

#### **Anex**

### Cooler Master MWE Gold 1050W V2 (#2)

Lab ID#: CM10502148

Receipt Date: Jan 18, 2023

Test Date: Mar 7, 2023

Report: 23PS2148A

Report Date: Mar 15, 2023

DUT INFORMATION				
Brand	Cooler Master			
Manufacturer (OEM)	Xin Hui Yuan Tech (Fusion Power)			
Series	MWE Gold V2			
Model Number	MPE-A501-AFCAG			
Serial Number	MPEA501AFCAG3U22224200003			
DUT Notes				

DUT SPECIFICATIONS						
Rated Voltage (Vrms)	100-240					
Rated Current (Arms)	13-6					
Rated Frequency (Hz)	50-60					
Rated Power (W)	1050					
Туре	ATX12V					
Cooling	140mm Fluid Dynamic Bearing Fan (HA1425H12F-Z)					
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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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 v3.0 PSU Power Excursion	✓

115V	
Average Efficiency	89.022%
Efficiency With 10W (≤500W) or 2% (>500W)	68.800
Average Efficiency 5VSB	80.268%
Standby Power Consumption (W)	0.0112000
Average PF	0.979
Avg Noise Output	38.46 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	Standard+

91.098%
79.463%
0.1040000
0.957
38.57 dB(A)
PLATINUM
Standard+

POWER SPECIFICATIONS							
Rail		3.3V	5V	12V	5VSB	-12V	
Mary Davies	Amps	20	20	87.5	3	0.3	
Max. Power	Watts	120		1050	15	3.6	
Total Max. Power (W)		1050					

HOLD-UP TIME & POWER OK SIGNAL (230V)		
Hold-Up Time (ms)	28.8	
AC Loss to PWR_OK Hold Up Time (ms)	25.6	
PWR_OK Inactive to DC Loss Delay (ms)	3.2	

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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 PCle (550mm)	3	3	16AWG	No
12+4 pin PCle (650mm) (600W)	1	1	16-28AWG	No
SATA (510mm+120mm+120mm+120mm)	3	12	18AWG	No
4 pin Molex (500mm+120mm+120mm+120mm)	1	4	18AWG	No
AC Power Cord (1390mm) - C13 coupler	1	1	14AWG	-

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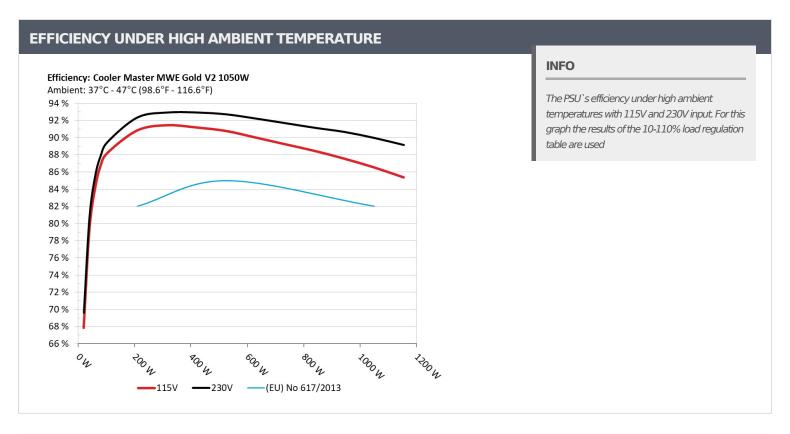
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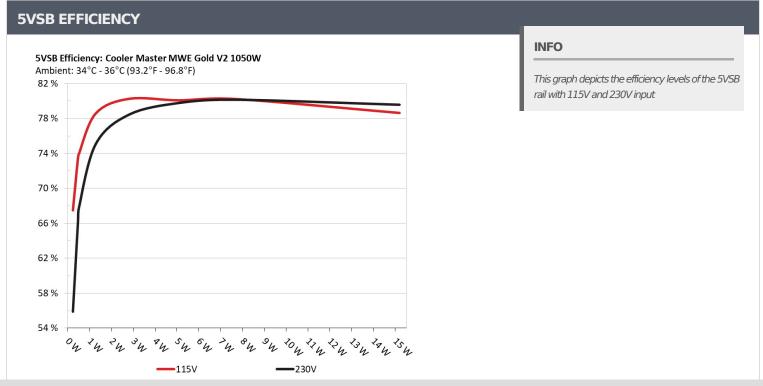
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5VSB EFFI	CIENCY -115V (ERF	P LOT 3/6 & CEC)		
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.23W	C7.00F0/	0.048
1	5.113V	0.338W	67.995%	114.93V
2	0.09A	0.46W	72.0240/	0.086
2	5.112V	0.622W	73.934%	114.93V
	0.55A	2.807W	00 7550/	0.325
3	5.104V	3.476W	80.755%	114.94V
	1A	5.096W	00.5700/	0.412
4	5.097V	6.324W	80.578%	114.94V
_	1.5A	7.633W	00 7000/	0.45
5	5.089V	9.455W	80.733%	114.93V
	ЗА	15.188W	70.1000/	0.505
6	5.063V	19.192W	79.138%	114.93V

TENET -230V (LINI	P LOT 3/6 & CEC)		
5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
0.045A	0.23W		0.017
5.112V	0.408W	56.377%	229.9V
0.09A	0.46W	66 5720/	0.028
5.111V	0.692W	66.572%	229.9V
0.55A	2.807W	70.0500/	0.135
5.103V	3.555W	78.959%	229.89V
1A	5.096W	00 2000/	0.215
5.096V	6.347W	80.289%	229.89V
1.5A	7.633W	00.6540/	0.279
5.088V	9.464W	80.654%	229.9V
3A	15.188W	00.0700/	0.373
5.063V	18.967W	80.079%	229.89V
	5VSB  0.045A  5.112V  0.09A  5.111V  0.55A  5.103V  1A  5.096V  1.5A  5.088V  3A	5VSB     DC/AC (Watts)       0.045A     0.23W       5.112V     0.408W       0.09A     0.46W       5.111V     0.692W       0.55A     2.807W       5.103V     3.555W       1A     5.096W       5.096V     6.347W       1.5A     7.633W       5.088V     9.464W       3A     15.188W	5VSB         DC/AC (Watts)         Efficiency           0.045A         0.23W         56.377%           5.112V         0.408W         66.377%           0.09A         0.46W         66.572%           5.111V         0.692W         78.959%           5.103V         3.555W         78.959%           1A         5.096W         80.289%           5.096V         6.347W         80.654%           5.088V         9.464W         80.654%           3A         15.188W         80.079%

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Anex

Cooler Master MWE Gold 1050W V2 (#2)

# 115V

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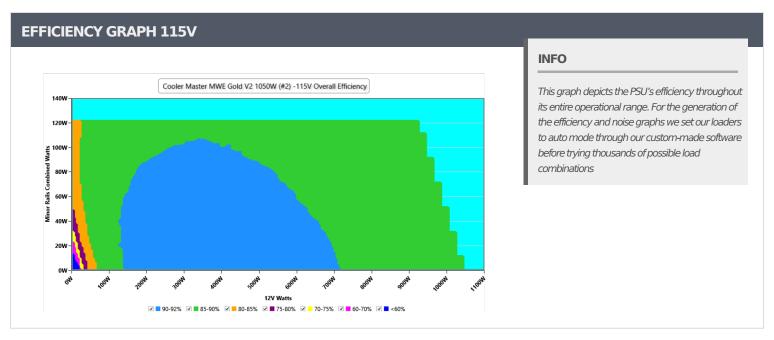
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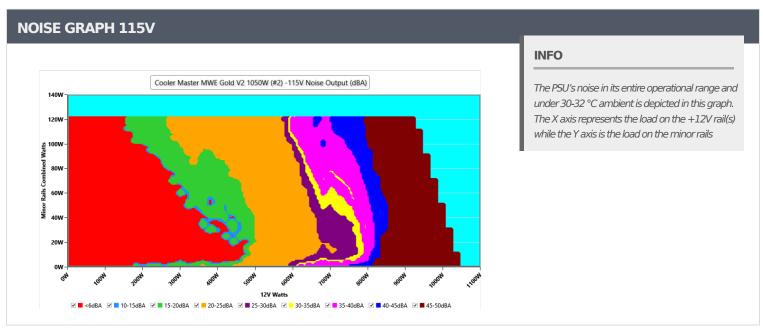
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VAMPIRE POWER -115V							
Detailed Results							
	Average	Min	Limit Min	Max	Limit Max	Result	
Mains Voltage RMS:	114.93 V	114.88 V	113.85 V	114.97 V	116.15 V	PASS	
Mains Frequency:	60.01 Hz	59.99 Hz	59.40 Hz	60.02 Hz	60.60 Hz	PASS	
Mains Voltage CF:	1.418	1.417	1.340	1.419	1.490	PASS	
Mains Voltage THD:	0.15 %	0.12 %	N/A	0.20 %	2.00 %	PASS	
Real Power:	0.011 W	0.009 W	N/A	0.013 W	N/A	N/A	
Apparent Power:	6.876 W	6.854 W	N/A	6.896 W	N/A	N/A	
Power Factor:	0.001	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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Cooler Master MWE Gold 1050W V2 (#2)

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
	6.948A	1.989A	1.983A	0.983A	104.944	00.2440/	0	-6.0	44.27°C	0.953
10%	11.996V	5.026V	3.328V	5.088V	118.919	88.244%	0	<6.0	40.22°C	114.91
200/	14.916A	2.986A	2.979A	1.182A	209.936	- 00.0420/	0	<6.0	45.02°C	0.968
20%	12.003V	5.023V	3.323V	5.077V	231.103	90.843%		<0.0	40.61°C	114.89
200/	23.238A	3.486A	3.479A	1.382A	314.953	01.450/	0	-6.0	47.87°C	0.972
30%	12.002V	5.021V	3.319V	5.066V	344.396	91.45%	0	<6.0	43.06°C	114.85
400/	31.533A	3.985A	3.98A	1.582A	419.612	01.1070/	012	24	42.06°C	0.978
40%	12.000V	5.018V	3.316V	5.055V	460.164	91.187%	813	24	47.07°C	114.84
F00/	39.544A	4.985A	4.981A	1.784A	524.936	00.7770/	0.41	23	42.47°C	0.982
50%	11.998V	5.015V	3.312V	5.044V	578.271	90.777%	841	23	47.96°C	114.82
600/	47.493A	5.986A	5.985A	1.987A	629.476	00.0160/	1760	42.4	42.96°C	0.985
60%	11.995V	5.012V	3.308V	5.033V	699.3	90.016%	1760	42.4	49.01°C	114.79
70%	55.513A	6.989A	6.991A	2.191A	734.817	89.229%	1954	45.1	43.39°C	0.987
70%	11.992V	5.009V	3.304V	5.022V	823.52	89.229%	1954	45.1	50.49°C	114.76
000/	63.532A	7.993A	7.998A	2.295A	839.635	- 00 4400/	1072	<i>1</i> 5 2	43.97°C	0.989
80%	11.990V	5.006V	3.3V	5.012V	949.301	88.449%	1973	45.3	52.01°C	114.73
000/	71.951A	8.496A	8.493A	2.399A	945.015	07.5440/	1000	4F 0	45.33°C	0.99
90%	11.988V	5.003V	3.296V	5.002V	1079.477	87.544%	1989	45.8	54.35°C	114.7V
1000/	80.099A	9.001A	9.022A	3.011A	1049.846	06 5220/	2004	46.7	46.2°C	0.991
100%	11.987V	5.001V	3.291V	4.983V	1213.262	86.532%	2004	46.7	56.25°C	114.66
1100/	88.119A	10.006A	10.129A	3.016A	1154.481	05 270/	2015	46.9	47.03°C	0.992
110%	11.986V	4.998V	3.287V	4.974V	1352.33	85.37%	2015	46.8	58°C	114.63
Cl 1	0.117A	14.413A	14.373A	0A	121.313	- 02.0160/	OE1	22.0	42.33°C	0.962
CL1	12.002V	5.01V	3.318V	5.091V	146.491	82.816%	851	23.8	47.84°C	114.9V
CL2	0.116A	19.996A	0A	0A	101.419	01 570/	471	16.1	37.77°C	0.953
CLZ	12.001V	5.002V	3.319V	5.1V	124.343	81.57%	471	16.1	45.01°C	114.9V
CI 2	0.116A	0A	19.903A	0A	67.384	76 7020/	727	22	42.06°C	0.943
CL3	11.997V	5.026V	3.316V	5.095V	87.854	76.703%	737	23	51.08°C	114.91
CL 4	87.546A	0A	0A	0A	1049.805	06.00207	2007	46.5	45.8°C	0.991
CL4	11.992V	5.01V	3.291V	5.043V	1208.193	86.892%	2001	46.5	56.69°C	114.66

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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
2014	1.236A	0.497A	0.496A	0.196A	19.991	67.0200/	0	<6.0	39.63°C	0.882
20W	12.015V	5.027V	3.325V	5.109V	29.467	67.839%			36.54°C	114.93V
40)4/	2.724A	0.696A	0.694A	0.294A	39.993	79.203%	0	<6.0	40.46°C	0.914
40W	12.000V	5.027V	3.327V	5.105V	50.492		0		37.1°C	114.92V
COLAL	4.212A	0.895A	0.892A	0.392A	59.992	04.0250/	0	<6.0	41.64°C	0.937
60W	11.997V	5.028V	3.33V	5.102V	71.392	84.035%	0		37.94°C	114.92V
00144	5.694A	1.094A	1.09A	0.49A	79.935	06.7250/	0	<6.0	42.03°C	0.947
80W	11.996V	5.027V	3.329V	5.099V	92.157	86.735%	0		38.01°C	114.91V

RIPPLE MEAS	SUREMENTS 115V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	19.78mV	4.54mV	6.70mV	6.34mV	Pass
20% Load	22.54mV	5.52mV	6.75mV	7.37mV	Pass
30% Load	16.81mV	5.62mV	7.16mV	8.65mV	Pass
40% Load	15.89mV	6.43mV	8.85mV	9.62mV	Pass
50% Load	13.58mV	6.13mV	7.93mV	9.83mV	Pass
60% Load	14.51mV	6.79mV	8.49mV	10.64mV	Pass
70% Load	14.81mV	7.56mV	8.28mV	11.51mV	Pass
80% Load	15.38mV	7.46mV	9.77mV	11.51mV	Pass
90% Load	15.53mV	7.30mV	11.10mV	12.03mV	Pass
100% Load	25.05mV	9.04mV	10.31mV	13.18mV	Pass
110% Load	26.35mV	9.52mV	12.26mV	13.26mV	Pass
Crossload1	30.33mV	6.17mV	8.86mV	9.03mV	Pass
Crossload2	20.75mV	5.52mV	6.70mV	8.70mV	Pass
Crossload3	5.68mV	4.85mV	10.23mV	8.14mV	Pass
Crossload4	25.02mV	8.01mV	8.93mV	14.04mV	Pass

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# 230V

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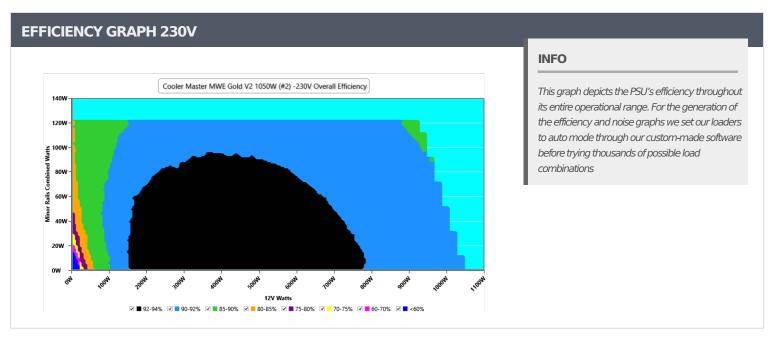
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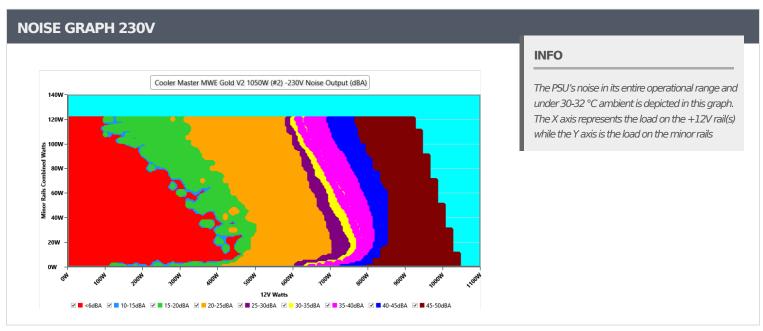
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VAMPIRE POWER -230V											
Detailed Results											
	Average	Min	Limit Min	Max	Limit Max	Result					
Mains Voltage RMS:	229.89 V	229.85 V	227.70 V	229.96 V	232.30 V	PASS					
Mains Frequency:	50.00 Hz	49.99 Hz	49.50 Hz	50.01 Hz	50.50 Hz	PASS					
Mains Voltage CF:	1.416	1.415	1.340	1.417	1.490	PASS					
Mains Voltage THD:	0.17 %	0.15 %	N/A	0.20 %	2.00 %	PASS					
Real Power:	0.104 W	0.082 W	N/A	0.132 W	N/A	N/A					
Apparent Power:	24.361 W	24.333 W	N/A	24.394 W	N/A	N/A					
Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A					

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10-1	.10% LOA	D 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
100/	6.950A	1.991A	1.983A	0.983A	104.982	00 5000/			44.57°C	0.886
10%	11.998V	5.024V	3.329V	5.086V	117.264	89.522%	0	<6.0	40.48°C	229.88\
200/	14.918A	2.988A	2.978A	1.182A	209.988	02.2470/	0	-0.0	44.85°C	0.939
20%	12.004V	5.021V	3.325V	5.075V	227.38	92.347%	0	<6.0	40.54°C	229.86\
200/	23.243A	3.488A	3.477A	1.382A	315.02	02.0100/	450	140	41.05°C	0.955
30%	12.002V	5.018V	3.322V	5.065V	339.011	92.919%	458	14.2	45.81°C	229.85\
400/	31.547A	3.988A	3.978A	1.583A	419.741	02.02.40/	01.4	24	42.18°C	0.964
40%	11.999V	5.016V	3.319V	5.055V	451.7	92.924%	814	24	47.27°C	229.84\
<b>50</b> 0/	39.558A	4.988A	4.978A	1.785A	525.047	00.7000/	020	25	42.36°C	0.97
50%	11.996V	5.013V	3.315V	5.044V	566.337	92.709%	830	25	47.82°C	229.82\
	47.509A	5.99A	5.981A	1.987A	629.589	22.222/		43.5	42.92°C	0.974
60%	11.993V	5.01V	3.311V	5.033V	682.707	92.221%	1652		49.01°C	229.82\
700/	55.529A	6.993A	6.987A	2.191A	734.922	01.6700/	1051	45.0	43°C	0.976
70%	11.990V	5.007V	3.307V	5.021V	801.618	91.679%	1951	45.2	50.04°C	229.8V
000/	63.546A	7.998A	7.995A	2.296A	839.789	01.1200/	1001	4F.C	45.57°C	0.978
80%	11.989V	5.004V	3.302V	5.011V	921.445	91.138%	1981	45.6	53.62°C	229.79\
000/	71.970A	8.5A	8.488A	2.4A	945.065	00.6540/	1000	45.0	44.34°C	0.981
90%	11.985V	5.001V	3.299V	5.002V	1042.497	90.654%	1988	45.8	53.37°C	229.78\
1000/	80.120A	9.006A	9.016A	3.011A	1049.933	00.0000/	2004	46.7	45.89°C	0.983
100%	11.985V	4.998V	3.294V	4.982V	1167.093	89.962%	2004	46.7	56.01°C	229.76\
1100/	88.142A	10.012A	10.123A	3.017A	1154.595	00 1 410/	2011	46.0	47.15°C	0.984
110%	11.984V	4.995V	3.289V	4.972V	1295.248	89.141%	2011	46.9	58.08°C	229.75\
CLI	0.117A	14.421A	14.364A	0A	121.326	02.02007	1107	25.2	45.18°C	0.909
CL1	12.002V	5.008V	3.32V	5.09V	144.55	83.938%	1191	35.3	50.64°C	229.88\
CI D	0.117A	20.005A	0A	0A	101.419	02.6010/	010	25.5	43.44°C	0.892
CL2	12.000V	5V	3.32V	5.099V	122.658	82.691%	818	25.5	50.45°C	229.87\
a. a	0.117A	0A	19.897A	0A	67.388				42.47°C	0.85
CL3	11.997V	5.023V	3.317V	5.094V	86.618	77.795%	816	24.7	51.51°C	229.88\
<b>.</b>	87.566A	0A	0A	0A	1049.89		000-		47.06°C	0.983
CL4	11.990V	5.008V	3.293V	5.042V	1162.997	90.275%	2009	46.7	58.01°C	229.77\
							_			

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Anex

Cooler Master MWE Gold 1050W V2 (#2)

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
20144	1.240A	0.5A	0.5A	0.2A	20.145	- 60 6000/			39.61°C	0.621
20W	12.048V	5.024V 3.324V 5.107V 28.943 69.608% 0	0	<6.0	36.58°C	229.89V				
40)44	2.720A	0.7A	0.7A	0.3A	40.061	80.694% 0		<6.0	41.24°C	0.756
40W	12.013V	5.025V	3.327V	5.103V	49.642		0		37.93°C	229.88V
COM	4.210A	0.895A	0.892A	0.392A	60.007	05 4750/	0	<6.0	42.47°C	0.818
60W	12.002V	5.025V	3.331V	5.1V	70.204	85.475%	0		39°C	229.88V
00144	5.696A	1.095A	1.09A	0.491A	79.969		0		42.86°C	0.856
80W	11.999V	5.025V	3.331V	5.097V	90.976	87.902%	0	<6.0	39.06°C	229.88V

RIPPLE MEASUR	EMENTS 230V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	6.19mV	4.75mV	6.65mV	6.29mV	Pass
20% Load	22.39mV	5.01mV	7.00mV	7.06mV	Pass
30% Load	17.12mV	5.87mV	6.85mV	8.19mV	Pass
40% Load	17.58mV	6.08mV	7.67mV	8.80mV	Pass
50% Load	14.20mV	6.03mV	7.16mV	9.62mV	Pass
60% Load	14.66mV	6.13mV	7.46mV	10.49mV	Pass
70% Load	14.87mV	7.20mV	8.44mV	10.60mV	Pass
80% Load	15.43mV	7.30mV	9.16mV	10.75mV	Pass
90% Load	16.35mV	7.46mV	10.38mV	11.36mV	Pass
100% Load	24.27mV	8.69mV	10.40mV	12.36mV	Pass
110% Load	25.79mV	9.29mV	11.81mV	12.41mV	Pass
Crossload1	34.00mV	6.13mV	10.54mV	9.15mV	Pass
Crossload2	22.60mV	5.16mV	7.42mV	8.85mV	Pass
Crossload3	6.09mV	4.80mV	10.69mV	8.55mV	Pass
Crossload4	25.35mV	7.78mV	8.57mV	13.72mV	Pass

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#### Anex

#### Cooler Master MWE Gold 1050W V2 (#2)













**Aristeidis Bitziopoulos** Lab Director

### **CERTIFICATIONS 230V**





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