

Anex

Enermax Revolution D.F.12 850W

Lab ID#: EM85002391
Receipt Date: Feb 27, 2024
Test Date: Mar 15, 2024

Report: 24PS2391A
Report Date: Mar 22, 2024

DUT INFORMATION		DUT SPECIFICATIONS	
Brand	Enermax	Rated Voltage (Vrms)	100-240
Manufacturer (OEM)	RSY	Rated Current (Arms)	10
Series	Revolution D.F.12	Rated Frequency (Hz)	50-60
Model Number	ETV850G	Rated Power (W)	850
Serial Number	2412120180008	Type	ATX12V
DUT Notes		Cooling	120mm Double Ball Bearing Fan (ZFB122512M)
		Semi-Passive Operation	✓
		Cable Design	Fully Modular

TEST EQUIPMENT	
Electronic Loads	Chroma 63601-5 x2 Chroma 63600-2 63640-80-80 x10 63610-80-20
AC Sources	Chroma 6530, APM SP300VAC4000W-P
Power Analyzers	RS HMC8015, N4L PPA1530, N4L PPA5530
Oscilloscopes	Picoscope 4444, Rigol DS7014, 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, Keithley 2015 - THD
UPS	FSP Champ Tower 3kVA, CyberPower OLS3000E 3kVA
Isolation Transformer	4kVA

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Anex

Enermax Revolution D.F.12 850W

RESULTS

Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓
ALPM (Alternative Low Power Mode) compatible	✓
ATX v3.1 PSU Power Excursion	✓

115V

Average Efficiency	89.589%
Efficiency With 10W (≤500W) or 2% (>500W)	73.475
Average Efficiency 5VSB	78.959%
Standby Power Consumption (W)	0.0734000
Average PF	0.990
Avg Noise Output	37.87 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Standard+

230V

Average Efficiency	91.668%
Average Efficiency 5VSB	78.386%
Standby Power Consumption (W)	0.1460000
Average PF	0.949
Avg Noise Output	37.49 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Standard+

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	70.8	3	0.4
	Watts	100		849.6	15	4.8
Total Max. Power (W)		850				

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

Hold-Up Time (ms)	21
AC Loss to PWR_OK Hold Up Time (ms)	19.3
PWR_OK Inactive to DC Loss Delay (ms)	1.7

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PAGE 2/17

CABLES AND CONNECTORS

Modular Cables

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (600mm)	1	1	16-22AWG	No
4+4 pin EPS12V (700mm)	2	2	18AWG	No
6+2 pin PCIe (600mm)	3	3	18AWG	No
12+4 pin PCIe (600mm) (600W)	1	1	16-24AWG	No
SATA (450mm+150mm+150mm+150mm)	2	8	18AWG	No
4-pin Molex (450mm+150mm+150mm+150mm)	1	4	18AWG	No
AC Power Cord (1100mm) - C13 coupler	1	1	18AWG	-

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PAGE 3/17

Anex

Enermax Revolution D.F.12 850W

General Data	
Manufacturer (OEM)	RSY
PCB Type	Double-Sided
Primary Side	
Transient Filter	2x Y caps, 1x X caps, 2x CM chokes, 1x MOV
Inrush Protection	1x NTC Thermistor & Relay
Bridge Rectifier(s)	1x
APFC MOSFETs	2x WayOn WML28N60C4 (650V, 23A @ 25°C, Rds(on): 0.16Ohm)
APFC Boost Diode	1x Maplesemi MSP08065G1 (650V, 27A @ 25°C)
Bulk Cap(s)	2x Rubycon (420V, 270uF each or 540both, 3000h @ 105°C ,MXK)
Main Switchers	4x Convert CS13N50FF (500V, 13A , Rds(on): 0.46Ohm)
APFC Controller	1x Texas Instrument UCC28180 & SPN5003 (for no load consumption)
Topology	Primary side: APFC, Full-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	4x HUAYI Microelectronics HYG020N04 (40V, 220A @ 25°C, Rds(on): 2.3mOhm)
5V & 3.3V	DC-DC Converters: 4x Fets PWM Controller(s): 2x ANPEC APW7164
Filtering Capacitors	Electrolytic: 1x Rubycon (4-10,000 @ 105°C, YXJ), 3x Rubycon (3-6,000 @ 105°C, YXS), 1x Rubycon (6-10000 @ 105°C, ZLH), Polymer: 4x CAPS , 11x United Chemi-Con ,26x Unicon
Supervisor IC	1S313I-SAG
Fan Model	ZIC ZFB122512M (120mm, 12V, 0.25A, Double Ball Bearing Fan)
5VSB Circuit	
High Side Rectifier	1x Shenzhen Foster Semiconductor FIR4N70BLG (700V, 2.5A @ 100°C, Rds(on):3mOhm)
Standby PWM Controller	INFSitronix IN2P070C

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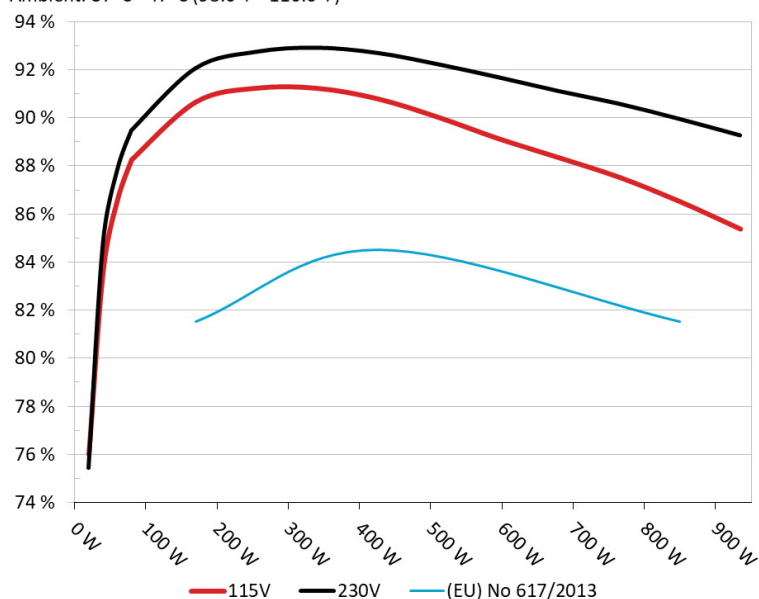
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PAGE 4/17

EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

Efficiency: Enermax Revolution D.F.12 850W

Ambient: 37°C - 47°C (98.6°F - 116.6°F)



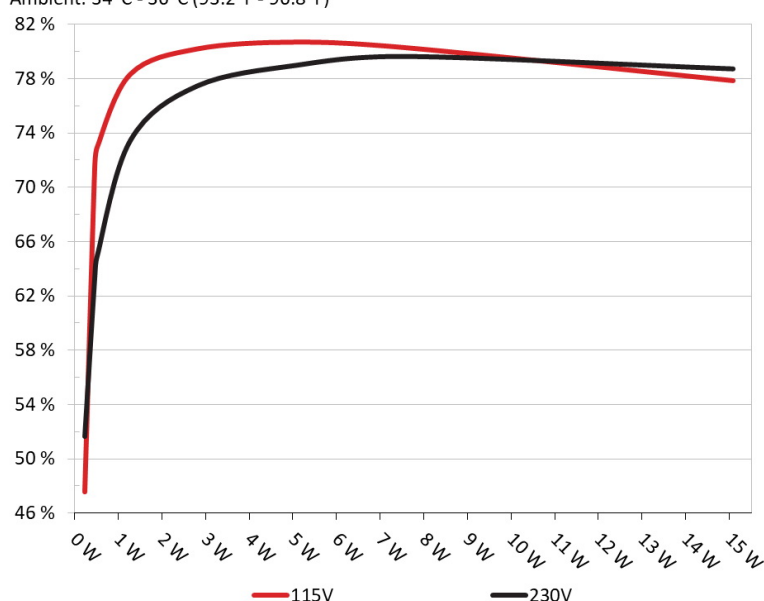
INFO

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: Enermax Revolution D.F.12 850W

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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Anex

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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.23W	48.033%	0.03
	5.113V	0.258W		115.17V
2	0.09A	0.46W	72.222%	0.073
	5.111V	0.637W		115.16V
3	0.55A	2.804W	80.663%	0.277
	5.098V	3.477W		115.17V
4	1A	5.087W	81.166%	0.35
	5.085V	6.267W		115.16V
5	1.5A	7.61W	80.75%	0.393
	5.072V	9.425W		115.16V
6	3A	15.092W	78.326%	0.452
	5.03V	19.27W		115.16V

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.23W	52.143%	0.015
	5.116V	0.442W		230.4V
2	0.09A	0.46W	63.973%	0.025
	5.112V	0.719W		230.4V
3	0.55A	2.804W	77.936%	0.117
	5.097V	3.597W		230.4V
4	1A	5.087W	79.465%	0.187
	5.085V	6.404W		230.4V
5	1.5A	7.609W	80.109%	0.24
	5.072V	9.497W		230.4V
6	3A	15.091W	79.198%	0.33
	5.03V	19.054W		230.4V

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PAGE 6/17

Anex

Enermax Revolution D.F.12 850W

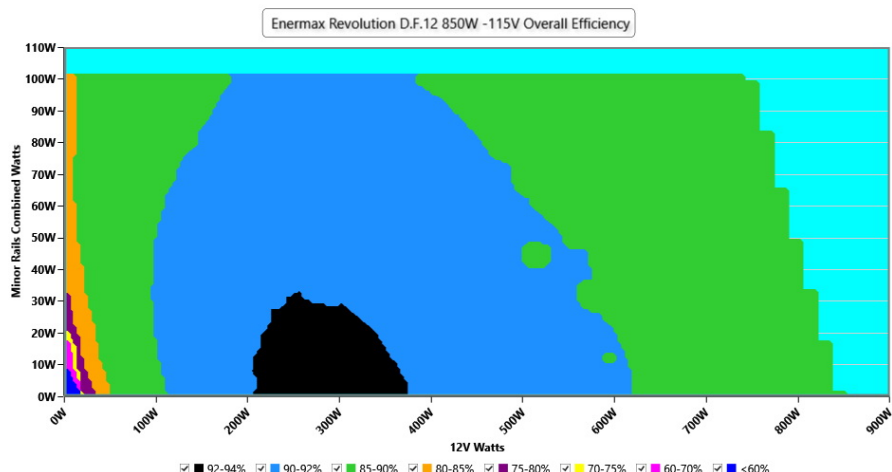
115V

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PAGE 7/17

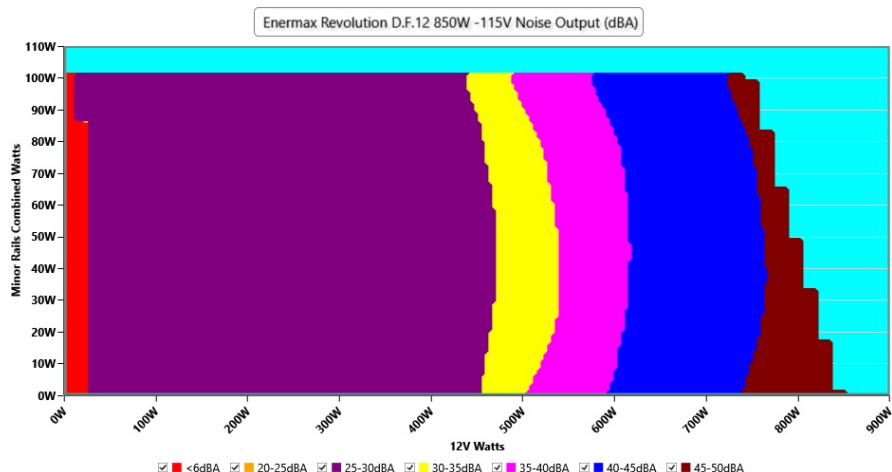
EFFICIENCY GRAPH 115V



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

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.12 V	115.10 V	113.85 V	115.15 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.97 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.415	1.415	1.340	1.416	1.490	PASS
Mains Voltage THD:	0.13 %	0.11 %	N/A	0.14 %	2.00 %	PASS
Real Power:	0.073 W	0.064 W	N/A	0.087 W	N/A	N/A
Apparent Power:	8.541 W	8.538 W	N/A	8.547 W	N/A	N/A
Power Factor:	0.009	N/A	N/A	N/A	N/A	N/A

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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PAGE 9/17

Anex

Enermax Revolution D.F.12 850W

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%	5.233A	2.01A	1.999A	0.984A	85.008	88.735%	0	<6.0	44.49°C	0.977
	12.116V	4.977V	3.302V	5.083V	95.8				40.48°C	115.16V
20%	11.482A	3.018A	3.005A	1.184A	169.979	91.136%	0	<6.0	45.01°C	0.985
	12.112V	4.971V	3.295V	5.071V	186.51				40.67°C	115.14V
30%	18.081A	3.526A	3.513A	1.384A	254.99	91.713%	916	27.1	41.18°C	0.991
	12.108V	4.965V	3.288V	5.059V	278.034				45.95°C	115.11V
40%	24.694A	4.033A	4.023A	1.586A	340.081	91.709%	916	27.1	41.76°C	0.993
	12.103V	4.96V	3.281V	5.047V	370.824				46.79°C	115.09V
50%	30.956A	5.048A	5.042A	1.788A	425.097	91.272%	916	27.1	42.28°C	0.994
	12.100V	4.954V	3.273V	5.034V	465.745				47.82°C	115.07V
60%	37.186A	6.066A	6.065A	1.992A	509.632	90.51%	1245	33.7	42.77°C	0.994
	12.097V	4.947V	3.265V	5.021V	563.068				48.79°C	115.04V
70%	43.483A	7.086A	7.093A	2.197A	594.964	89.614%	1609	41.5	43.19°C	0.994
	12.093V	4.941V	3.257V	5.008V	663.921				50.21°C	115.02V
80%	49.786A	8.109A	8.126A	2.301A	679.808	88.822%	1863	44.6	43.77°C	0.995
	12.089V	4.933V	3.249V	4.998V	765.358				51.86°C	114.99V
90%	56.493A	8.626A	8.637A	2.406A	765.264	88%	2091	47.2	44.48°C	0.995
	12.086V	4.928V	3.242V	4.988V	869.614				53.54°C	114.96V
100%	62.931A	9.146A	9.183A	3.023A	850.078	86.993%	2175	47.6	45.42°C	0.994
	12.082V	4.921V	3.234V	4.962V	977.18				55.51°C	114.93V
110%	69.241A	10.177A	10.324A	3.028A	934.666	85.855%	2173	47.6	46.75°C	0.994
	12.079V	4.914V	3.225V	4.954V	1088.655				57.69°C	114.92V
CL1	0.116A	12.14A	12.107A	0A	101.318	83.701%	921	27.2	40.46°C	0.978
	12.112V	4.959V	3.279V	5.104V	121.048				45.98°C	115.15V
CL2	0.116A	20.184A	0A	0A	101.407	81.995%	932	27.7	40.58°C	0.978
	12.113V	4.954V	3.3V	5.109V	123.675				47.61°C	115.15V
CL3	0.116A	0A	20.181A	0A	67.398	77.349%	914	27	40.07°C	0.978
	12.108V	4.974V	3.27V	5.102V	87.138				49.16°C	115.16V
CL4	70.352A	0A	0A	0A	849.798	87.788%	2183	47.7	45.23°C	0.994
	12.080V	4.94V	3.257V	5.062V	968.017				56.19°C	114.94V

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PAGE 10/17

Anex

Enermax Revolution D.F.12 850W

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	1.226A	0.502A	0.498A	0.196A	20.009	76.489%	0	<6.0	39.79°C	0.847
	12.116V	4.985V	3.31V	5.109V	26.16				36.75°C	115.18V
40W	2.698A	0.702A	0.698A	0.294A	40.006	84.096%	0	<6.0	41.14°C	0.926
	12.116V	4.983V	3.308V	5.105V	47.573				37.76°C	115.17V
60W	4.171A	0.904A	0.898A	0.392A	60.005	87.043%	0	<6.0	42.37°C	0.959
	12.115V	4.982V	3.307V	5.101V	68.936				38.56°C	115.17V
80W	5.640A	1.105A	1.099A	0.491A	79.974	89.16%	0	<6.0	43.24°C	0.977
	12.115V	4.98V	3.305V	5.098V	89.696				39.26°C	115.16V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	7.68mV	7.40mV	4.63mV	8.26mV	Pass
20% Load	8.24mV	7.91mV	5.04mV	9.27mV	Pass
30% Load	9.87mV	9.28mV	6.10mV	10.50mV	Pass
40% Load	11.15mV	10.20mV	6.76mV	10.34mV	Pass
50% Load	12.82mV	10.46mV	7.32mV	11.41mV	Pass
60% Load	14.86mV	10.92mV	8.34mV	11.87mV	Pass
70% Load	16.03mV	11.99mV	9.36mV	12.53mV	Pass
80% Load	16.13mV	13.93mV	13.22mV	13.55mV	Pass
90% Load	17.20mV	13.82mV	14.09mV	16.05mV	Pass
100% Load	23.82mV	15.40mV	15.61mV	18.18mV	Pass
110% Load	25.08mV	17.25mV	16.19mV	20.86mV	Pass
Crossload1	15.32mV	14.99mV	12.74mV	20.28mV	Pass
Crossload2	10.99mV	16.93mV	7.73mV	19.92mV	Pass
Crossload3	13.74mV	11.88mV	14.75mV	17.58mV	Pass
Crossload4	20.59mV	10.50mV	10.60mV	16.43mV	Pass

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PAGE 11/17

Anex

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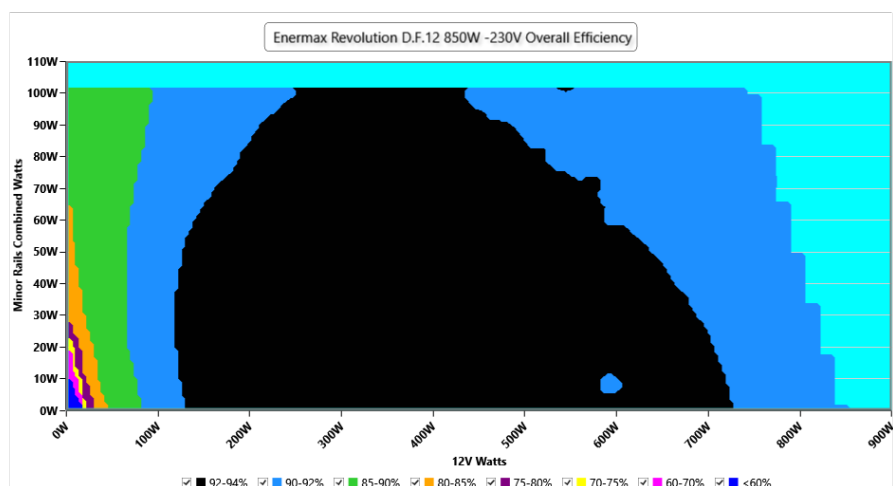
230V

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PAGE 12/17

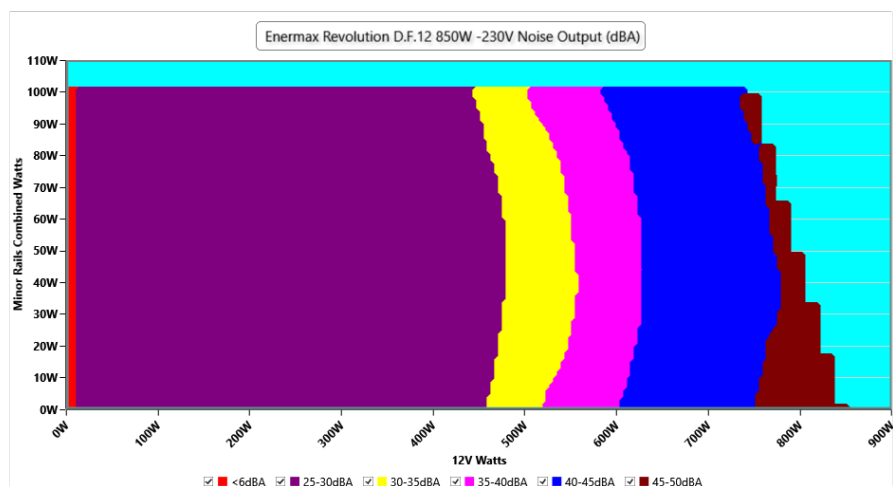
EFFICIENCY GRAPH 230V



INFO

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NOISE GRAPH 230V



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VAMPIRE POWER -230V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.34 V	230.33 V	227.70 V	230.37 V	232.30 V	PASS
Mains Frequency:	50.00 Hz	50.00 Hz	49.50 Hz	50.01 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:	0.146 W	0.125 W	N/A	0.188 W	N/A	N/A
Apparent Power:	28.599 W	28.586 W	N/A	28.613 W	N/A	N/A
Power Factor:	0.005	N/A	N/A	N/A	N/A	N/A

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PAGE 14/17

Anex

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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%	5.233A	2.009A	1.999A	0.984A	85.006	89.964%	0	<6.0	44.52°C	0.833
	12.116V	4.978V	3.302V	5.083V	94.487				40.46°C	230.38V
20%	11.481A	3.018A	3.005A	1.183A	169.964	92.545%	0	<6.0	44.98°C	0.931
	12.112V	4.971V	3.295V	5.071V	183.657				40.69°C	230.38V
30%	18.079A	3.525A	3.513A	1.384A	254.975	93.231%	917	27.1	41.23°C	0.959
	12.109V	4.966V	3.288V	5.059V	273.487				46.05°C	230.37V
40%	24.694A	4.033A	4.023A	1.586A	340.066	93.402%	918	27.1	41.74°C	0.97
	12.102V	4.96V	3.281V	5.047V	364.089				46.79°C	230.36V
50%	30.956A	5.048A	5.042A	1.788A	425.07	93.185%	918	27.1	42.19°C	0.971
	12.100V	4.954V	3.273V	5.034V	456.16				47.69°C	230.35V
60%	37.184A	6.066A	6.065A	1.992A	509.603	92.721%	1249	33.8	42.8°C	0.97
	12.096V	4.947V	3.265V	5.021V	549.611				48.87°C	230.35V
70%	43.484A	7.087A	7.094A	2.197A	594.945	92.176%	1581	41.3	43.34°C	0.969
	12.092V	4.94V	3.257V	5.008V	645.442				50.37°C	230.33V
80%	49.787A	8.109A	8.127A	2.302A	679.791	91.598%	1868	44.6	43.85°C	0.97
	12.089V	4.933V	3.248V	4.997V	742.145				52.1°C	230.33V
90%	56.491A	8.626A	8.638A	2.406A	765.246	91.069%	2104	47.1	44.64°C	0.97
	12.086V	4.927V	3.241V	4.988V	840.295				53.65°C	230.31V
100%	62.930A	9.146A	9.184A	3.024A	850.06	90.437%	2177	47.7	45.36°C	0.969
	12.082V	4.921V	3.234V	4.962V	939.954				55.44°C	230.3V
110%	69.233A	10.176A	10.323A	3.028A	934.579	89.762%	2184	47.7	46.57°C	0.968
	12.080V	4.914V	3.225V	4.954V	1041.178				57.55°C	230.3V
CL1	0.116A	12.14A	12.108A	0A	101.312	85.392%	922	27.3	41.32°C	0.872
	12.112V	4.959V	3.279V	5.103V	118.642				46.8°C	230.4V
CL2	0.116A	20.185A	0A	0A	101.405	83.214%	932	27.7	40.46°C	0.876
	12.113V	4.954V	3.3V	5.109V	121.862				47.54°C	230.4V
CL3	0.116A	0.017A	20.169A	0.011A	67.479	77.672%	911	27	40.22°C	0.822
	12.112V	4.973V	3.269V	5.103V	86.847				49.27°C	230.4V
CL4	70.366A	0A	0A	0A	849.787	91.269%	2190	47.8	45.62°C	0.969
	12.077V	4.94V	3.258V	5.063V	931.079				56.59°C	230.31V

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PAGE 15/17

Anex

Enermax Revolution D.F.12 850W

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	1.226A	0.501A	0.498A	0.196A	20.002	75.947%	0	<6.0	39.68°C	0.534
	12.114V	4.986V	3.31V	5.108V	26.335				36.67°C	230.37V
40W	2.698A	0.702A	0.698A	0.294A	40.001	85.234%	0	<6.0	40.78°C	0.69
	12.113V	4.985V	3.309V	5.104V	46.931				37.51°C	230.37V
60W	4.172A	0.903A	0.898A	0.392A	60	88.302%	0	<6.0	42.16°C	0.765
	12.113V	4.983V	3.307V	5.101V	67.949				38.67°C	230.37V
80W	5.640A	1.104A	1.098A	0.491A	79.956	90.21%	0	<6.0	42.87°C	0.821
	12.113V	4.981V	3.305V	5.097V	88.632				39.02°C	230.38V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	7.28mV	7.35mV	4.53mV	8.30mV	Pass
20% Load	8.55mV	8.01mV	5.49mV	10.09mV	Pass
30% Load	9.92mV	8.77mV	6.00mV	11.16mV	Pass
40% Load	11.19mV	9.28mV	6.82mV	9.99mV	Pass
50% Load	12.77mV	9.85mV	7.43mV	10.85mV	Pass
60% Load	14.09mV	11.02mV	8.14mV	12.02mV	Pass
70% Load	15.27mV	12.29mV	9.46mV	12.79mV	Pass
80% Load	15.82mV	13.82mV	13.17mV	12.79mV	Pass
90% Load	17.25mV	14.13mV	13.68mV	15.08mV	Pass
100% Load	25.60mV	16.01mV	16.32mV	17.22mV	Pass
110% Load	27.34mV	17.10mV	16.76mV	18.87mV	Pass
Crossload1	15.15mV	15.11mV	13.99mV	20.50mV	Pass
Crossload2	10.18mV	17.40mV	8.04mV	19.92mV	Pass
Crossload3	14.45mV	12.19mV	14.55mV	18.49mV	Pass
Crossload4	21.72mV	10.56mV	11.14mV	16.00mV	Pass

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PAGE 16/17

Anex

Enermax Revolution D.F.12 850W

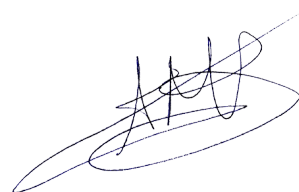


Top side

 ENERMAX		D.F. 12 REVOLUTION				
Model/型號/型号		ETV850G				
Active PFC/主動式PFC/主动式PFC						
AC Input 交流輸入/交流輸入		100-240VAC, 10A, 50-60Hz				
DC Output 直流輸出/直流輸出	+3.3V	+5V	+12V	-12V	+5Vsb	Total Power 總瓦數/总瓦数
	20A	20A	70.8A	0.4A	3A	
		100W	849.6W	4.8W	15W	850W
<div></div>						
Importer: Coolergiant Computers Handels GmbH / Address: Billbrookdeich 32, 22113 Hamburg, Germany Importeur: Enerpoint Computers France / Address: 6 Avenue des Marguerites, 94330 Bonneuil-sur-Marne, France						
<div><div><p>CAUTION! Do not remove this cover! No user serviceable components inside! ACHTUNG! Bitte Öffnen des Gehäuses selbst! Kein Eigenreparatur! Avertissement! Ne pas enlever cette couverture! Aucun composant réparable par l'utilisateur à l'intérieur! 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。</p></div><div><p>Switching Power Supply 交換式電源供應器/交換式電源供應器 Made in China 中國製造/中國製造 Manufacturer: ENERMAX Technology Corporation 製造商: 保銳科技股份有限公司/製造商: 保銳科技股份有限公司</p></div></div>						
<div><div><p>OK OK OK HI-POT BURN-IN</p></div><div><p>PN:  ETV850G SN: </p></div></div>						

Power specifications label

CERTIFICATIONS 115V

Aristeidis Bitziopoulos
Lab Director

CERTIFICATIONS 230V



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