, TMX) Polymer: 2x NJcon, 3x no info
Supervisor IC	Grenergy GR8313 (OVP, UVP, SCP, PG)
Fan Model	Enermax PF19011225-1800-ARGB (120mm, 12V - 0.26A, 5V - 0.6A, Fluid Dynamic Bearing Fan)
5VSB Circuit	-
Standby PWM Controller	SC2521Q

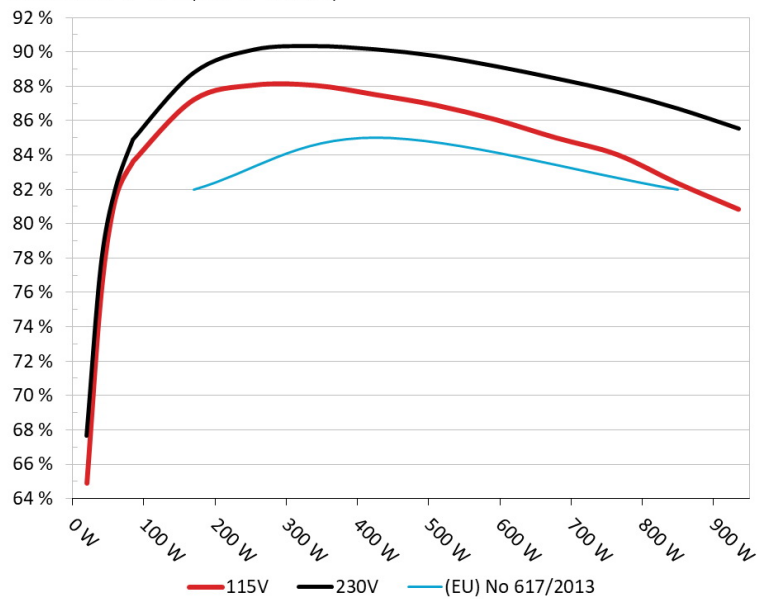
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EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

Efficiency: Enermax MarbleBron RGB 850

Ambient: 33°C - 41°C (91.4°F - 105.8°F)



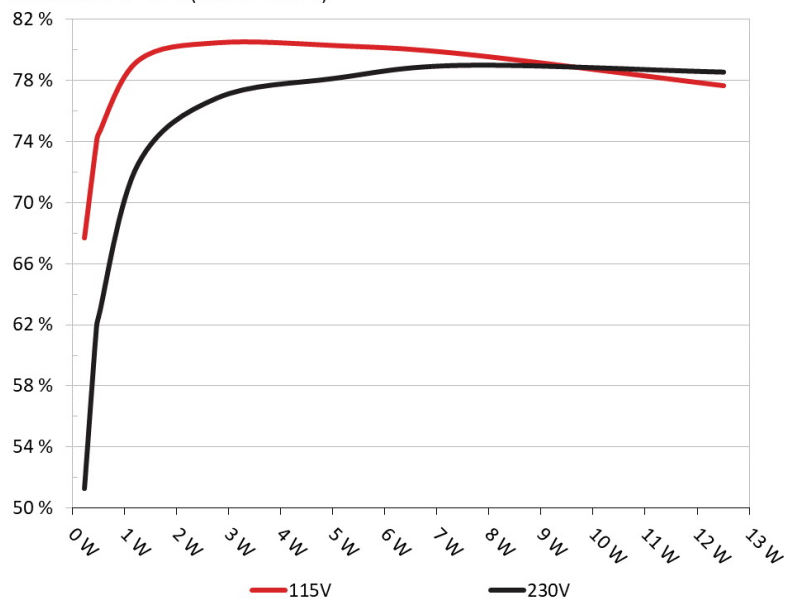
INFO

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: Enermax MarbleBron RGB 850

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	0.227W	67.704%	0.038
	5.049V	0.335W		115.16V
2	0.09A	0.454W	73.84%	0.068
	5.046V	0.615W		115.16V
3	0.55A	2.77W	80.459%	0.274
	5.038V	3.443W		115.16V
4	1A	5.03W	80.28%	0.358
	5.031V	6.266W		115.16V
5	1.5A	7.533W	79.715%	0.405
	5.023V	9.45W		115.16V
6	2.499A	12.507W	77.654%	0.453
	5.005V	16.106W		115.16V

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.227W	51.276%	0.015
	5.047V	0.443W		230.27V
2	0.09A	0.454W	61.685%	0.025
	5.047V	0.736W		230.27V
3	0.55A	2.769W	76.83%	0.113
	5.037V	3.604W		230.28V
4	1A	5.029W	78.125%	0.182
	5.03V	6.438W		230.28V
5	1.5A	7.533W	78.983%	0.239
	5.023V	9.538W		230.28V
6	2.499A	12.512W	78.537%	0.311
	5.007V	15.931W		230.27V

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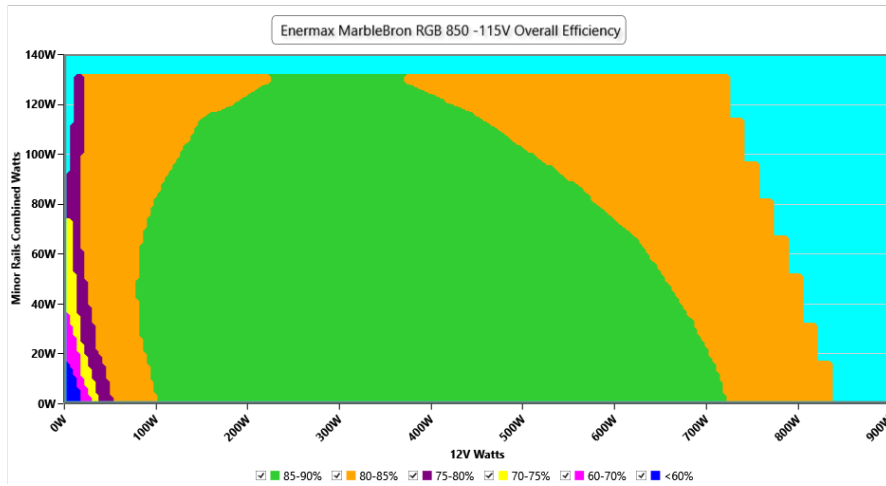
115V

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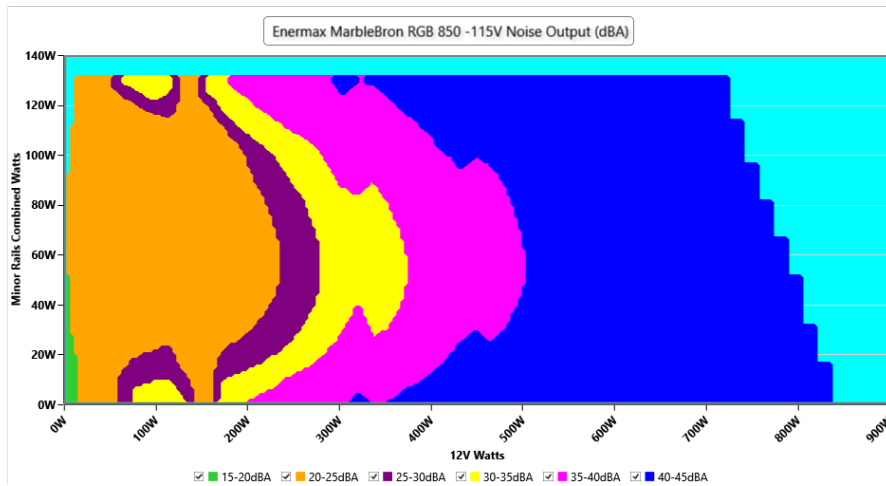
EFFICIENCY GRAPH 115V



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

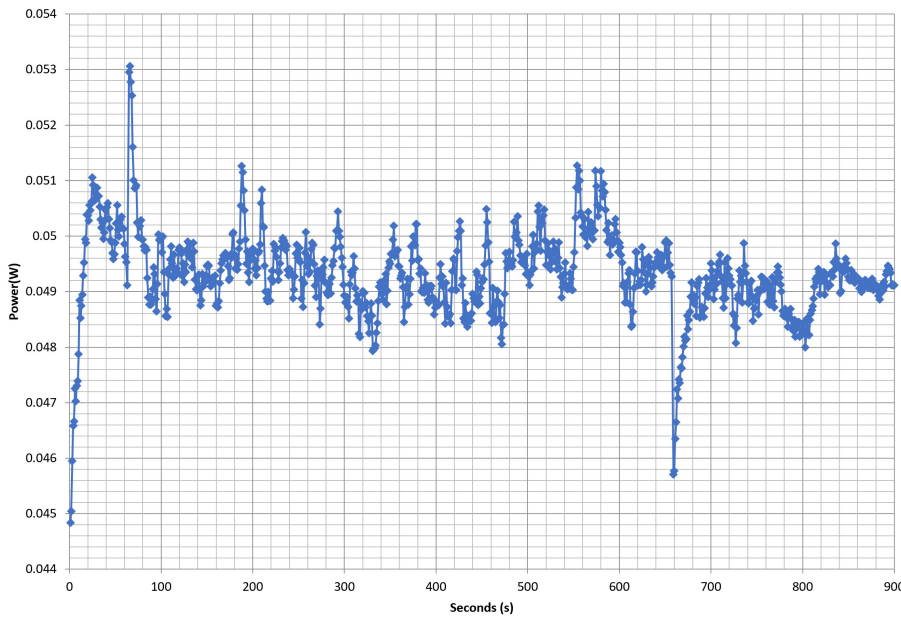
The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

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VAMPIRE POWER -115V

Power - 210801900044 - 11/01/2022 - 15:20



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%	5.224A	1.962A	1.931A	0.992A	84.99	83.406%	884	21.7	34.54°C	0.955
	12.134V	5.097V	3.417V	5.038V	101.899				38.7°C	115.16V
20%	11.470A	2.946A	2.901A	1.191A	169.923	87.199%	1011	25.4	35.49°C	0.959
	12.120V	5.093V	3.413V	5.036V	194.868				39.79°C	115.16V
30%	18.080A	3.439A	3.388A	1.39A	254.923	88.048%	1246	30.7	35.8°C	0.977
	12.106V	5.089V	3.409V	5.034V	289.528				40.34°C	115.16V
40%	24.713A	3.933A	3.876A	1.59A	340.003	88.033%	1774	41.0	36.11°C	0.986
	12.091V	5.086V	3.406V	5.032V	386.224				40.9°C	115.16V
50%	30.992A	4.918A	4.849A	1.789A	424.747	87.495%	1850	41.9	36.87°C	0.991
	12.076V	5.084V	3.403V	5.031V	485.452				42.01°C	115.15V
60%	37.265A	5.907A	5.832A	1.988A	509.262	86.886%	1849	41.9	37.43°C	0.993
	12.061V	5.08V	3.395V	5.03V	586.129				43.63°C	115.15V
70%	43.626A	6.902A	6.804A	2.188A	594.582	86.033%	1850	41.9	37.88°C	0.995
	12.045V	5.072V	3.395V	5.025V	691.107				44.98°C	115.14V
80%	50.007A	7.893A	7.78A	2.288A	679.407	84.974%	1850	41.9	38.21°C	0.996
	12.028V	5.069V	3.392V	5.025V	799.545				46.42°C	115.14V
90%	56.810A	8.386A	8.257A	2.388A	764.782	84.007%	1852	42.0	39.13°C	0.997
	12.010V	5.067V	3.389V	5.024V	910.383				48.25°C	115.13V
100%	63.575A	8.887A	8.768A	2.488A	849.515	82.341%	1846	41.8	39.76°C	0.997
	11.991V	5.063V	3.386V	5.022V	1031.706				49.89°C	115.13V
110%	70.099A	9.88A	9.839A	2.489A	934.918	80.832%	1848	41.8	40.62°C	0.998
	11.971V	5.06V	3.383V	5.021V	1156.621				51.52°C	115.12V
CL1	0.114A	15.393A	15.137A	0A	131.275	77.654%	1834	41.7	36.69°C	0.955
	12.157V	5.087V	3.408V	5.062V	169.051				41.86°C	115.18V
CL2	0.113A	19.644A	0A	0.001A	101.385	77.146%	1501	36.0	36.83°C	0.948
	12.157V	5.091V	3.41V	5.059V	131.419				44.06°C	115.18V
CL3	0.113A	0A	19.315A	0A	67.367	71.073%	1575	37.3	36.11°C	0.959
	12.150V	5.095V	3.416V	5.056V	94.786				45.22°C	115.18V
CL4	70.966A	0A	0A	0A	849.402	83.815%	1860	42.1	40.34°C	0.998
	11.969V	5.073V	3.393V	5.067V	1013.437				51.41°C	115.13V

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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	1.222A	0.49A	0.482A	0.198A	19.987	64.906%	878	21.3	33.05°C	0.941
	12.143V	5.1V	3.42V	5.049V	30.794				36.24°C	115.16V
40W	2.692A	0.686A	0.675A	0.297A	39.987	75.925%	878	21.3	33.67°C	0.965
	12.139V	5.099V	3.42V	5.048V	52.667				37.05°C	115.16V
60W	4.162A	0.883A	0.869A	0.396A	59.986	81.443%	880	21.3	34.32°C	0.981
	12.136V	5.098V	3.418V	5.047V	73.655				38.01°C	115.16V
80W	5.630A	1.079A	1.062A	0.495A	79.935	83.625%	881	21.3	34.47°C	0.959
	12.133V	5.098V	3.418V	5.046V	95.588				38.58°C	115.16V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	14.73mV	5.29mV	8.80mV	9.92mV	Pass
20% Load	10.68mV	5.28mV	9.25mV	9.51mV	Pass
30% Load	10.83mV	5.23mV	11.58mV	9.82mV	Pass
40% Load	11.34mV	5.29mV	11.78mV	10.22mV	Pass
50% Load	16.61mV	5.69mV	12.54mV	10.17mV	Pass
60% Load	12.60mV	5.95mV	13.50mV	11.08mV	Pass
70% Load	15.24mV	7.01mV	14.81mV	11.44mV	Pass
80% Load	19.69mV	7.93mV	19.77mV	12.09mV	Pass
90% Load	20.35mV	10.11mV	21.94mV	12.75mV	Pass
100% Load	23.81mV	10.98mV	26.80mV	14.94mV	Pass
110% Load	26.34mV	11.34mV	28.84mV	16.55mV	Pass
Crossload1	16.15mV	9.17mV	20.44mV	14.74mV	Pass
Crossload2	13.11mV	8.94mV	16.63mV	14.12mV	Pass
Crossload3	11.59mV	5.13mV	20.93mV	10.12mV	Pass
Crossload4	23.79mV	8.24mV	20.71mV	11.68mV	Pass

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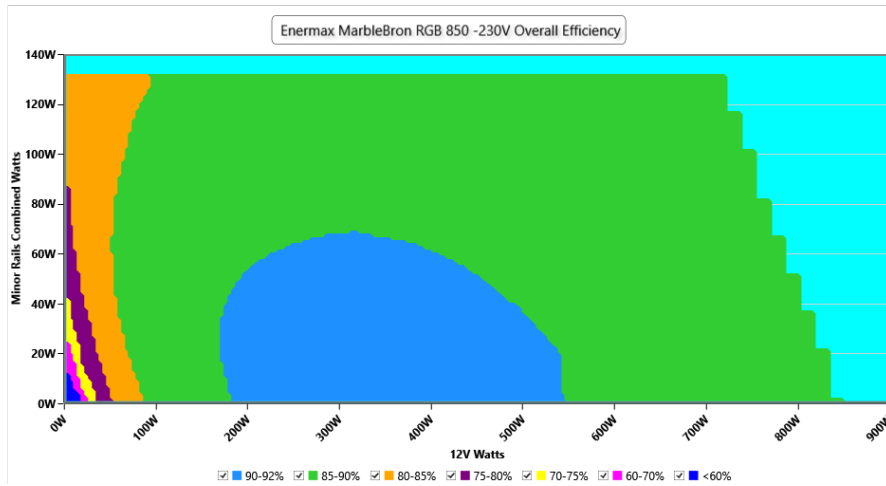
230V

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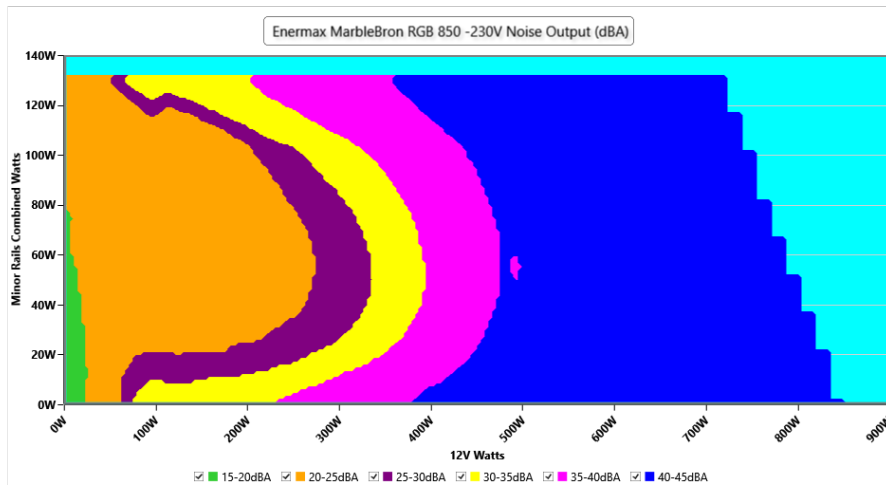
EFFICIENCY GRAPH 230V



INFO

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NOISE GRAPH 230V



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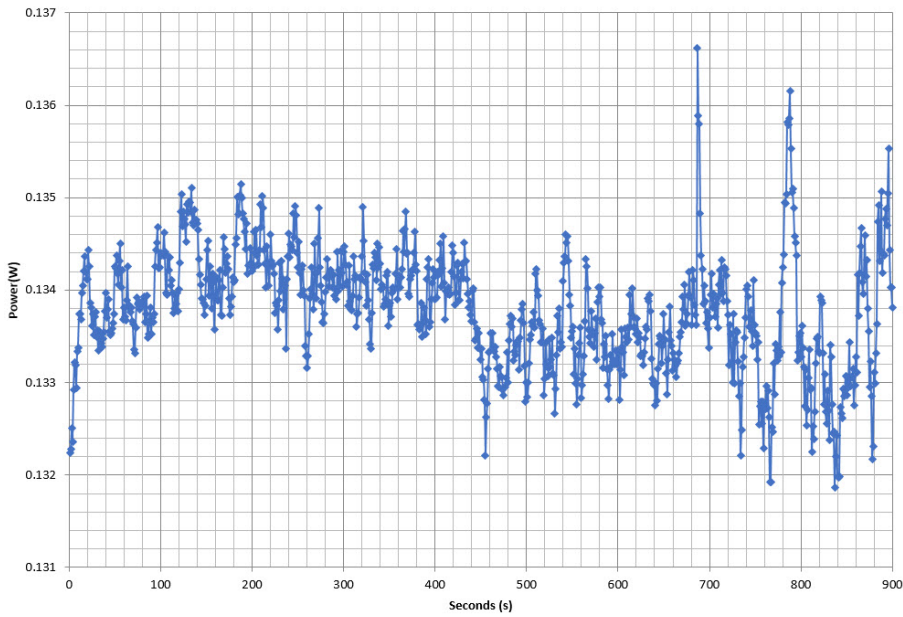
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VAMPIRE POWER -230V

Power - 210801900044 - 11/01/2022 - 15:20



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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%	5.224A	1.962A	1.931A	0.992A	84.99	84.81%	870	21.2	36.26°C	0.857
	12.135V	5.095V	3.417V	5.038V	100.212				40.5°C	230.24V
20%	11.469A	2.946A	2.9A	1.191A	169.912	88.766%	1344	33.1	36.32°C	0.902
	12.121V	5.092V	3.414V	5.036V	191.416				40.79°C	230.24V
30%	18.079A	3.44A	3.387A	1.39A	254.906	90.121%	1423	35.2	36.96°C	0.921
	12.106V	5.088V	3.41V	5.034V	282.85				41.74°C	230.25V
40%	24.712A	3.934A	3.875A	1.59A	339.989	90.324%	1727	39.9	37.41°C	0.939
	12.091V	5.085V	3.407V	5.031V	376.41				42.61°C	230.25V
50%	30.992A	4.921A	4.849A	1.789A	424.753	90.138%	1834	41.7	37.79°C	0.949
	12.076V	5.081V	3.403V	5.03V	471.226				43.38°C	230.26V
60%	37.267A	5.911A	5.826A	1.989A	509.285	89.754%	1838	41.7	38.01°C	0.955
	12.061V	5.076V	3.399V	5.028V	567.421				44.66°C	230.26V
70%	43.623A	6.902A	6.804A	2.188A	594.584	89.149%	1837	41.7	38.95°C	0.961
	12.046V	5.072V	3.395V	5.026V	666.957				46.14°C	230.26V
80%	50.009A	7.892A	7.778A	2.287A	679.42	88.438%	1833	41.7	39.08°C	0.966
	12.028V	5.07V	3.393V	5.026V	768.244				47.34°C	230.26V
90%	56.822A	8.386A	8.256A	2.387A	764.833	87.657%	1845	41.8	40.03°C	0.969
	12.009V	5.067V	3.39V	5.026V	872.525				49.44°C	230.27V
100%	63.588A	8.886A	8.766A	2.487A	849.564	86.689%	1839	41.7	40.18°C	0.972
	11.990V	5.064V	3.387V	5.024V	980.017				50.53°C	230.27V
110%	70.104A	9.881A	9.839A	2.487A	934.931	85.527%	1829	41.6	40.57°C	0.979
	11.971V	5.06V	3.383V	5.025V	1093.141				51.38°C	230.27V
CL1	0.114A	15.394A	15.136A	0A	131.277	79.427%	1823	41.5	36.81°C	0.898
	12.158V	5.086V	3.408V	5.062V	165.281				42.38°C	230.28V
CL2	0.113A	19.649A	0A	0.001A	101.383	78.691%	1405	35.0	34.77°C	0.878
	12.157V	5.089V	3.41V	5.059V	128.836				42.28°C	230.29V
CL3	0.113A	0A	19.315A	0A	67.368	72.217%	1644	38.7	36.14°C	0.85
	12.150V	5.095V	3.417V	5.056V	93.286				45.42°C	230.3V
CL4	70.985A	0A	0A	0A	849.428	87.703%	1842	41.8	39.99°C	0.974
	11.967V	5.074V	3.394V	5.068V	968.526				50.58°C	230.3V

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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	0.49A	0.482A	0.198A	19.988	67.664%	870	21.2	33.34°C	0.624
	12.144V	5.1V	3.421V	5.049V	29.539				36.37°C	230.23V
40W	2.692A	0.686A	0.675A	0.297A	39.988	77.574%	864	20.4	33.46°C	0.767
	12.140V	5.1V	3.42V	5.048V	51.549				36.65°C	230.24V
60W	4.162A	0.883A	0.869A	0.396A	59.986	81.976%	860	20.0	34.74°C	0.826
	12.138V	5.096V	3.418V	5.046V	73.174				38.26°C	230.23V
80W	5.628A	1.079A	1.062A	0.495A	79.925	84.891%	860	20.0	34.81°C	0.851
	12.134V	5.095V	3.417V	5.045V	94.151				38.6°C	230.24V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	12.71mV	5.08mV	8.19mV	9.16mV	Pass
20% Load	11.80mV	5.44mV	9.05mV	10.02mV	Pass
30% Load	12.00mV	5.29mV	10.82mV	9.72mV	Pass
40% Load	11.95mV	4.62mV	9.96mV	9.36mV	Pass
50% Load	17.01mV	5.44mV	11.33mV	10.12mV	Pass
60% Load	15.39mV	5.89mV	13.04mV	10.73mV	Pass
70% Load	17.67mV	7.47mV	16.38mV	11.64mV	Pass
80% Load	20.86mV	7.67mV	20.27mV	13.00mV	Pass
90% Load	23.04mV	8.99mV	23.36mV	13.00mV	Pass
100% Load	31.53mV	10.66mV	27.38mV	14.71mV	Pass
110% Load	31.04mV	12.07mV	28.95mV	16.23mV	Pass
Crossload1	16.30mV	9.40mV	21.19mV	14.86mV	Pass
Crossload2	11.75mV	9.20mV	16.08mV	15.38mV	Pass
Crossload3	10.93mV	5.23mV	20.63mV	9.61mV	Pass
Crossload4	28.51mV	8.26mV	20.76mV	11.01mV	Pass

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

Anex

Enermax MarbleBron RGB 850

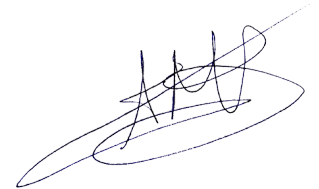


Top side

ENERMAX MARBLEBRON RGB						
Model/型號/型号		EMB850EWT-RGB				
Active PFC/主動式 PFC/主动式PFC						
AC Input 交流輸入/交流輸入		100-240VAC, 47-63Hz, 11-5.5A				
DC Output 直流輸出 直流輸出	+3.3V	+5V	+12V	-12V	+5Vsb	Total Power 總瓦數/總瓦數
	20A	20A	70A	0.3A	2.5A	
	130W 840W 3.6W 12.5W					850W
						
<small>Importer: Coolergiant Computers Handels GmbH / Address: Billrothstraße 92, 22119, Hamburg, Germany Importer: Enerpoint Computers France / Address: 6 Avenue des Marguerites, Bâtiment 19 Traine, 94380 Bonneuil-Sur-Marne Manufacturer: ENERMAX Technology Corp. / Address: 15F-2, No.888, Jingguo Rd., Taoyuan Dist., Taoyuan City 330, Taiwan</small>						
<small>CAUTION! Do not remove this cover! No user serviceable components inside! ACHTUNG! Bitte öffnen Sie Gehäuse niemals! Keine Geräteremontur. Avvertimento! Non può entrare nelle componenti. Προσοχή! Μην αφαιρείτε το κάλυμμα! Αποφύγετε την επισκευή του προϊόντος. 注意! 不可自行拆卸產品; 保持空氣流通口暢通。 注意! 不可自行拆卸產品; 保持空氣流通口暢通。 注意! 不可自行拆卸產品; 保持空氣流通口暢通。 注意! 不可自行拆卸產品; 保持空氣流通口暢通。</small>						
<small>Switching Power Supply 交換式電源供應器/電源供應器</small>						
<small>Made in China 中國製造/中國製造 製造商: 保銳科技股份有限公司</small>						
						
						

Power specifications label

CERTIFICATIONS 115V

Aristeidis Bitziopoulos
Lab Director

CERTIFICATIONS 230V



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