

#### **Anex**

Montech Titan Gold 1000W

Lab ID#: MT10002119

Receipt Date: Jan 20, 2023

Test Date: Jan 25, 2023

Report: 23PS2119A

Report Date: Jan 27, 2023

DUT INFORMATION				
Brand	Montech			
Manufacturer (OEM)	CWT			
Series	Titan			
Model Number	TIS0125			
Serial Number	TITAN1000221100186			
DUT Notes				

DUT SPECIFICATIONS					
Rated Voltage (Vrms)	100-240				
Rated Current (Arms)	6.5-15				
Rated Frequency (Hz)	50-60				
Rated Power (W)	1000				
Туре	ATX12V				
Cooling	135mm Fluid Dynamic Bearing Fan (HA13525H12SF-Z)				
Semi-Passive Operation	✓ (selectable)				
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 3.0 Ready	/

115V	
Average Efficiency	88.950%
Efficiency With 10W (≤500W) or 2% (>500W)	83.377
Average Efficiency 5VSB	79.054%
Standby Power Consumption (W)	0.0170000
Average PF	0.989
Avg Noise Output	30.93 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	Standard++

230V	
Average Efficiency	90.954%
Average Efficiency 5VSB	77.924%
Standby Power Consumption (W)	0.0563000
Average PF	0.964
Avg Noise Output	29.11 dB(A)
Efficiency Rating (ETA)	GOLD
Noise Rating (LAMBDA)	A-

POWER SPECIFICATIONS						
Rail		3.3V	5V	12V	5VSB	-12V
Mary Danier	Amps	22	22	83.5	3	0.3
Max. Power	Watts	120		1000	15	3.6
Total Max. Power (W)		1000				

HOLD-UP TIME & POWER OK SIGNAL (230V)				
Hold-Up Time (ms)	20.3			
AC Loss to PWR_OK Hold Up Time (ms)	17.8			
PWR_OK Inactive to DC Loss Delay (ms)	2.5			

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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 (700mm)	1	1	16AWG	No
8 pin EPS12V (700mm)	1	1	16AWG	No
6+2 pin PCle (500mm+150mm)	2	4	16-18AWG	No
6+2 pin PCle (600mm)	1	1	16AWG	No
12+4 pin PCle (600mm) (600W)	1	1	16-24AWG	No
SATA (500mm+150mm+150mm+150mm)	3	12	18AWG	No
4-pin Molex (500mm+120mm+120mm+120mm)	1	4	18AWG	No
AC Power Cord (1400mm) - C13 coupler	1	1	18AWG	-

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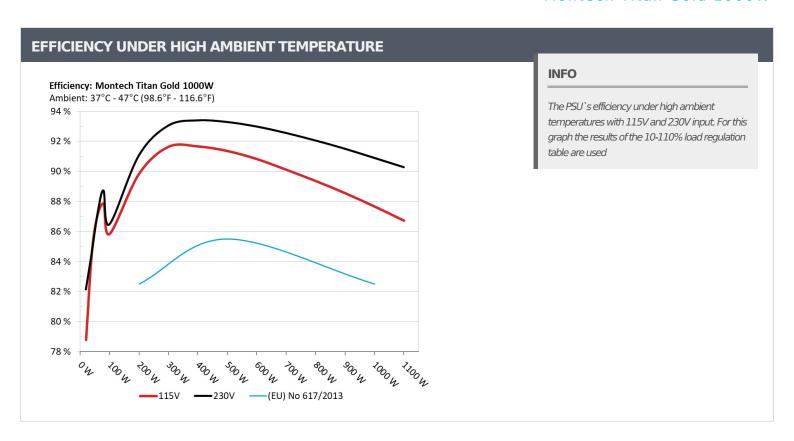
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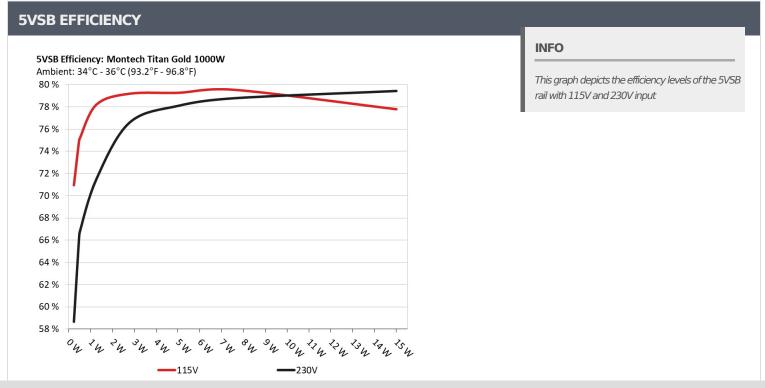
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5VSB EFFI	CIENCY -115V (ERF	P LOT 3/6 & CEC)		
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.228W	71.2240/	0.032
1	5.057V	0.32W	71.234%	114.87V
2	0.09A	0.455W	75.0050/	0.06
2	5.056V	0.606W	75.085%	114.86V
2	0.55A	2.775W	70.4000/	0.27
3	5.047V	3.491W	79.492%	114.87V
	1A	5.038W	70.5720/	0.361
4	5.038V	6.331W	79.573%	114.87V
_	1.5A	7.544W	<b></b>	0.422
5	5.029V	9.448W	79.848%	114.86V
-	3A	15.006W	70.0020/	0.5
6	5.002V	19.215W	78.093%	114.86V

0.045A     0.227W       5.055V     0.385W       0.09A     0.455W       5.054V     0.687W       0.55A     2.775W       5.045V     3.61W       1A     5.037W       5.037V     6.424W	5VSB EFFIC	CIENCY -230V (ERP	LOT 3/6 & CEC)		
5.055V     0.385W     58.961%       0.09A     0.455W     0.02       5.054V     0.687W     66.241%       0.55A     2.775W     76.885%       5.045V     3.61W     229.87V       1A     5.037W     78.412%       5.037V     6.424W	Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
5.055V     0.385W     229.88V       0.09A     0.455W     66.241%       5.054V     0.687W     229.88V       0.55A     2.775W     76.885%       5.045V     3.61W     229.87V       1A     5.037W     78.412%       5.037V     6.424W     78.412%	1	0.045A	0.227W	E0.0C10/	0.011
5.054V     0.687W       0.55A     2.775W       5.045V     3.61W       1A     5.037W       5.037V     6.424W	1	5.055V	0.385W	58.961%	229.88V
5.054V     0.687W     229.88V       0.55A     2.775W     76.885%       5.045V     3.61W     229.87V       1A     5.037W     78.412%       5.037V     6.424W     78.412%	2	0.09A	0.455W	66.2410/	0.02
5.045V 3.61W 76.885% 229.87V  1A 5.037W 78.412% 229.88V	2	5.054V	0.687W	66.241%	229.88V
5.045V 3.61W 229.87V  1A 5.037W 0.172  5.037V 6.424W 229.88V		0.55A	2.775W	75.0050/	0.103
5.037V 6.424W 78.412% 229.88V	3	5.045V	3.61W	/6.885%	229.87V
5.037V 6.424W 229.88V	4	1A	5.037W	70.4120/	0.172
1.5A 7.542W 0.233	4	5.037V	6.424W	/8.412%	229.88V
	_	1.5A	7.542W	70.000/	0.233
5.028V 9.537W 79.08% 229.88V	5	5.028V	9.537W	/9.08%	229.88V
3A 15.003W 0.334		3A	15.003W	70 72 40/	0.334
5.001V 18.816W 79.734% 229.88V	6	5.001V	18.816W	/9./34%	229.88V

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Anex

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# 115V

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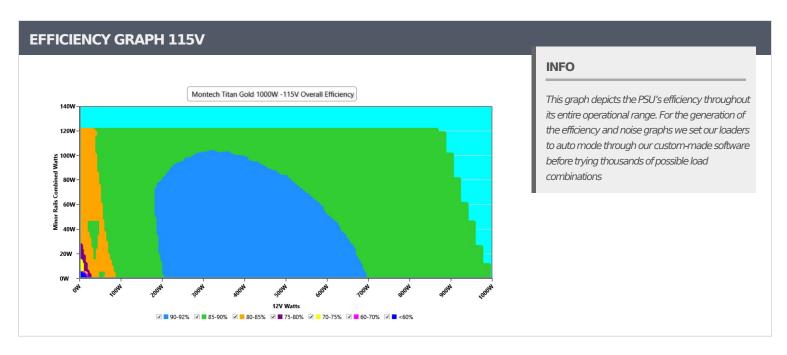
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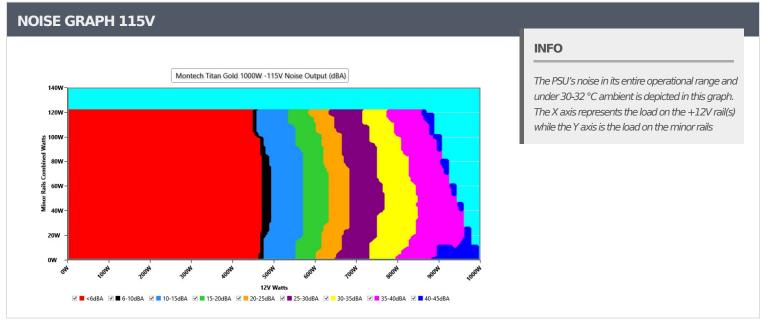
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VAMPIRE POWER -115V							
Detailed Results							
	Average	Min	Limit Min	Max	Limit Max	Result	
Mains Voltage RMS:	114.87 V	114.84 V	113.85 V	114.91 V	116.15 V	PASS	
Mains Frequency:	60.00 Hz	59.93 Hz	59.40 Hz	60.02 Hz	60.60 Hz	PASS	
Mains Voltage CF:	1.417	1.416	1.340	1.418	1.490	PASS	
Mains Voltage THD:	0.14 %	0.12 %	N/A	0.19 %	2.00 %	PASS	
Real Power:	0.017 W	0.015 W	N/A	0.019 W	N/A	N/A	
Apparent Power:	9.987 W	9.962 W	N/A	10.009 W	N/A	N/A	
Power Factor:	0.002	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/	6.440A	1.989A	2.014A	0.992A	99.961	05.2400/	0	-00	44.36°C	0.983
10%	12.169V	5.026V	3.277V	5.039V	117.121	85.348%	0	<6.0	40.04°C	114.83
200/	13.889A	2.985A	3.024A	1.193A	199.899	00.2410/	0	-6.0	45.79°C	0.99
20%	12.168V	5.024V	3.273V	5.031V	223.75	89.341%	0	<6.0	41°C	114.8V
2007	21.732A	3.484A	3.531A	1.372A	299.935	03.1.430/	0		46.73°C	0.991
30%	12.143V	5.022V	3.271V	5.101V	329.086	91.141%	0	<6.0	41.52°C	114.77
400/	29.552A	3.984A	4.039A	1.57A	399.35	01.1660/	0		47.33°C	0.988
40%	12.119V	5.019V	3.268V	5.097V	438.047	91.166%	0	<6.0	41.76°C	114.73
E00/	37.062A	4.981A	5.055A	1.768A	499.142	00.0640/	410		42.28°C	0.99
50%	12.105V	5.018V	3.264V	5.09V	549.329	90.864%	412	<6.0	48.23°C	114.71
C00/	44.648A	5.978A	6.071A	1.968A	599.684	00.2200/	660	15.0	42.72°C	0.992
60%	12.092V	5.018V	3.262V	5.083V	663.901	90.328%	668	15.8	49.17°C	114.66
700/	52.187A	6.975A	7.088A	2.167A	699.437	00.630/	000	000 20.6	43.51°C	0.993
70%	12.078V	5.018V	3.259V	5.075V	780.445	89.62%	989	28.6	50.57°C	114.62
000/	59.823A	7.974A	8.105A	2.269A	799.461	00.000/	1051	20.0	43.75°C	0.994
80%	12.062V	5.017V	3.257V	5.067V	899.606	88.868%	1351	38.8	52.01°C	114.59
000/	67.797A	8.474A	8.604A	2.372A	899.273	00.0640/	1640	42.4	44.67°C	0.994
90%	12.048V	5.015V	3.254V	5.06V	1021.159	88.064%	1649	43.4	53.74°C	114.55
1000/	75.537A	8.976A	9.134A	2.975A	999.312	07.1740/	1000	40.4	45.58°C	0.995
100%	12.042V	5.013V	3.251V	5.043V	1146.349	87.174%	1989	48.4	55.61°C	114.52
1100/	83.215A	9.978A	10.251A	2.978A	1099.934	06.2200/	2161	F0.3	46.51°C	0.995
110%	12.037V	5.011V	3.248V	5.037V	1275.607	86.229%	2161	50.3	57.42°C	114.47
CL 1	1.972A	14.391A	14.596A	0.496A	146.418	04.4540/	406	0.4	40.39°C	0.989
CL1	12.176V	5.018V	3.268V	5.041V	173.369	84.454%	496	8.4	45.85°C	114.81
CI 2	1.970A	21.272A	1.007A	0.495A	136.415	83.331%	410	-6.0	40.66°C	0.988
CL2	12.182V	5.012V	3.276V	5.047V	47V 163.703	419	<6.0	47.68°C	114.82	
CI 2	1.970A	0.995A	20.728A	0.496A	99.1	70.220/	410	-6.0	42.01°C	0.985
CL3	12.181V	5.024V	3.261V	5.042V	125.097	79.22%	419	<6.0	51.03°C	114.83
CL 4	82.082A	0.996A	1.013A	0.491A	999.499	07.7620/	1000	40 F	45.77°C	0.995
CL4	12.045V	5.019V	3.257V	5.095V	1138.883	87.762%	1996	48.5	56.62°C	114.52

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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	1.224A	0.495A	0.502A	0.198A	19.983	70.20.40/	78.294% 0	<6.0	39.57°C	0.802
20W	12.125V	5.046V	3.287V	5.055V	25.522	78.294%			36.5°C	114.86V
40\4	2.696A	0.694A	0.703A	0.297A	39.985	84.194%	0	<6.0	41.11°C	0.927
40W	12.121V	5.045V	3.287V	5.053V	47.49				37.78°C	114.85V
60144	4.166A	0.894A	0.905A	0.396A	59.984	06.6070/	0	<6.0	42.44°C	0.959
60W	12.127V	5.034V	3.28V	5.05V	69.2	86.687%	0		38.68°C	114.85V
00144	5.632A	1.093A	1.107A	0.495A	79.911		0	<6.0	43.19°C	0.974
80W	12.126V	5.029V	3.278V	5.048V	91.499	87.336%	0		39.28°C	114.83V

RIPPLE MEASURE	MENTS 115V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	11.87mV	8.16mV	9.23mV	6.57mV	Pass
20% Load	10.38mV	8.83mV	9.13mV	7.13mV	Pass
30% Load	14.63mV	8.67mV	10.31mV	7.95mV	Pass
40% Load	15.60mV	9.03mV	10.16mV	7.54mV	Pass
50% Load	14.52mV	9.70mV	10.62mV	7.60mV	Pass
60% Load	15.70mV	9.60mV	11.49mV	7.49mV	Pass
70% Load	14.37mV	10.62mV	17.08mV	8.83mV	Pass
80% Load	14.78mV	9.96mV	12.78mV	9.60mV	Pass
90% Load	15.96mV	9.75mV	13.80mV	9.44mV	Pass
100% Load	20.64mV	10.42mV	13.97mV	12.53mV	Pass
110% Load	21.24mV	10.11mV	14.32mV	12.92mV	Pass
Crossload1	12.37mV	10.19mV	14.35mV	6.98mV	Pass
Crossload2	18.92mV	19.24mV	9.90mV	7.60mV	Pass
Crossload3	11.87mV	8.57mV	15.70mV	7.08mV	Pass
Crossload4	19.50mV	9.38mV	11.60mV	7.77mV	Pass

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# 230V

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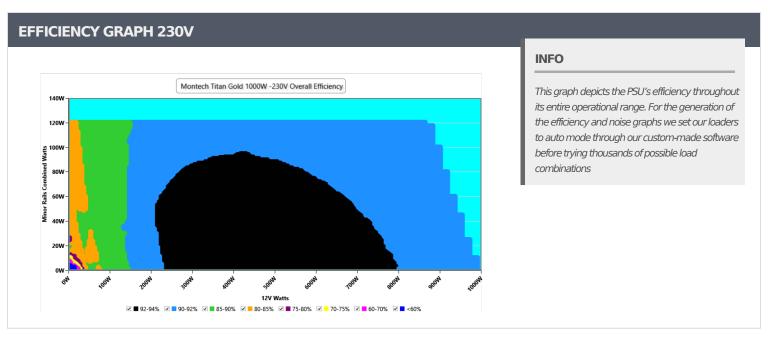
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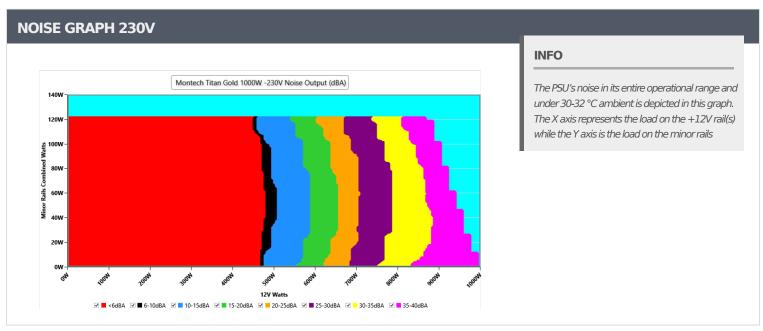
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VAMPIRE POWER -230V											
Detailed Results											
	Average	Min	Limit Min	Мах	Limit Max	Result					
Mains Voltage RMS:	229.88 V	229.82 V	227.70 V	229.91 V	232.30 V	PASS					
Mains Frequency:	50.00 Hz	50.00 Hz	49.50 Hz	50.00 Hz	50.50 Hz	PASS					
Mains Voltage CF:	1.416	1.415	1.340	1.417	1.490	PASS					
Mains Voltage THD:	0.14 %	0.12 %	N/A	0.16 %	2.00 %	PASS					
Real Power:	0.056 W	0.053 W	N/A	0.060 W	N/A	N/A					
Apparent Power:	33.608 W	33.584 W	N/A	33.632 W	N/A	N/A					
Power Factor:	0.002	N/A	N/A	N/A	N/A	N/A					

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100/	6.439A	1.99A	2.015A	0.992A	99.974	07.00.40/	0	.00	44.67°C	0.876
10%	12.172V	5.026V	3.276V	5.039V	116.256	85.994%	0	<6.0	40.34°C	229.87
200/	13.888A	2.986A	3.025A	1.193A	199.918	00 5670/	0	-6.0	45.63°C	0.951
20%	12.169V	5.023V	3.272V	5.03V	220.741	90.567%	0	<6.0	40.89°C	229.86
200/	21.732A	3.485A	3.532A	1.372A	299.962	02.5500/	0	.00	46.25°C	0.97
30%	12.144V	5.022V	3.27V	5.102V	324.094	92.556%	0	<6.0	41.09°C	229.84
400/	29.539A	3.983A	4.04A	1.569A	399.446	92.901%	0	-6.0	47.29°C	0.978
40%	12.128V	5.021V	3.268V	5.099V	429.968	92.901%	0	<6.0	41.6°C	229.83
E00/	37.057A	4.981A	5.054A	1.768A	499.178	02.7050/	<i>4</i> 1E	-6.0	41.95°C	0.981
50%	12.108V	5.019V	3.265V	5.09V	537.94	92.795%	415	<6.0	47.85°C	229.81
CO0/	44.648A	5.979A	6.069A	1.968A	599.729	02.4020/	751	10.7	42.54°C	0.983
60%	12.093V	5.018V	3.262V	5.082V	648.414	92.492%		19.7	48.83°C	229.79
700/	52.197A	6.976A	7.086A	2.168A	699.478	02.0650/	001	20.6	43.39°C	0.985
70%	12.077V	5.017V	3.26V	5.073V	759.765	92.065%	991	28.6	50.43°C	229.77
000/	59.835A	7.975A	8.104A	2.27A	799.511	01 5650/	1267	20.0	43.74°C	0.986
80%	12.060V	5.016V	3.257V	5.066V	873.168	91.565%	1367	38.9	51.82°C	229.76
000/	67.805A	8.475A	8.603A	2.372A	899.321	- 01.0100/	1750	45.6	44.55°C	0.987
90%	12.047V	5.015V	3.254V	5.059V	988.076	91.018%	1759	45.0	53.65°C	229.74
1000/	75.543A	8.977A	9.133A	2.975A	999.351	90.409%	2003	48.6	45.01°C	0.988
100%	12.042V	5.013V	3.252V	5.042V	1105.372	90.409%	2005	40.0	55.02°C	229.72
110%	83.225A	9.979A	10.25A	2.979A	1099.965	89.789%	2162	50.2	46.5°C	0.989
110%	12.036V	5.011V	3.248V	5.035V	1225.059	09.769%	2162	50.3	57.36°C	229.7V
CL1	1.972A	14.392A	14.595A	0.496A	146.421	OF 16E0/	51/	0.2	42.17°C	0.93
CL1	12.176V	5.017V	3.268V	5.04V	171.922	85.165%	514	9.2	47.65°C	229.86
CL2	1.970A	21.272A	1.007A	0.495A	136.425	92.0060/	422	<b>-6</b> 0	42°C	0.924
CLZ	12.183V	5.012V	3.276V	5.046V	162.419	83.996%	422	<6.0	49.06°C	229.86
CI 2	1.970A	0.995A	20.728A	0.496A	99.102	- 00.1600/	420	-6.0	42.37°C	0.887
CL3	12.183V	5.024V	3.261V	5.042V	123.619	80.169%	420	<6.0	51.41°C	229.87
Cl 4	82.088A	0.996A	1.013A	0.491A	999.533	00.0040/	1002	40.5	45.86°C	0.988
CL4	12.045V	5.019V	3.257V	5.094V	1098.466	90.994%	1993	48.5	56.74°C	229.73

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Anex

Montech Titan Gold 1000W

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
2014	0.399A	0.495A	0.502A	0.198A	9.988	71.098% 0	0	<6.0	39.58°C	0.269
20W	12.128V	5.046V	3.287V	5.057V	14.052		U		36.53°C	229.89V
40)44	1.046A	0.694A	0.703A	0.297A	19.988	81.035%	0	<6.0	40.59°C	0.43
40W	12.128V	5.045V	3.287V	5.054V	25.393				37.24°C	229.89V
6014	1.692A	0.894A	0.905A	0.396A	29.987	03.4400/	•	<6.0	41.75°C	0.529
60W	12.128V	5.034V	3.281V	5.052V	36.819	81.449%	0		38.26°C	229.89V
00144	2.339A	1.093A	1.107A	0.495A	39.988	83.788%	•	<6.0	42.85°C	0.625
80W	12.125V	5.029V	3.279V	5.05V	47.735		0		39.04°C	229.89V

RIPPLE MEASURI	EMENTS 230V				
Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	13.66mV	7.90mV	8.98mV	6.57mV	Pass
20% Load	12.33mV	8.62mV	9.70mV	6.57mV	Pass
30% Load	14.99mV	9.24mV	10.42mV	8.05mV	Pass
40% Load	15.75mV	9.44mV	10.21mV	7.59mV	Pass
50% Load	14.42mV	8.88mV	10.36mV	7.34mV	Pass
60% Load	12.63mV	8.93mV	12.88mV	7.80mV	Pass
70% Load	14.47mV	12.83mV	17.08mV	9.29mV	Pass
80% Load	14.37mV	9.29mV	12.52mV	9.29mV	Pass
90% Load	15.70mV	9.70mV	13.49mV	8.98mV	Pass
100% Load	23.07mV	10.71mV	14.28mV	12.01mV	Pass
110% Load	23.60mV	11.48mV	15.49mV	11.68mV	Pass
Crossload1	13.74mV	10.62mV	13.64mV	7.79mV	Pass
Crossload2	16.11mV	18.02mV	10.16mV	7.18mV	Pass
Crossload3	13.76mV	8.83mV	15.49mV	7.59mV	Pass
Crossload4	22.77mV	10.67mV	11.47mV	8.62mV	Pass

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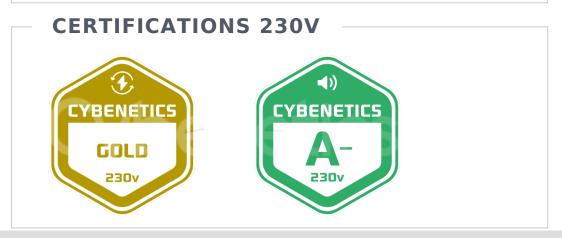
#### Anex

#### Montech Titan Gold 1000W









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