

Anex

Cooler Master XG 650

Lab ID#: CM65001890
Receipt Date: Aug 3, 2021
Test Date: Aug 30, 2021

Report: 21PS1890A

Report Date: Aug 31, 2021

DUT INFORMATION

Brand	Cooler Master
Manufacturer (OEM)	Huizhou Xin Hui Yuan Tech (Fusion Power)
Series	XG
Model Number	MPG-6501-AFBAP
Serial Number	
DUT Notes	

DUT SPECIFICATIONS

Rated Voltage (Vrms)	100-240
Rated Current (Arms)	8-4
Rated Frequency (Hz)	50-60
Rated Power (W)	650
Type	ATX12V
Cooling	140mm Fluid Dynamic Bearing Fan (DWPH EFC-14E12D)
Semi-Passive Operation	✓ (selectable)
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	89.745%
Efficiency With 10W (≤500W) or 2% (>500W)	64.732
Average Efficiency 5VSB	82.023%
Standby Power Consumption (W)	0.0476001
Average PF	0.986
Avg Noise Output	17.49 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A+

230V

Average Efficiency	91.657%
Average Efficiency 5VSB	81.106%
Standby Power Consumption (W)	0.0907636
Average PF	0.943
Avg Noise Output	16.68 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A+

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	54.1	3	0.3
	Watts	100		649.2	15	3.6
Total Max. Power (W)		650				

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

Hold-Up Time (ms)	24.2
AC Loss to PWR_OK Hold Up Time (ms)	20.2
PWR_OK Inactive to DC Loss Delay (ms)	4

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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+125mm)	2	4	16-18AWG	No
SATA (500mm+125mm+125mm+125mm)	2	8	18AWG	No
4 pin Molex (500mm+125mm+125mm+125mm)	1	4	18AWG	No

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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
Inrush Protection	1x NTC Thermistor MF72-5D15 (5 Ohm) & Relay
Bridge Rectifier(s)	2x MCC GBU15KL (800V, 15A @ 100°C)
APFC MOSFETs	2x NCE Power NCE65TF130 (650V, 18A @ 100°C, Rds(on): 0.130Ohm)
APFC Boost Diode	1x CDP0865G1
Bulk Cap(s)	1x TK (450V, 470uF, 2,000h @ 105°C, LGW)
Main Switchers	4x NCE Power NCE65T180F (650V, 13.2A @ 100°C, Rds(on): 0.180Ohm)
Digital Controllers	Champion CM6500UNX
MCU	Champion CM6901T6X
Topology	Primary side: APFC, Full-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters

Secondary Side

+12V MOSFETs	4x Excelliance MOS EMP16N04HS (40V, 100A @ 100°C, Rds(on): 1.6mOhm)
5V & 3.3V	DC-DC Converters: 2x Excelliance MOS EMB04N03A (30V, 55A @ 100°C, Rds(on): 4mOhm) & 2x Excelliance MOS EMB07N03 (30V, 17A @ 100°C, Rds(on): 7mOhm) PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic: 2x Nippon Chemi-Con (105°C, W), 4x Nippon Chemi-Con (2-5,000h @ 105°C, KZE), 5x Nippon Chemi-Con (4-10,000h @ 105°C, KY), 2x Nippon Chemi-Con (5-6,000h @ 105°C, KZH) Polymer: 21x FPCAP
Supervisor IC	IN1S313I-SAG
Fan Model	DWPH EFC-14E12D (140mm, 12V, 0.80A, Fluid Dynamic Bearing Fan)

5VSB Circuit

Rectifier	1x 45R10C SBR
Standby PWM Controller	Excelliance MOS EM8569C

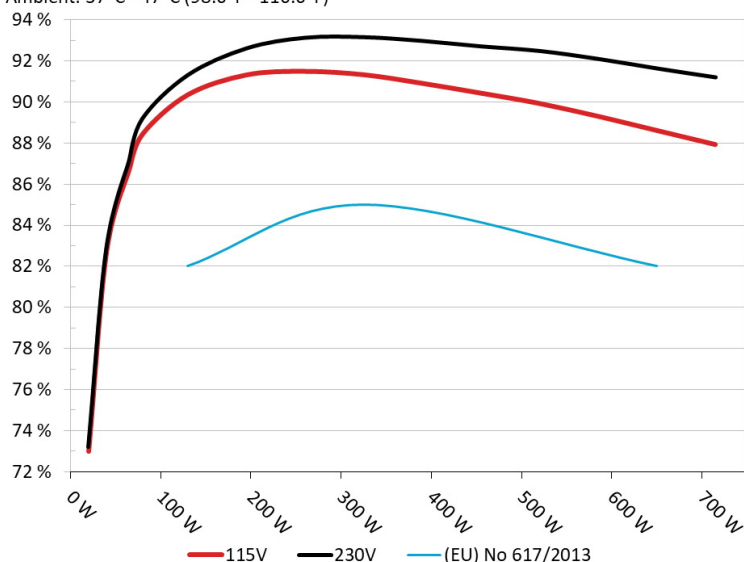
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EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

Efficiency: Cooler Master XG 650W
Ambient: 37°C - 47°C (98.6°F - 116.6°F)

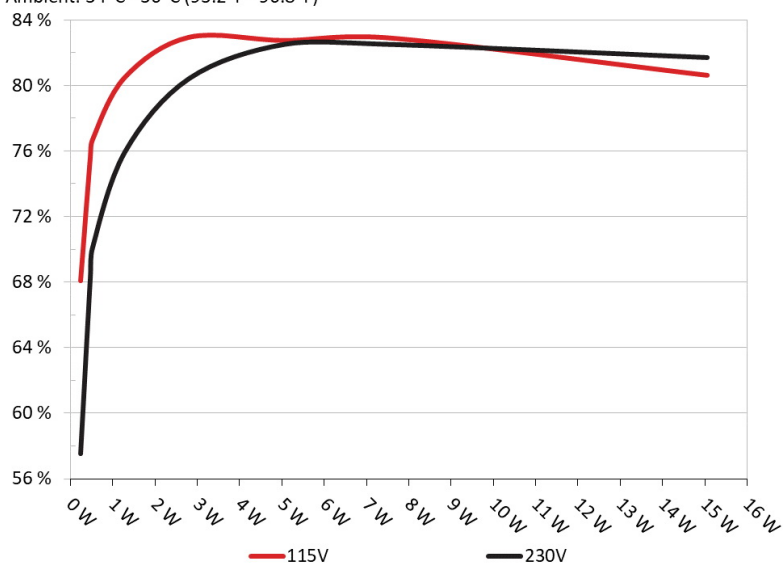


INFO

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 650W
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 650

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

5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts	
1	0.045A	0.23W	68.099%	0.055
	5.099V	0.338W		115.14V
2	0.09A	0.459W	75.618%	0.096
	5.097V	0.607W		115.14V
3	0.55A	2.798W	82.937%	0.326
	5.085V	3.374W		115.14V
4	1A	5.074W	82.735%	0.4
	5.073V	6.133W		115.14V
5	1.5A	7.591W	82.882%	0.439
	5.059V	9.159W		115.14V
6	3.001A	15.059W	80.617%	0.491
	5.019V	18.68W		115.14V

Test

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

5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts	
1	0.045A	0.23W	57.535%	0.019
	5.099V	0.4W		230.28V
2	0.09A	0.459W	68.24%	0.033
	5.098V	0.673W		230.28V
3	0.55A	2.798W	80.412%	0.15
	5.085V	3.48W		230.28V
4	1A	5.074W	82.504%	0.228
	5.073V	6.15W		230.28V
5	1.5A	7.591W	82.49%	0.286
	5.06V	9.202W		230.28V
6	3.001A	15.061W	81.692%	0.372
	5.019V	18.436W		230.28V

Test

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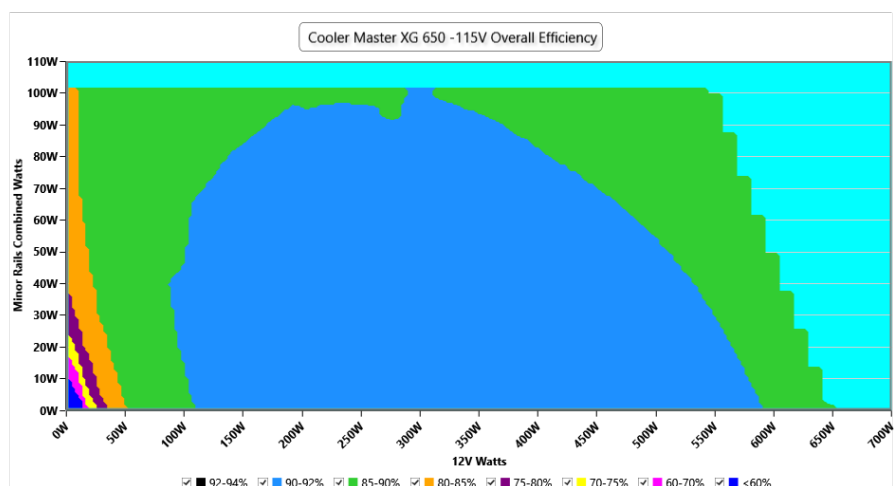
115V

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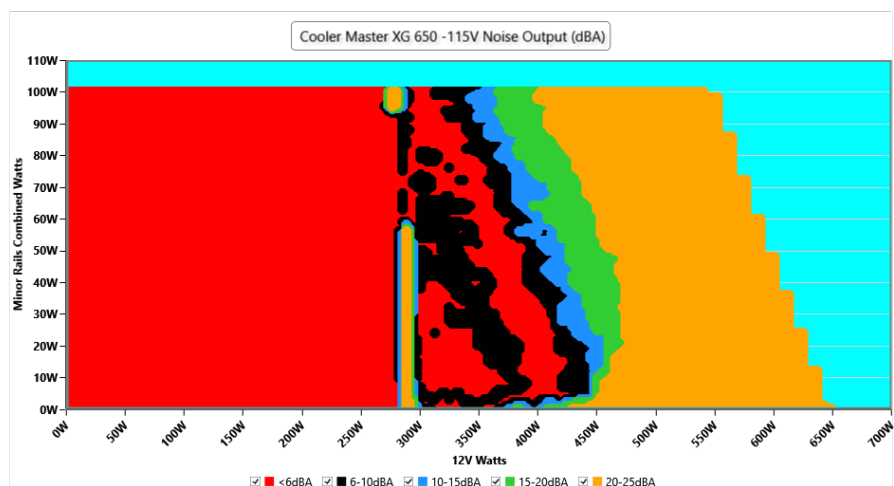
EFFICIENCY GRAPH 115V



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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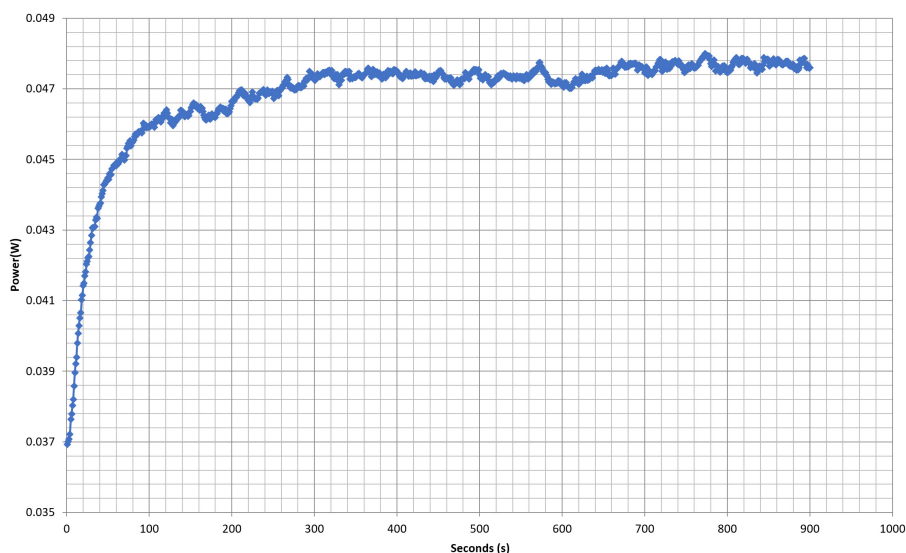
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VAMPIRE POWER -115V

Power - 25/08/2021 - 09:14



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%	3.622A	1.991A	1.987A	0.986A	65.024	86.386%	0	<6.0	44.8°C	0.959
	11.991V	5.023V	3.322V	5.074V	75.271				39.65°C	115.16V
20%	8.264A	2.988A	2.982A	1.185A	129.995	90.359%	0	<6.0	45.92°C	0.985
	11.990V	5.022V	3.32V	5.064V	143.865				40.04°C	115.15V
30%	13.258A	3.486A	3.481A	1.385A	195.013	91.326%	0	<6.0	46.76°C	0.991
	11.990V	5.021V	3.319V	5.054V	213.535				40.5°C	115.15V
40%	18.257A	3.985A	3.979A	1.587A	260.104	91.496%	0	<6.0	48.58°C	0.992
	11.990V	5.02V	3.318V	5.044V	284.279				41.63°C	115.14V
50%	22.905A	4.983A	4.976A	1.789A	325.124	91.332%	505	9.1	42.27°C	0.991
	11.989V	5.019V	3.317V	5.033V	355.981				49.69°C	115.14V
60%	27.527A	5.981A	5.974A	1.992A	389.799	90.916%	750	22.8	42.46°C	0.989
	11.987V	5.018V	3.315V	5.022V	428.748				50.22°C	115.14V
70%	32.200A	6.98A	6.972A	2.196A	455.107	90.436%	754	22.9	43.48°C	0.989
	11.987V	5.016V	3.314V	5.01V	503.235				51.77°C	115.14V
80%	36.877A	7.98A	7.971A	2.3A	519.918	89.935%	768	23.4	43.82°C	0.99
	11.986V	5.015V	3.313V	5.002V	578.107				52.76°C	115.14V
90%	41.952A	8.481A	8.457A	2.404A	585.339	89.306%	1010	31.6	44.56°C	0.99
	11.985V	5.014V	3.311V	4.994V	655.43				53.75°C	115.13V
100%	46.763A	8.982A	8.974A	3.018A	650.171	88.619%	1191	36.5	45.81°C	0.991
	11.985V	5.013V	3.31V	4.972V	733.673				55.91°C	115.12V
110%	51.440A	9.983A	10.065A	3.021A	714.785	87.938%	1389	40.6	46.79°C	0.992
	11.984V	5.011V	3.309V	4.966V	812.829				57.62°C	115.12V
CL1	0.117A	12.016A	11.984A	0A	101.346	84.074%	0	<6.0	49.45°C	0.98
	11.991V	5.012V	3.313V	5.09V	120.544				42.44°C	115.15V
CL4	54.222A	0A	0A	0A	649.91	89.589%	1110	34.4	45.52°C	0.991
	11.986V	5.022V	3.317V	5.064V	725.44				55.41°C	115.12V

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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	1.240A	0.498A	0.497A	0.196A	20.018	73.009%	0	<6.0	40.53°C	0.799
	11.991V	5.026V	3.324V	5.099V	27.418				37.36°C	115.16V
40W	2.728A	0.697A	0.695A	0.295A	40.019	82.787%	0	<6.0	41.71°C	0.915
	11.991V	5.025V	3.323V	5.095V	48.34				37.95°C	115.16V
60W	4.216A	0.896A	0.894A	0.393A	60.021	86.742%	0	<6.0	42.54°C	0.952
	11.991V	5.025V	3.323V	5.091V	69.195				38.17°C	115.16V
80W	5.702A	1.095A	1.093A	0.492A	79.997	88.456%	0	<6.0	44.08°C	0.966
	11.991V	5.024V	3.322V	5.087V	90.437				39.16°C	115.16V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	15.3 mV	5.8 mV	10.3 mV	5.4 mV	Pass
20% Load	17.4 mV	5.9 mV	10.1 mV	5.8 mV	Pass
30% Load	18.6 mV	6.0 mV	10.3 mV	5.6 mV	Pass
40% Load	14.6 mV	6.6 mV	11.6 mV	6.3 mV	Pass
50% Load	12.9 mV	6.4 mV	10.6 mV	6.1 mV	Pass
60% Load	12.4 mV	6.4 mV	10.3 mV	6.5 mV	Pass
70% Load	12.9 mV	7.1 mV	11.1 mV	6.5 mV	Pass
80% Load	13.9 mV	7.3 mV	12.4 mV	7.0 mV	Pass
90% Load	15.2 mV	8.0 mV	13.5 mV	6.7 mV	Pass
100% Load	23.3 mV	8.3 mV	13.7 mV	8.8 mV	Pass
110% Load	24.3 mV	8.5 mV	14.3 mV	8.9 mV	Pass
Crossload 1	24.2 mV	8.3 mV	13.7 mV	7.3 mV	Pass
Crossload 4	23.0 mV	6.7 mV	12.4 mV	6.9 mV	Pass

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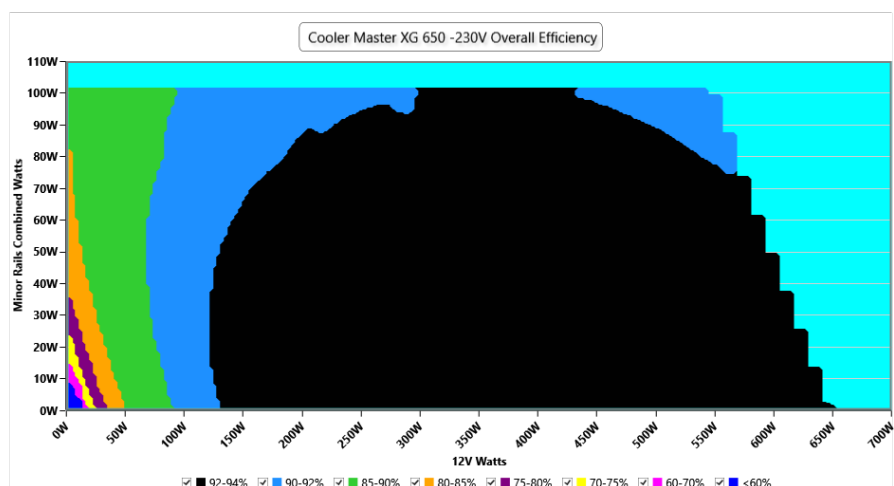
230V

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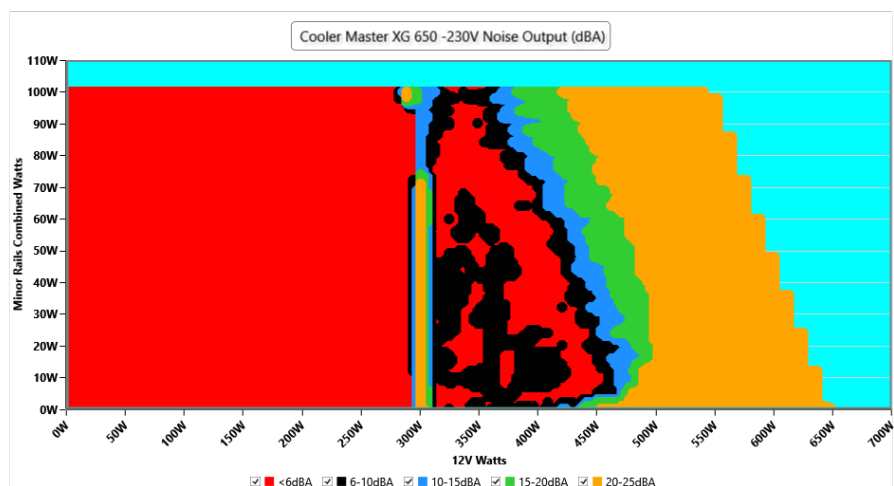
EFFICIENCY GRAPH 230V



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NOISE GRAPH 230V



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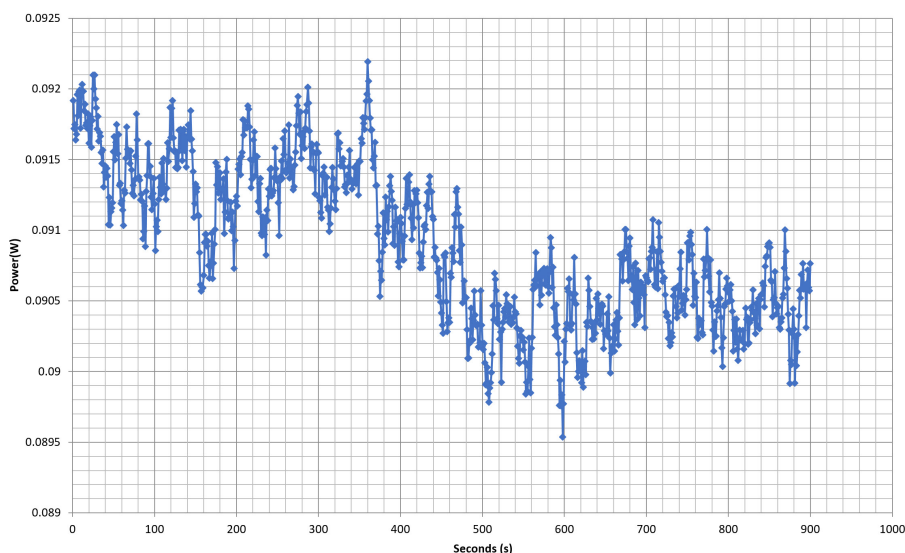
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10-110% LOAD TESTS 230V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
10%	3.622A	1.991A	1.987A	0.986A	65.019	87.129%	0	<6.0	45.09°C	0.75
	11.989V	5.024V	3.322V	5.074V	74.624				40.02°C	230.29V
20%	8.264A	2.987A	2.982A	1.185A	129.981	91.315%	0	<6.0	46.41°C	0.889
	11.989V	5.022V	3.32V	5.063V	142.343				40.56°C	230.29V
30%	13.257A	3.486A	3.48A	1.385A	194.994	92.619%	0	<6.0	47.26°C	0.937
	11.989V	5.022V	3.32V	5.054V	210.534				41.01°C	230.29V
40%	18.257A	3.984A	3.978A	1.587A	260.086	93.139%	0	<6.0	48.75°C	0.957
	11.989V	5.021V	3.319V	5.044V	279.245				41.94°C	230.29V
50%	22.904A	4.982A	4.975A	1.789A	325.094	93.166%	453	<6.0	42.13°C	0.969
	11.988V	5.019V	3.317V	5.033V	348.942				49.52°C	230.29V
60%	27.522A	5.98A	5.973A	1.992A	389.716	92.985%	746	22.8	42.59°C	0.974
	11.987V	5.018V	3.316V	5.022V	419.115				50.41°C	230.29V
70%	32.198A	6.979A	6.971A	2.196A	455.044	92.718%	751	22.8	43.19°C	0.978
	11.986V	5.017V	3.314V	5.011V	490.782				51.53°C	230.29V
80%	36.871A	7.978A	7.969A	2.3A	519.828	92.495%	756	22.9	43.46°C	0.98
	11.985V	5.016V	3.313V	5.003V	562.007				52.29°C	230.29V
90%	41.948A	8.48A	8.455A	2.403A	585.274	92.104%	986	31.0	44.53°C	0.982
	11.985V	5.014V	3.312V	4.995V	635.451				53.87°C	230.29V
100%	46.757A	8.981A	8.972A	3.017A	650.104	91.641%	1199	36.7	45.6°C	0.984
	11.985V	5.013V	3.311V	4.973V	709.405				55.6°C	230.29V
110%	51.437A	9.98A	10.063A	3.021A	714.717	91.213%	1350	39.6	46.68°C	0.985
	11.983V	5.012V	3.309V	4.967V	783.573				57.57°C	230.29V
CL1	0.117A	12.015A	11.982A	0A	101.337	85.186%	0	<6.0	49.68°C	0.863
	11.990V	5.013V	3.313V	5.09V	118.961				42.65°C	230.29V
CL4	54.219A	0A	0A	0A	649.859	92.613%	1099	34.1	45.65°C	0.984
	11.986V	5.022V	3.317V	5.064V	701.691				55.86°C	230.29V

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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	1.240A	0.498A	0.496A	0.196A	20.012	73.227%	0	<6.0	39.99°C	0.491
	11.989V	5.026V	3.324V	5.099V	27.329				36.85°C	230.3V
40W	2.728A	0.697A	0.695A	0.295A	40.014	82.903%	0	<6.0	41.33°C	0.634
	11.989V	5.026V	3.323V	5.095V	48.266				37.64°C	230.3V
60W	4.216A	0.896A	0.894A	0.393A	60.015	87.146%	0	<6.0	42.28°C	0.728
	11.989V	5.025V	3.323V	5.091V	68.867				38.27°C	230.3V
80W	5.702A	1.095A	1.093A	0.492A	79.984	89.212%	0	<6.0	43.66°C	0.799
	11.989V	5.025V	3.323V	5.087V	89.657				39.12°C	230.29V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	14.3 mV	5.9 mV	10.8 mV	5.2 mV	Pass
20% Load	17.0 mV	6.0 mV	9.9 mV	5.8 mV	Pass
30% Load	17.4 mV	6.5 mV	11.0 mV	5.9 mV	Pass
40% Load	14.4 mV	6.6 mV	11.5 mV	5.9 mV	Pass
50% Load	12.1 mV	6.6 mV	15.9 mV	6.4 mV	Pass
60% Load	11.9 mV	6.6 mV	11.0 mV	6.4 mV	Pass
70% Load	12.4 mV	7.3 mV	12.0 mV	6.2 mV	Pass
80% Load	13.8 mV	7.3 mV	12.1 mV	6.7 mV	Pass
90% Load	13.7 mV	8.0 mV	13.1 mV	7.1 mV	Pass
100% Load	23.7 mV	8.9 mV	13.5 mV	7.2 mV	Pass
110% Load	25.8 mV	8.5 mV	14.0 mV	7.7 mV	Pass
Crossload 1	22.8 mV	8.5 mV	12.8 mV	7.1 mV	Pass
Crossload 4	24.3 mV	6.4 mV	12.4 mV	6.6 mV	Pass

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- > The link to the original test results document should be provided in any case

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Anex

Cooler Master XG 650



Top side

650W MODEL / 型號 / 型号 : MPG-6501-AFBAP Switching Power Supply 交換式電源供應器 / 开关电源						
AC INPUT 交流輸入		100-240V~, 8-4A, 50-60Hz 200-240V~, 4A, 50-60Hz, For Korea Use Only 200-240V~, 4A, 50-60Hz, 适用于中国地区使用				
DC OUTPUT 直流輸出/直流輸出		+5V 20A	+3.3V 20A	+12V 54.1A	-12V 0.3A	+5VSB 3A
TOTAL POWER 總功率/总功率		100W		649.2W	3.6W	15W
650W						
 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，本廠電源保證失效 / 如果封條貼紙被移動、遺失或損壞，本廠電源保證失效 / 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 ■ 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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