

Anex

Cooler Master XG Plus 850 Platinum

Lab ID#: CM85002057
Receipt Date: Jun 28, 2022
Test Date: Sep 5, 2022

Report: 22PS2057A
Report Date: Sep 8, 2022

DUT INFORMATION	
Brand	Cooler Master
Manufacturer (OEM)	Huizhou Xin Hui Yuan Tech (Fusion Power)
Series	XG Plus Platinum
Model Number	MPG-8501-AFBAP
Serial Number	MPG8501AFBAPXU22214800002
DUT Notes	

DUT SPECIFICATIONS	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	12-6
Rated Frequency (Hz)	50-60
Rated Power (W)	850
Type	ATX12V
Cooling	135mm Hydro Dynamic Bearing Fan (DF1352512FDHN)
Semi-Passive Operation	X
Cable Design	Fully 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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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	✓

115V

Average Efficiency	89.655%
Efficiency With 10W (≤500W) or 2% (>500W)	60.673
Average Efficiency 5VSB	81.788%
Standby Power Consumption (W)	0.0487000
Average PF	0.983
Avg Noise Output	27.05 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A-

230V

Average Efficiency	91.192%
Average Efficiency 5VSB	80.994%
Standby Power Consumption (W)	0.0860000
Average PF	0.948
Avg Noise Output	27.05 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A-

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	70.8	3	0.3
	Watts	100		849.6	15	3.6
Total Max. Power (W)		850				

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

Hold-Up Time (ms)	20.1
AC Loss to PWR_OK Hold Up Time (ms)	15.8
PWR_OK Inactive to DC Loss Delay (ms)	4.3

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CABLES AND CONNECTORS

Modular Cables

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (650mm)	1	1	18AWG	No
4+4 pin EPS12V (650mm)	1	1	18AWG	No
8 pin EPS12V (650mm)	1	1	18AWG	No
6+2 pin PCIe (550mm+120mm)	3	6	16-18AWG	No
SATA (510mm+120mm+120mm+120mm)	3	12	18AWG	No
4 pin Molex (500mm+120mm+120mm+120mm)	1	4	18AWG	No
USB Cable 10 pin (810mm)	1	1	24AWG	No
AC Power Cord (1400mm) - C13 coupler	1	1	18AWG	-

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General Data	
Manufacturer (OEM)	Huizhou Xin Hui Yuan Tech (Fusion Power)
PCB Type	Double Sided
Primary Side	
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Bridge Rectifier(s)	2x GBU15KL (800 V, 15 A @ 100 °C)
Inrush Current Protection	NTC Thermistor (MF72-5D15) (5 Ohm) & Relay
APFC MOSFETs	2x NCE Power NCE65TF099 (650 V, 24 A @ 100 °C, Rds (on): 0.109 Ohm)
APFC Boost Diode	1x Panjit PCDP0865G1 (650 V, 8 A @ 140 °C)
Bulk Cap(s)	1x Nippon Chemi-Con (450 V, 680 uF, 2,000 h @ 105 °C, KMZ)
Main Switchers	4x NCE Power NCE65TF130 (650 V, 18 A @ 100 °C, Rds (on): 0.140 Ohm)
APFC Controller	Champion CM6500UNIX
Switching Controller	Champion CM6901T6X
Topology	Primary side: APFC, Full-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12 V MOSFETs	4x Infineon BSC010N04LS (40 V, 178 A @ 100 °C, Rds (on): 1 mOhm)
+5 V & +3.3 V	DC-DC Converters: 2x Excelliance MOS EMB04N03A (30 V, 55 A @ 100 °C, Rds (on): 4 mOhm) & 2x Excelliance MOS EMB07N03 (30 V, 17 A @ 100 °C, Rds (on): 7 mOhm) PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic: 2x Nippon Chemi-Con (105°C, W), 3x Nippon Chemi-Con (2 - 5,000 h @ 105 °C, KZE), 8x Nippon Chemi-Con (4 - 10,000 h @ 105 °C, KY, 2x Nippon Chemi-Con (5 - 6,000 h @ 105 °C, KZH) Polymer: 23x FPCAP
Supervisor IC	IN1S313I-SAG
Fan Model	Cooler Master DF1352512FDHN (135 mm, 12 V, 0.60 A, Fluid Dynamic Bearing Fan)
5VSB Circuit	
Rectifier(s)	1x 45R10S SBR
Standby PWM Controller	Excelliance MOS Corp EM8569C

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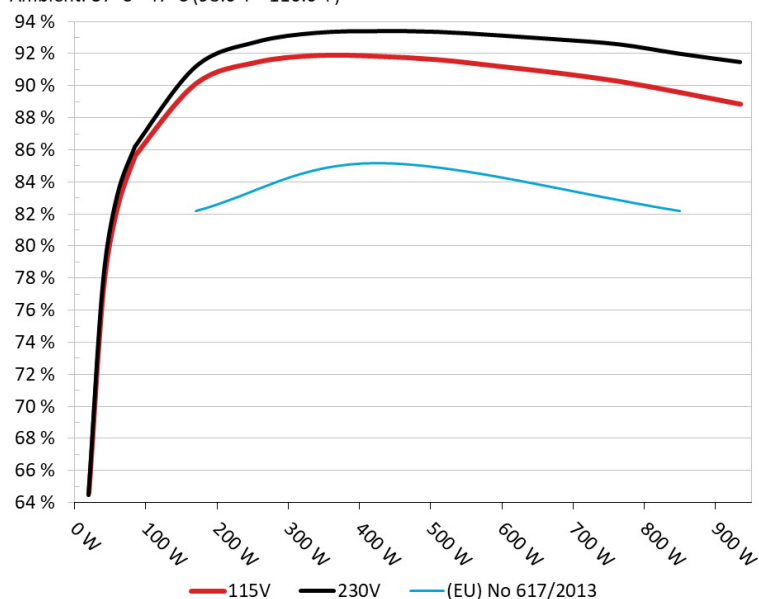
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EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

Efficiency: Cooler Master XG Plus 850 Platinum

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



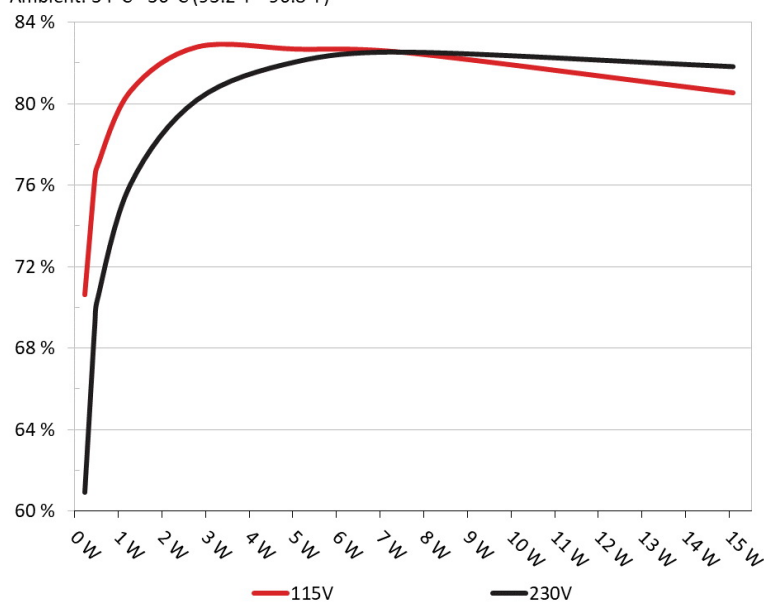
INFO

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: Cooler Master XG Plus 850 Platinum

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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Cooler Master XG Plus 850 Platinum

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

5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts	
1	0.045A	0.23W	70.615%	0.054
	5.105V	0.326W		115.16V
2	0.09A	0.459W	76.337%	0.098
	5.105V	0.601W		115.16V
3	0.55A	2.801W	82.779%	0.336
	5.093V	3.384W		115.16V
4	1A	5.081W	82.673%	0.413
	5.082V	6.146W		115.17V
5	1.5A	7.603W	82.497%	0.448
	5.069V	9.216W		115.17V
6	2.999A	15.083W	80.53%	0.501
	5.029V	18.73W		115.16V

Test

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.23W	60.916%	0.019
	5.105V	0.378W		230.34V
2	0.09A	0.459W	69.178%	0.033
	5.104V	0.663W		230.34V
3	0.55A	2.801W	80.206%	0.157
	5.093V	3.493W		230.34V
4	1A	5.081W	82.086%	0.237
	5.081V	6.19W		230.34V
5	1.5A	7.602W	82.553%	0.296
	5.068V	9.21W		230.34V
6	2.999A	15.082W	81.84%	0.378
	5.029V	18.428W		230.34V

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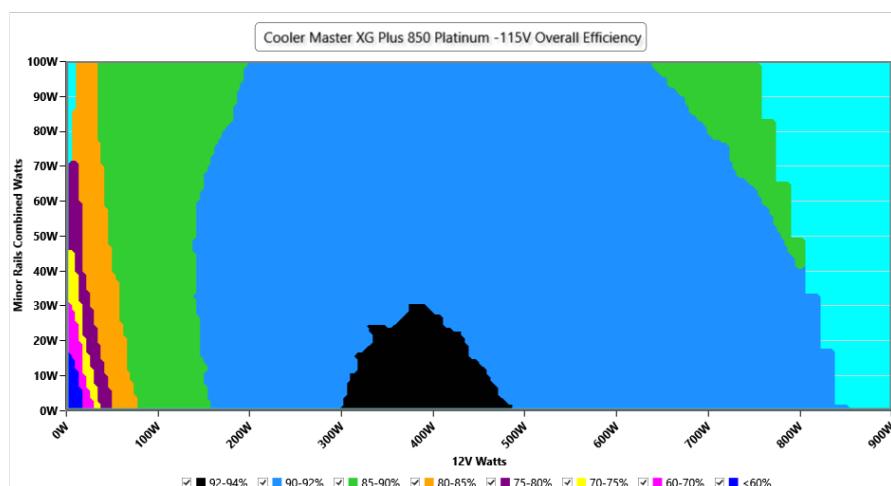
115V

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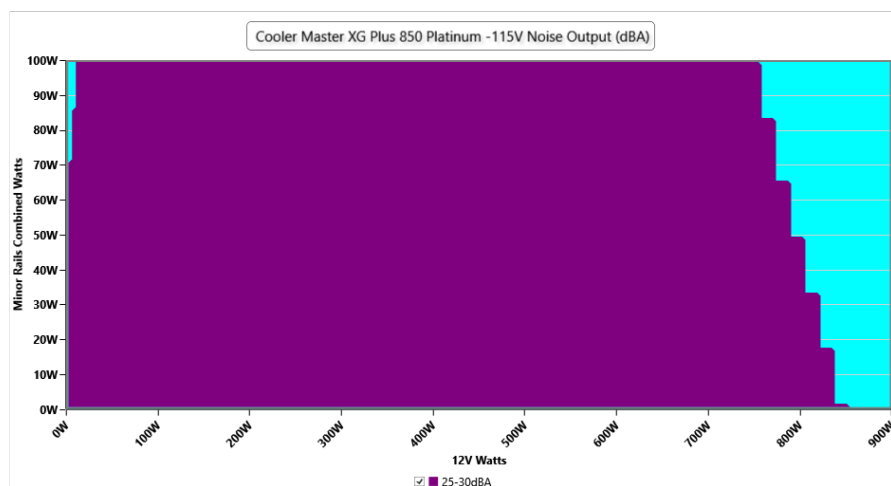
EFFICIENCY GRAPH 115V



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

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.17 V	115.13 V	113.85 V	115.20 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.96 Hz	59.40 Hz	60.03 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.416	1.415	1.340	1.418	1.490	PASS
Mains Voltage THD:	0.13 %	0.10 %	N/A	0.17 %	2.00 %	PASS
Real Power:	0.049 W	0.042 W	N/A	0.056 W	N/A	N/A
Apparent Power:	6.121 W	6.047 W	N/A	6.199 W	N/A	N/A
Power Factor:	0.008	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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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%	5.212A	1.983A	1.985A	0.987A	84.996	85.381%	706	27.0	40.48°C	0.981
	12.165V	5.044V	3.325V	5.068V	99.545				44.76°C	115.15V
20%	11.430A	2.975A	2.979A	1.187A	169.933	89.944%	710	27.2	41.24°C	0.989
	12.164V	5.042V	3.323V	5.056V	188.93				45.84°C	115.13V
30%	17.990A	3.472A	3.476A	1.388A	254.932	91.283%	714	27.2	41.76°C	0.987
	12.167V	5.04V	3.322V	5.043V	279.281				46.88°C	115.1V
40%	24.557A	3.97A	3.975A	1.59A	340.017	91.709%	714	27.2	42.74°C	0.985
	12.168V	5.038V	3.321V	5.031V	370.755				48.31°C	115.08V
50%	30.774A	4.965A	4.971A	1.793A	424.903	91.661%	715	27.2	42.82°C	0.982
	12.166V	5.036V	3.32V	5.02V	463.558				49.16°C	115.05V
60%	36.957A	5.961A	5.968A	1.997A	509.424	91.449%	718	27.7	43.56°C	0.983
	12.166V	5.034V	3.318V	5.008V	557.057				50.64°C	115.03V
70%	43.203A	6.958A	6.966A	2.202A	594.717	91.037%	720	27.7	43.71°C	0.984
	12.166V	5.031V	3.316V	4.995V	653.271				51.29°C	115V
80%	49.467A	7.956A	7.962A	2.306A	679.496	90.609%	720	27.7	44.52°C	0.986
	12.162V	5.029V	3.315V	4.986V	749.914				52.55°C	114.97V
90%	56.088A	8.454A	8.448A	2.412A	764.944	90.09%	792	29.9	45.19°C	0.988
	12.168V	5.027V	3.313V	4.975V	849.097				54.29°C	114.94V
100%	62.458A	8.956A	8.964A	3.029A	849.76	89.4%	1008	35.8	45.55°C	0.989
	12.169V	5.024V	3.312V	4.952V	950.51				55.65°C	114.91V
110%	68.720A	9.956A	10.055A	3.033A	934.359	88.668%	1270	41.8	46.76°C	0.99
	12.167V	5.022V	3.311V	4.945V	1053.767				57.63°C	114.87V
CL1	0.115A	11.944A	11.956A	0A	101.286	82.914%	720	27.7	42.34°C	0.981
	12.193V	5.04V	3.32V	5.08V	122.161				48.83°C	115.14V
CL2	0.113A	19.822A	0A	0A	101.388	80.652%	717	27.5	43.84°C	0.982
	12.187V	5.045V	3.319V	5.087V	125.703				51.05°C	115.14V
CL3	0.113A	0A	19.853A	0A	67.374	75.747%	714	27.2	44.3°C	0.974
	12.179V	5.039V	3.324V	5.082V	88.948				52.55°C	115.15V
CL4	69.841A	0A	0A	0A	849.568	90.156%	917	33.6	45.05°C	0.988
	12.165V	5.031V	3.317V	5.041V	942.322				55.01°C	114.92V

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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	1.221A	0.495A	0.496A	0.196A	19.994	64.374%	700	27.0	37.01°C	0.883
	12.156V	5.046V	3.327V	5.096V	31.069				40.1°C	115.17V
40W	2.688A	0.694A	0.695A	0.295A	39.994	76.951%	703	26.9	37.62°C	0.942
	12.158V	5.045V	3.326V	5.091V	51.974				41.01°C	115.17V
60W	4.154A	0.892A	0.893A	0.393A	59.993	82.194%	704	26.9	38.7°C	0.968
	12.162V	5.045V	3.326V	5.087V	72.993				42.42°C	115.16V
80W	5.617A	1.09A	1.092A	0.492A	79.945	85.462%	704	26.9	39.12°C	0.98
	12.162V	5.045V	3.325V	5.083V	93.545				43.1°C	115.15V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	28.13mV	13.72mV	10.67mV	28.39mV	Pass
20% Load	36.08mV	11.89mV	11.42mV	35.57mV	Pass
30% Load	24.40mV	11.58mV	10.62mV	28.84mV	Pass
40% Load	18.26mV	8.94mV	8.59mV	10.48mV	Pass
50% Load	34.88mV	14.89mV	12.99mV	37.75mV	Pass
60% Load	31.24mV	15.25mV	11.27mV	34.05mV	Pass
70% Load	17.11mV	8.79mV	9.35mV	12.20mV	Pass
80% Load	17.37mV	8.79mV	11.42mV	11.94mV	Pass
90% Load	31.09mV	16.72mV	14.15mV	32.64mV	Pass
100% Load	28.98mV	9.87mV	14.33mV	17.26mV	Pass
110% Load	30.09mV	10.54mV	14.22mV	17.75mV	Pass
Crossload1	19.34mV	10.08mV	14.78mV	13.61mV	Pass
Crossload2	27.39mV	16.62mV	10.87mV	29.45mV	Pass
Crossload3	27.80mV	17.02mV	17.69mV	31.78mV	Pass
Crossload4	28.00mV	9.53mV	9.95mV	15.48mV	Pass

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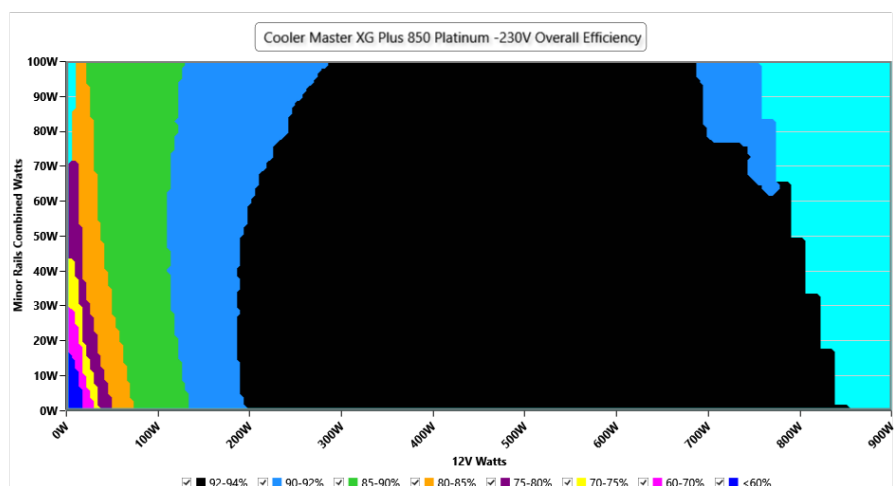
230V

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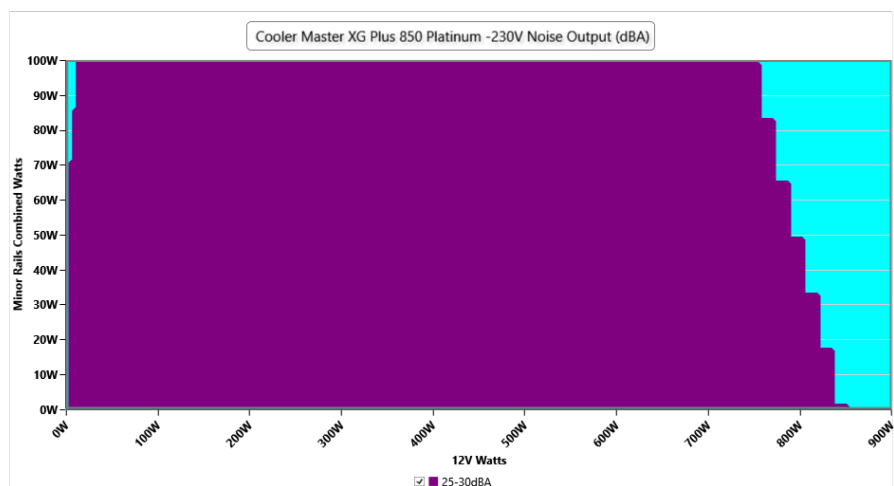
EFFICIENCY GRAPH 230V



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 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

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VAMPIRE POWER -230V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.34 V	230.23 V	227.70 V	230.38 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:	1.416	1.415	1.340	1.417	1.490	PASS
Mains Voltage THD:	0.12 %	0.10 %	N/A	0.20 %	2.00 %	PASS
Real Power:	0.086 W	0.075 W	N/A	0.108 W	N/A	N/A
Apparent Power:	20.567 W	20.402 W	N/A	20.736 W	N/A	N/A
Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A

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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%	5.211A	1.983A	1.985A	0.987A	84.997	86.09%	706	27.0	40.74°C	0.852
	12.165V	5.044V	3.325V	5.067V	98.733				44.96°C	230.35V
20%	11.432A	2.976A	2.979A	1.187A	169.954	90.965%	708	26.9	41.12°C	0.926
	12.164V	5.041V	3.323V	5.055V	186.841				45.71°C	230.33V
30%	17.997A	3.473A	3.477A	1.388A	254.963	92.513%	711	27.2	41.79°C	0.952
	12.164V	5.039V	3.322V	5.044V	275.605				46.83°C	230.32V
40%	24.573A	3.971A	3.976A	1.59A	340.05	93.088%	710	27.2	41.84°C	0.964
	12.161V	5.037V	3.321V	5.032V	365.295				47.31°C	230.31V
50%	30.789A	4.966A	4.972A	1.793A	424.933	93.192%	715	27.2	42.52°C	0.968
	12.161V	5.035V	3.319V	5.02V	455.973				48.48°C	230.3V
60%	36.964A	5.962A	5.969A	1.997A	509.442	93.147%	716	27.5	42.9°C	0.972
	12.164V	5.033V	3.318V	5.008V	546.921				49.57°C	230.29V
70%	43.212A	6.959A	6.967A	2.202A	594.734	92.93%	719	27.7	43.14°C	0.973
	12.164V	5.031V	3.316V	4.996V	639.99				50.23°C	230.27V
80%	49.454A	7.957A	7.962A	2.306A	679.568	92.672%	722	27.8	43.66°C	0.975
	12.166V	5.029V	3.315V	4.986V	733.302				51.77°C	230.26V
90%	56.098A	8.455A	8.506A	2.411A	764.96	92.365%	734	28.3	44.08°C	0.976
	12.166V	5.027V	3.293V	4.977V	828.191				53.28°C	230.25V
100%	62.473A	8.956A	9.336A	3.028A	849.743	91.779%	1012	36.0	45.71°C	0.977
	12.166V	5.024V	3.18V	4.954V	925.856				55.81°C	230.23V
110%	68.738A	9.956A	10.552A	3.032A	934.332	91.264%	1207	40.6	46.73°C	0.978
	12.163V	5.022V	3.156V	4.947V	1023.768				57.62°C	230.22V
CL1	0.115A	11.944A	11.956A	0A	101.281	83.791%	714	27.2	42.63°C	0.884
	12.184V	5.04V	3.319V	5.082V	120.874				48.09°C	230.34V
CL2	0.113A	19.822A	0A	0A	101.383	81.478%	710	27.2	43.5°C	0.887
	12.175V	5.045V	3.319V	5.089V	124.432				50.72°C	230.34V
CL3	0.113A	0A	19.854A	0A	67.369	75.904%	708	26.9	44.03°C	0.832
	12.168V	5.038V	3.324V	5.084V	88.735				52.29°C	230.34V
CL4	69.883A	0A	0A	0A	849.466	92.711%	723	27.8	45.4°C	0.976
	12.156V	5.031V	3.317V	5.044V	916.247				55.39°C	230.24V

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Anex

Cooler Master XG Plus 850 Platinum

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	1.221A	0.495A	0.496A	0.196A	19.997	64.252%	703	26.9	36.75°C	0.614
	12.160V	5.046V	3.326V	5.094V	31.119				39.83°C	230.35V
40W	2.688A	0.694A	0.695A	0.295A	39.995	77.424%	702	27	37.89°C	0.721
	12.159V	5.045V	3.326V	5.09V	51.66				41.23°C	230.35V
60W	4.155A	0.892A	0.893A	0.393A	59.994	82.904%	705	26.9	38.48°C	0.793
	12.159V	5.045V	3.325V	5.086V	72.365				42.01°C	230.35V
80W	5.617A	1.09A	1.092A	0.492A	79.955	85.988%	707	27	40.4°C	0.84
	12.163V	5.044V	3.325V	5.082V	92.986				44.19°C	230.35V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	12.43mV	8.03mV	8.49mV	10.02mV	Pass
20% Load	14.86mV	7.98mV	8.64mV	10.12mV	Pass
30% Load	35.54mV	8.18mV	8.95mV	41.69mV	Pass
40% Load	31.75mV	8.59mV	9.00mV	36.63mV	Pass
50% Load	29.01mV	9.15mV	9.60mV	35.82mV	Pass
60% Load	31.69mV	8.59mV	9.35mV	37.90mV	Pass
70% Load	33.01mV	9.20mV	9.61mV	37.54mV	Pass
80% Load	18.43mV	8.94mV	13.70mV	11.29mV	Pass
90% Load	19.79mV	10.01mV	12.84mV	12.55mV	Pass
100% Load	30.01mV	9.86mV	13.28mV	14.46mV	Pass
110% Load	31.58mV	11.08mV	14.14mV	15.20mV	Pass
Crossload1	20.13mV	10.80mV	13.88mV	13.23mV	Pass
Crossload2	13.52mV	11.64mV	9.96mV	12.60mV	Pass
Crossload3	11.49mV	10.72mV	15.82mV	11.23mV	Pass
Crossload4	28.93mV	8.75mV	9.11mV	15.64mV	Pass

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Anex

Cooler Master XG Plus 850 Platinum



Top side

850W MODEL / 型號 / 型号 : MPG-8501-AFBAP Switching Power Supply 交換式電源供應器 / 开关电源					
AC INPUT	100-240V~, 12-6A, 50-60Hz				
交流輸入	200-240V~, 6A, 50-60Hz, For Korea Use Only				
交流輸入	200-240V~, 6A, 50-60Hz, 适用于中国地区使用				
DC OUTPUT	+5V	+3.3V	+12V	-12V	+5VSB
直流輸出/直流輸出	20A	20A	70.8A	0.3A	3A
TOTAL POWER	100W	849.6W	3.6W	15W	
總功率/总功率	850W				
 CAUTION! / 警告 / ATTENTION ■ HAZARDOUS VOLTAGE INSIDE / 內有危險電壓 / 內有危險電壓 / Tension dangereuse à l'intérieur ■ DO NOT OPEN POWER SUPPLY UNIT. / 請勿打開機殼 / 請勿打開機殼 / Ne pas ouvrir l'alimentation ■ SELECT THE RIGHT INPUT VOLTAGE. / 選擇正確的輸入電壓 / 選擇正確的輸入電壓 / Sélectionnez la bonne tension d'entrée ■ WARRANTY VOID IF SECURITY SEAL IS DAMAGED, REMOVED, OR LOST / 如果封條貼紙被移動、遺失或損壞，本開關電源保固將失效 / 如果封條貼紙被移動、遺失或損壞，本開關電源保固將失效 / Annulation de la garantie si le sceau est endommagé, retiré ou perdu ■ attention ne pas ouvrir l'alimentation MADE IN CHINA / 中國製造 / 中國製造 ■ Cooler Master Technology Inc. 製造商：酷碼科技股份有限公司 / 製造商：酷碼科技股份有限公司					

Power specifications label

CERTIFICATIONS 115V



CERTIFICATIONS 230V



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