

#### Maxpower MP-1200W-U-G

Anex

Lab ID#: MP12002408 Receipt Date: Mar 26, 2024 Test Date: Apr 9, 2024

#### Report: 24PS2408A

Report Date: Apr 10, 2024

DUT INFORMATION	
Brand	Maxpower
Manufacturer (OEM)	Maxpower
Series	MP-U-G
Model Number	
Serial Number	
DUT Notes	

DUT SPECIFICATI	DUT SPECIFICATIONS						
Rated Voltage (Vrms)	115-240						
Rated Current (Arms)	14-7						
Rated Frequency (Hz)	60-50						
Rated Power (W)	1200						
Туре	ATX12V						
Cooling	135mm Fluid Dynamic Bearing Fan (BDH140255)						
Semi-Passive Operation	1						
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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# EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

## Maxpower MP-1200W-U-G

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

115V		230V		
Average Efficiency	88.049%	Average Efficiency	90.367%	
Efficiency With 10W ( $\leq$ 500W) or 2% (>500W)	66.669	Average Efficiency 5VSB	77.589%	
Average Efficiency 5VSB	79.493%	Standby Power Consumption (W)	0.2186000	
Standby Power Consumption (W)	0.0924000	Average PF	0.948	
Average PF	0.987	Avg Noise Output	35.85 dB(A)	
Avg Noise Output	36.05 dB(A)	Efficiency Rating (ETA)	SILVER	
Efficiency Rating (ETA)	GOLD	Noise Rating (LAMBDA)	Standard+	
Noise Rating (LAMBDA)	Standard+			

## **POWER SPECIFICATIONS**

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	100	3	0.5
	Watts	120		1200	15	6
Total Max. Power (W)		1200				

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

Hold-Up Time (ms)	10.6
AC Loss to PWR_OK Hold Up Time (ms)	18.4
PWR_OK Inactive to DC Loss Delay (ms)	-7.8

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#### **CABLES AND CONNECTORS**

Modular Cables							
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors			
ATX connector 20+4 pin (600mm)	1	1	16-18AWG	No			
4+4 pin EPS12V (650mm)	2	2	16AWG	No			
6+2 pin PCle (600mm+150mm)	3	6	16-18AWG	No			
12+4 pin PCle (660mm) (600W)	1	1	16-24AWG	No			
SATA (510mm+150mm+150mm+150mm)	2	8	18AWG	No			
4-pin Molex (505mm+150mm+150mm)	1	3	18AWG	No			

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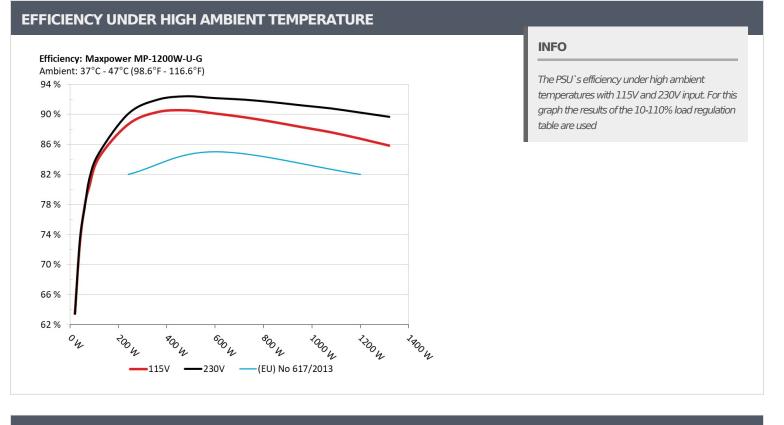
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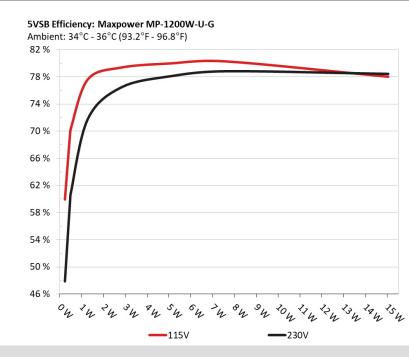


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## Maxpower MP-1200W-U-G



## **5VSB EFFICIENCY**



## INFO

This graph depicts the efficiency levels of the 5VSB rail with 115V and 230V input

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## Maxpower MP-1200W-U-G

5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)						
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts		
1	0.045A	0.231W	- CD 40C0/	0.029		
1	5.136V	0.382W	60.426%	114.93V		
2	0.09A	0.462W		0.049		
2	5.134V	0.661W	69.897%	114.94V		
2	0.55A	2.814W	70.040/	0.221		
3	5.116V	3.524W	79.84%	114.92V		
	1A	5.098W	00 4520/	0.314		
4	5.098V	6.336W	80.453%	114.92V		
-	1.5A	7.618W	00.7420/	0.374		
5	5.078V	9.435W	80.743%	114.91V		
<u> </u>	ЗА	15.052W	70.40%	0.457		
6	5.017V	19.177W	78.49%	114.91V		

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.231W	40.2200/	0.011
I	5.133V	0.481W	48.339%	229.88V
2	0.09A	0.462W		0.017
2	5.132V	0.774W	59.972%	229.89V
2	0.55A	2.813W	70.040/	0.079
3	5.114V	3.658W	76.94%	229.89V
4	1A	5.097W	70 5000/	0.133
4	5.096V	6.487W	78.596%	229.88V
-	1.5A	7.616W		0.184
5	5.076V	9.6W	79.318%	229.88V
6	3A	15.048W	70.000/	0.291
6	5.016V	19.064W	78.928%	229.88V

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

Maxpower MP-1200W-U-G

# **115V**

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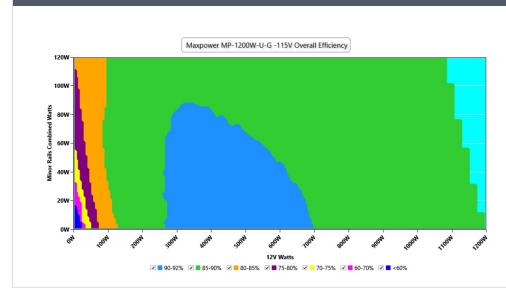
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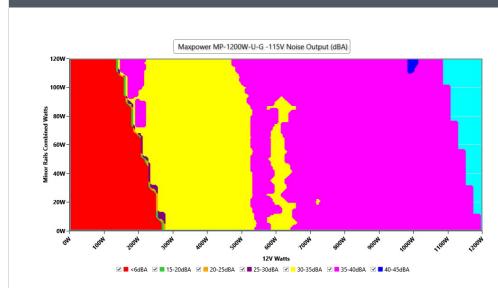
## **EFFICIENCY GRAPH 115V**



#### 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:	115.06 V	115.02 V	113.85 V	115.10 V	116.15 V	PASS			
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS			
Mains Voltage CF:	1.416	1.415	1.340	1.418	1.490	PASS			
Mains Voltage THD:	0.13 %	0.09 %	N/A	0.18%	2.00 %	PASS			
Real Power:	0.092 W	0.084 W	N/A	0.105 W	N/A	N/A			
Apparent Power:	13.349 W	13.315 W	N/A	13.388 W	N/A	N/A			
Power Factor:	0.007	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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Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100/	8.156A	1.931A	1.965A	0.985A	119.998	04.2500/	0		44.29°C	0.988
10%	12.064V	5.178V	3.359V	5.074V	142.415	84.259%		<6.0	40.05°C	114.88V
200/	17.334A	2.903A	2.958A	1.188A	239.96	00 ( 470/	0	-6.0	45.33°C	0.978
20%	12.061V	5.167V	3.347V	5.053V	270.692	88.647%	0	<6.0	40.67°C	114.83V
200/	26.795A	3.401A	3.467A	1.39A	359.185	00 2700/	1100	26.0	41.22°C	0.984
30%	12.060V	5.146V	3.332V	5.035V	397.866	90.278%	1182	36.0	46.31°C	114.8V
400/	36.367A	3.897A	3.976A	1.595A	479.564	00 5220/	1100	26.0	41.56°C	0.988
40%	12.053V	5.133V	3.32V	5.016V	529.723	90.532%	1183	36.0	47.09°C	114.75V
F00/	45.559A	4.883A	4.99A	1.802A	599.326	00 1050/	1005	20.4	42.21°C	0.99
50%	12.046V	5.12V	3.307V	4.996V	665.136	90.105%	1335	39.4	48.29°C	114.71V
<b>CO</b> 0(	54.826A	5.873A	6.012A	2A	719.793	00 (1 40/	1240	20 F	42.64°C	0.992
60%	12.039V	5.108V	3.294V	4.974V	803.213	89.614%	1342	39.5	49.19°C	114.67V
700/	64.043A	6.869A	7.042A	2.222A	839.571	88.986% 1348	1240	20.7	43.33°C	0.993
70%	12.030V	5.096V	3.281V	4.951V	943.487		39.7	50.34°C	114.61V	
000/	73.341A	7.868A	8.079A	2.331A	959.556	00.000/	1400	41.0	43.96°C	0.994
80%	12.022V	5.083V	3.268V	4.933V	1086.816	88.29%	1480	41.6	51.98°C	114.57V
000/	82.983A	8.377A	8.598A	2.442A	1079.356	07 (10/	1.400	41.0	44.7°C	0.995
90%	12.012V	5.073V	3.257V	4.915V	1232.004	87.61%	1489	41.6	53.74°C	114.51V
1000/	92.450A	8.889A	9.152A	3.078A	1199.397	06 7660/	1610	42.4	45.87°C	0.995
100%	12.003V	5.061V	3.245V	4.874V	1382.347	86.766%	1610	43.4	55.92°C	114.46V
1100/	101.865A	9.904A	10.307A	3.088A	1320.009	05.0200/	1017	42.4	46.59°C	0.996
110%	11.993V	5.048V	3.231V	4.858V	1537.795	85.838%	1617	43.4	57.52°C	114.41V
	0.117A	14.055A	14.434A	0A	121.305	70 (270/	0		45.88°C	0.986
CL1	12.055V	5.136V	3.305V	5.096V	154.279	78.627%	0	<6.0	40.36°C	114.86V
<b>C</b> 12	0.116A	19.338A	0A	0A	101.371	77.0000/	0		47.95°C	0.984
CL2	12.057V	5.17V	3.35V	5.103V	131.648	77.003%	0	<6.0	40.9°C	114.87V
	0.115A	0A	19.883A	0A	67.401	70.020/	0		50.21°C	0.973
CL3	12.060V	5.168V	3.32V	5.103V	95.023	70.93%	0	<6.0	41.18°C	114.89V
	99.951A	0A	0A	0.001A	1199.969	07.0000/	1004	(2.2	45.42°C	0.995
CL4	12.005V	5.11V	3.296V	5.011V	1374.502	87.302%	1604	43.3	56.39°C	114.48V

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## Maxpower MP-1200W-U-G

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	1.228A	0.482A	0.489A	0.195A	19.999	62 4520/	0	-6.0	39.64°C	0.788
20W	12.093V	5.186V	3.371V	5.12V	31.526	63.452%	0	<6.0	36.56°C	114.91V
40144	2.706A	0.675A	0.686A	0.293A	39.999	72 5250/	0		40.98°C	0.921
40W	12.080V	5.185V	3.369V	5.114V	55.151	72.525%	0		37.67°C	114.9V
C0144	4.186A	0.868A	0.882A	0.392A	59.999	77.0000/	0	<b>C O</b>	41.98°C	0.952
60W	12.073V	5.184V	3.367V	5.107V	77.235	77.686%	0	<6.0	38.28°C	114.89V
00111	5.660A	1.061A	1.078A	0.49A	79.948	00.4100/	0		43.17°C	0.975
80W	12.069V	5.183V	3.366V	5.1V	99.414	80.419%	0	<0.0	39.19°C	114.88V

#### **RIPPLE MEASUREMENTS 115V**

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	21.69mV	19.00mV	18.37mV	17.60mV	Pass
20% Load	58.24mV	18.85mV	18.41mV	17.29mV	Pass
30% Load	40.23mV	20.44mV	18.57mV	18.26mV	Pass
40% Load	34.38mV	20.79mV	19.23mV	19.54mV	Pass
50% Load	36.43mV	23.09mV	20.21mV	20.26mV	Pass
60% Load	38.88mV	25.80mV	21.89mV	22.20mV	Pass
70% Load	42.77mV	26.26mV	22.46mV	23.43mV	Pass
80% Load	44.05mV	28.71mV	24.81mV	25.27mV	Pass
90% Load	46.66mV	29.53mV	23.02mV	26.04mV	Pass
100% Load	60.88mV	34.57mV	28.65mV	29.51mV	Pass
110% Load	62.38mV	35.57mV	29.08mV	30.59mV	Pass
Crossload1	26.63mV	29.94mV	21.27mV	17.74mV	Pass
Crossload2	25.32mV	22.43mV	19.23mV	18.31mV	Pass
Crossload3	23.79mV	35.00mV	22.51mV	18.06mV	Pass
Crossload4	58.63mV	30.14mV	27.53mV	28.56mV	Pass

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EFFICIENCY AND NOISE LEVEL CERTIFICATIONS

Maxpower MP-1200W-U-G

# **230V**

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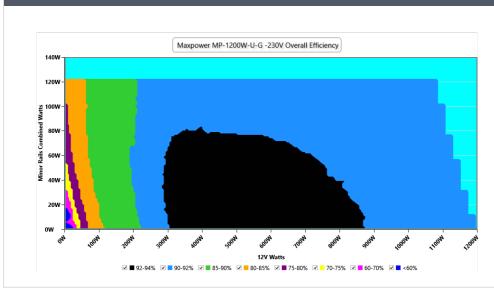
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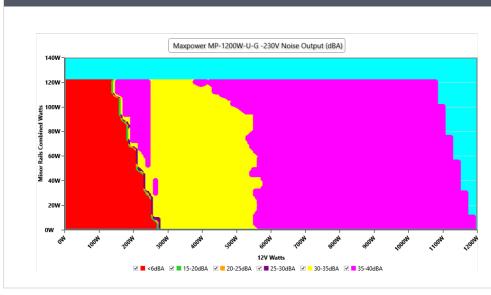
#### **EFFICIENCY GRAPH 230V**



#### INFO

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#### **NOISE GRAPH 230V**



#### INFO

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## VAMPIRE POWER -230V

Detailed Results										
	Average	Min	Limit Min	Max	Limit Max	Result				
Mains Voltage RMS:	231.00 V	230.90 V	227.70 V	231.06 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:	1.417	1.416	1.340	1.419	1.490	PASS				
Mains Voltage THD:	0.17 %	0.14 %	N/A	0.25 %	2.00 %	PASS				
Real Power:	0.219 W	0.195 W	N/A	0.275 W	N/A	N/A				
Apparent Power:	45.276 W	45.063 W	N/A	45.483 W	N/A	N/A				
Power Factor:	0.005	N/A	N/A	N/A	N/A	N/A				

#### INFO

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-10-1	10% LOAI		-500				E			
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100/	8.154A	1.93A	1.964A	0.986A	119.999	04 01 40/	0	-6.0	44.25°C	0.848
10%	12.066V	5.181V	3.361V	5.072V	141.321	84.914%	0	<0.0	40.01°C	229.87V
200/	17.330A	2.902A	2.957A	1.188A	239.961	- 00.0019/	0	-60	45.18°C	0.931
20%	12.063V	5.169V	3.349V	5.05V	266.355	90.091%	0	<0.0	40.64°C	229.85V
200/	26.785A	3.401A	3.467A	1.391A	359.201	01.0510/	1100	26.2	41.3°C	0.955
30%	12.064V	5.146V	3.332V	5.033V	390.643	91.951%	1190	30.3	46.38°C	229.83V
400/	36.354A	3.898A	3.977A	1.595A	479.593	02 420/	1105		41.55°C	0.962
40%	12.059V	5.132V	3.319V	5.016V	518.928	92.42%	1185		47.1°C	229.81V
E00/	45.542A	4.884A	4.991A	1.802A	599.36	02 1760/	1242	(dB[A])         <6.0	42.36°C	0.97
50%	12.051V	5.12V	3.306V	4.995V	650.235	92.176%	1342	39.0	48.36°C	229.78V
600/	54.806A	5.875A	6.013A	2A	719.818	01.0720/	1240	39.7	42.88°C	0.974
60%	12.044V	5.107V	3.293V	4.974V	782.65	91.973%	1348	39.7	49.43°C	229.77V
700/	64.018A	6.869A	7.043A	2.222A	839.591	91.631%	1255	20.0	43.2°C	0.976
70%	12.035V	5.096V	3.281V	4.951V	916.275	91.051%	1355	59.9	50.22°C	229.74V
000/	73.312A	7.869A	8.082A	2.331A	959.568	01 2059/	1406	41.6	43.95°C	0.978
80%	12.026V	5.082V	3.267V	4.933V	1052.096	91.205%	1486	41.0	51.99°C	229.72V
000/	82.951A	8.379A	8.601A	2.441A	1079.37	00 0070/	1400	41 7	44.39°C	0.98
90%	12.017V	5.072V	3.256V	4.915V	1188.648	90.807%	1492	41.7	53.45°C	229.7V
1000/	92.416A	8.891A	9.155A	3.078A	1199.39	00 25 40/	1614	(dB[A])         <6.0	45.73°C	0.982
100%	12.008V	5.061V	3.244V	4.874V	1328.909	90.254%	1614	43.4	55.75°C	229.68V
1100/	101.830A	9.906A	10.309A	3.087A	1320.011	00 6000/	1622	42.4	46.65°C	0.984
110%	11.997V	5.047V	3.23V	4.859V	1471.785	89.688%	1622	43.4	57.55°C	229.66V
01	0.117A	14.058A	14.436A	0A	121.306	70 62 40/	0	-6.0	48.6°C	0.867
CL1	12.056V	5.135V	3.305V	5.096V	152.353	79.624%	0	<0.0	43.13°C	229.87V
<b>C</b> 12	0.116A	19.34A	0A	0A	101.373	78.158%	0	-6.0	(In/Out)         44.25°C         40.01°C         45.18°C         40.64°C         41.3°C         46.38°C         41.55°C         47.1°C         42.36°C         49.43°C         43.2°C         50.22°C         43.95°C         51.99°C         44.39°C         55.75°C         46.65°C         57.55°C         48.6°C	0.831
CL2	12.056V	5.169V	3.349V	5.103V	129.702	/0.138%	0	<0.0	42.13°C	229.87V
(1.2	0.115A	0A	19.885A	0A	67.403	72 0050/	0	-60	50.84°C	0.74
CL3	12.059V	5.168V	3.32V	5.103V	93.505	72.085%	0	<0.0	(In/Out)         44.25°C         40.01°C         45.18°C         40.64°C         41.3°C         46.38°C         41.55°C         47.1°C         48.36°C         49.43°C         43.2°C         50.22°C         44.39°C         51.99°C         55.75°C         46.65°C         57.55°C         48.6°C         43.13°C         45.73°C         57.55°C         48.6°C         43.13°C         48.6°C         43.13°C         48.6°C         43.13°C         43.13°C	229.87V
	99.963A	0A	0A	0.001A	1199.985	00 700/	1007	42.2	45.42°C	0.982
CL4	12.004V	5.109V	3.294V	5.011V	1322.749	90.72%	1607	43.3	56.38°C	229.68V

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## Anex

## Maxpower MP-1200W-U-G

20-80W LOAD TESTS 230V									
12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
1.228A	0.482A	0.489A	0.195A	20.012	C2 4000/	0	-6.0	39.64°C	0.388
12.107V	5.189V	3.373V	5.118V	31.527	63.489%	0	<6.0	36.56°C	229.89V
2.706A	0.675A	0.685A	0.293A	40.004	72.2400/	0	<u> </u>	40.6°C	0.572
12.083V	5.189V	3.371V	5.112V	54.543	73.348%	0	<0.0	37.24°C	229.89V
4.184A	0.867A	0.881A	0.392A	60.002	77 6 400/	0	<b>C</b> 0	41.5°C	0.682
12.077V	5.187V	3.369V	5.105V	77.274	77.049%	0	<0.0	38.02°C	229.88V
5.660A	1.061A	1.078A	0.49A	79.952	01 5 60/	0	<b>C O</b>	42.89°C	0.753
12.071V	5.186V	3.368V	5.098V	98.026	81.30%	U	<0.0	39.01°C	229.88V
	12V         1.228A         12.107V         2.706A         12.083V         4.184A         12.077V         5.660A	12V         5V           1.228A         0.482A           12.107V         5.189V           2.706A         0.675A           12.083V         5.189V           4.184A         0.867A           12.077V         5.187V           5.660A         1.061A	12V         5V         3.3V           1.228A         0.482A         0.489A           12.107V         5.189V         3.373V           2.706A         0.675A         0.685A           12.083V         5.189V         3.371V           4.184A         0.867A         0.881A           12.077V         5.187V         3.369V           5.660A         1.061A         1.078A	12V         5V         3.3V         5VSB           1.228A         0.482A         0.489A         0.195A           12.107V         5.189V         3.373V         5.118V           2.706A         0.675A         0.685A         0.293A           12.083V         5.189V         3.371V         5.112V           4.184A         0.867A         0.881A         0.392A           12.077V         5.187V         3.369V         5.105V           5.660A         1.061A         1.078A         0.49A	12V5V3.3V5VSBDC/AC (Watts)1.228A0.482A0.489A0.195A20.01212.107V5.189V3.373V5.118V31.5272.706A0.675A0.685A0.293A40.00412.083V5.189V3.371V5.112V54.5434.184A0.867A0.881A0.392A60.00212.077V5.187V3.369V5.105V77.2745.660A1.061A1.078A0.49A79.952	12V         5V         3.3V         5VSB         DC/AC (Watts)         Efficiency           1.228A         0.482A         0.489A         0.195A         20.012         3.373V           12.107V         5.189V         3.373V         5.118V         31.527         3.489%           12.107V         5.189V         3.371V         5.118V         31.527         3.348%           12.083V         0.675A         0.685A         0.293A         40.004         3.348%           12.083V         5.189V         3.371V         5.112V         54.543         3.348%           12.083V         5.189V         3.371V         5.112V         54.543         3.348%           12.077V         5.187V         3.369V         5.105V         77.274         77.649%           12.077V         5.187V         3.369V         5.105V         77.274         81.56%	12V5V3.3V5VSB $DC/AC$ (Watts)Efficiency $Fan Speed$ (RPM)1.228A0.482A0.489A0.195A20.012 $3.373V$ 5.118V31.52712.107V5.189V3.373V5.118V31.527 $3.489\%$ $0$ 2.706A0.675A0.685A0.293A40.004 $7.3348\%$ $0$ 12.083V5.189V3.371V5.112V54.543 $7.348\%$ $0$ 12.083V5.189V3.371V5.112V54.543 $0$ 12.077V5.187V3.369V5.105V77.274 $7.649\%$ $0$ 12.077V5.187V3.369V5.105V77.274 $7.649\%$ $0$	12V         5V         3.3V         5VSB         DC/AC (Watts)         Efficiency         Fan Speed (RPM)         PSU Noise (dB[A])           1.228A         0.482A         0.489A         0.195A         20.012 $3.373V$ 5.118V         31.527 $0.489A$ 0.195A         20.012 $3.373V$ 5.118V         31.527 $0.1675A$ 0.685A         0.293A         40.004 $73.348\%$ $0$ $-6.0$ 12.083V         5.189V         3.371V         5.112V         54.543 $0.685A$ 0.293A         40.004 $73.348\%$ $0$ $-6.0$ 12.083V         5.189V         3.371V         5.112V         54.543 $0$ $-6.0$ 12.077V         5.187V         3.369V         5.105V         77.274 $77.649\%$ $0$ $-6.0$ 12.077V         5.187V         3.369V         5.105V         77.274 $81.56\%$ $0$ $-6.0$	12V         5V         3.3V         5VSB         DC/AC (Watts)         Efficiency         Fan Speed (RPM)         PSU Noise (dB[A])         Temps (in/Out)           1.228A         0.482A         0.489A         0.195A         20.012 $a_{3.489\%}$ $0$ $a_{6.0}$ 39.64°C           12.107V         5.189V         3.373V         5.118V         31.527 $a_{3.489\%}$ $0$ $a_{6.0}$

#### **RIPPLE MEASUREMENTS 230V**

12V	5V	3.3V	5VSB	Pass/Fail
17.50mV	13.49mV	13.71mV	12.17mV	Pass
63.56mV	14.51mV	14.68mV	13.71mV	Pass
41.05mV	15.53mV	13.97mV	13.14mV	Pass
30.03mV	15.79mV	14.73mV	14.58mV	Pass
31.93mV	18.03mV	15.86mV	15.34mV	Pass
35.30mV	19.82mV	17.19mV	17.29mV	Pass
38.32mV	22.89mV	17.50mV	17.95mV	Pass
40.36mV	23.50mV	19.80mV	19.49mV	Pass
44.10mV	24.98mV	19.85mV	20.20mV	Pass
57.79mV	28.54mV	23.46mV	22.42mV	Pass
60.76mV	31.71mV	24.97mV	26.06mV	Pass
22.32mV	24.69mV	17.87mV	14.27mV	Pass
19.80mV	17.57mV	13.45mV	12.68mV	Pass
19.13mV	29.63mV	18.31mV	13.25mV	Pass
56.29mV	25.02mV	22.70mV	21.96mV	Pass
	<ul> <li>17.50mV</li> <li>63.56mV</li> <li>41.05mV</li> <li>30.03mV</li> <li>31.93mV</li> <li>35.30mV</li> <li>38.32mV</li> <li>40.36mV</li> <li>44.10mV</li> <li>57.79mV</li> <li>60.76mV</li> <li>22.32mV</li> <li>19.80mV</li> <li>19.13mV</li> </ul>	17.50mV       13.49mV         63.56mV       14.51mV         41.05mV       15.53mV         30.03mV       15.79mV         31.93mV       18.03mV         35.30mV       19.82mV         38.32mV       22.89mV         44.10mV       24.98mV         57.79mV       28.54mV         60.76mV       31.71mV         19.80mV       17.57mV         19.80mV       24.69mV	17.50mV       13.49mV       13.71mV         63.56mV       14.51mV       14.68mV         41.05mV       15.53mV       13.97mV         30.03mV       15.79mV       14.73mV         31.93mV       18.03mV       15.86mV         35.30mV       19.82mV       17.19mV         38.32mV       22.89mV       17.50mV         40.36mV       23.50mV       19.80mV         44.10mV       24.98mV       19.85mV         57.79mV       28.54mV       23.46mV         60.76mV       31.71mV       24.97mV         19.80mV       17.57mV       13.45mV         19.80mV       17.57mV       13.45mV	17.50mV13.49mV13.71mV12.17mV63.56mV14.51mV14.68mV13.71mV41.05mV15.53mV13.97mV13.14mV30.03mV15.79mV14.73mV14.58mV31.93mV18.03mV15.86mV15.34mV35.30mV19.82mV17.19mV17.29mV38.32mV22.89mV17.50mV19.98mV40.36mV23.50mV19.80mV19.49mV44.10mV24.98mV23.46mV20.20mV57.79mV28.54mV23.46mV26.06mV22.32mV24.69mV17.87mV14.27mV19.80mV17.57mV13.45mV12.68mV19.30mV17.57mV13.45mV12.68mV

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## Anex

Maxpower MP-1200W-U-G



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