## Anex

Cooler Master MWE Gold 850 V2 (Fixed)

Lab ID#: CM85001847
Receipt Date: May 6, 2021
Test Date: May 24, 2021

Report: 21PS1847A
Report Date: May 24, 2021

## DUT INFORMATION

| | |
|---|---|
| Brand | Cooler Master |
| Manufacturer (OEM) | Huizhou Xin Hui Yuan Tech (Fusion Power) |
| Series | MWE Gold V2 |
| Model Number | MPE-8501-ACAAG-U2 |
| Serial Number | MPE8501ACAAGU21205200001 |
| 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 | 120mm Fluid Dynamic Bearing Fan (HA1225H12F-Z) |
| Semi-Passive Operation | ✗ |
| Cable Design | Fixed cables |

## TEST EQUIPMENT

| | |
|---|---|
| Electronic Loads | Chroma 63601-5 x4<br>Chroma 63600-2 x2<br>63640-80-80 x20<br>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 | ✓ |

## 115V

| | |
|---|---|
| Average Efficiency | 88.544% |
| Efficiency With 10W (≤500W) or 2% (>500W) | 62.127 |
| Average Efficiency 5VSB | 81.863% |
| Standby Power Consumption (W) | 0.1039970 |
| Average PF | 0.990 |
| Avg Noise Output | 35.11 dB(A) |
| Efficiency Rating (ETA) | GOLD |
| Noise Rating (LAMBDA) | Standard+ |

## 230V

| | |
|---|---|
| Average Efficiency | 90.724% |
| Average Efficiency 5VSB | 81.103% |
| Standby Power Consumption (W) | 0.1631680 |
| Average PF | 0.955 |
| Avg Noise Output | 34.43 dB(A) |
| Efficiency Rating (ETA) | GOLD |
| Noise Rating (LAMBDA) | Standard++ |

## 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 |
| AC Loss to PWR_OK Hold Up Time (ms) | 16.9 |
| PWR_OK Inactive to DC Loss Delay (ms) | 3.1 |

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### CABLES AND CONNECTORS

#### Captive Cables

| Description | Cable Count | Connector Count (Total) | Gauge | In Cable Capacitors |
|---|---|---|---|---|
| ATX connector 20+4 pin (620mm) | 1 | 1 | 18-22AWG | No |
| 8 pin EPS12V (630mm) / 4+4 pin EPS12V (+125mm) | 1 | 1 / 1 | 16-18AWG | No |
| 6+2 pin PCIe (590mm+120mm) | 2 | 4 | 16-18AWG | No |
| SATA (510mm+125mm+125mm+125mm) | 3 | 12 | 18AWG | No |
| 4-pin Molex (510mm+125mm+125mm+125mm) | 1 | 4 | 18AWG | No |

#### Modular Cables

| | | | | |
|---|---|---|---|---|
| AC Power Cord (1370mm) - C13 coupler | 1 | 1 | 18AWG | - |







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## Anex

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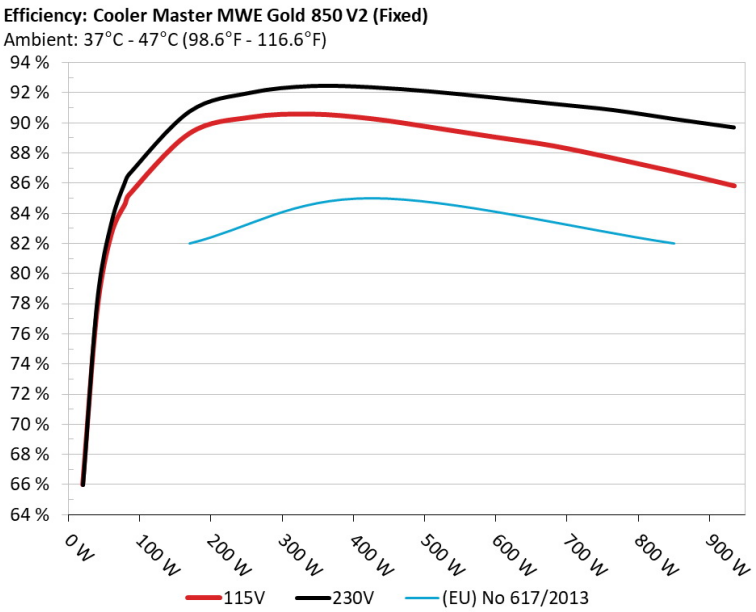
| General Data | |
|---|---|
| Manufacturer (OEM) | Huizhou Xin Hui Yuan Tech (Fusion Power) |
| PCB Type | Double Sided |
| **Primary Side** | |
| Transient Filter | 4x Y caps, 3x X caps, 2x CM chokes, 1x MOV |
| Inrush Protection | NTC Thermistor MF72 5D15 (5Ohm) & Relay |
| Bridge Rectifier(s) | 2x GBU15J (600V, 15A @ 100°C) |
| APFC MOSFETs | 2x NCE Power NCE65TF130 (650V, 18A @ 100°C, Rds(on): 0.13Ohm) |
| APFC Boost Diode | 1x ON Semiconductor RHRP1560 (600V, 15A @ 140°C) |
| Bulk Cap(s) | 1x Ltec (400V, 680uF, 2,000h @ 105°C, HP) |
| Main Switchers | 4x Great Power GPT13N50DG (500V, 13A, Rds(on): 0.49Ohm) |
| APFC Controller | ON Semiconductor NCP1654 |
| Resonant Controller | Champion CM6901T6X |
| Topology | Primary side: APFC, Full-Bridge & LLC converter<br>Secondary side: Synchronous Rectification & DC-DC converters |
| **Secondary Side** | |
| +12V MOSFETs | 4x Excelliance MOS Corp EMP16N04HS (40V, 100A @ 100°C, Rds(on): 1.6mOhm) |
| 5V & 3.3V | DC-DC Converters: 4x Excelliance MOS Corp EMB06N03HR (30V, 45A @ 100°C, Rds(on): 6mOhm)<br>PWM Controller(s): ANPEC APW7159C |
| Filtering Capacitors | Electrolytic: 5x Ltec (4-7,000h @ 105°C, LZG), 7x Elite (4-10,000h @ 105°C, EY)<br>Polymer: 6x FPCAP, 2x Elite, 4x info |
| Supervisor IC | IN1S313I-DAG |
| Fan Model | Hong Hua HA1225H12F-Z (120mm, 12V, 0.58A, Fluid Dynamic Bearing Fan) |
| **5VSB Circuit** | |
| Rectifier | 1x 45R10C |
| Standby PWM Controller | Excelliance MOS Corp EM8569 |

Anex

Cooler Master MWE Gold 850 V2 (Fixed)

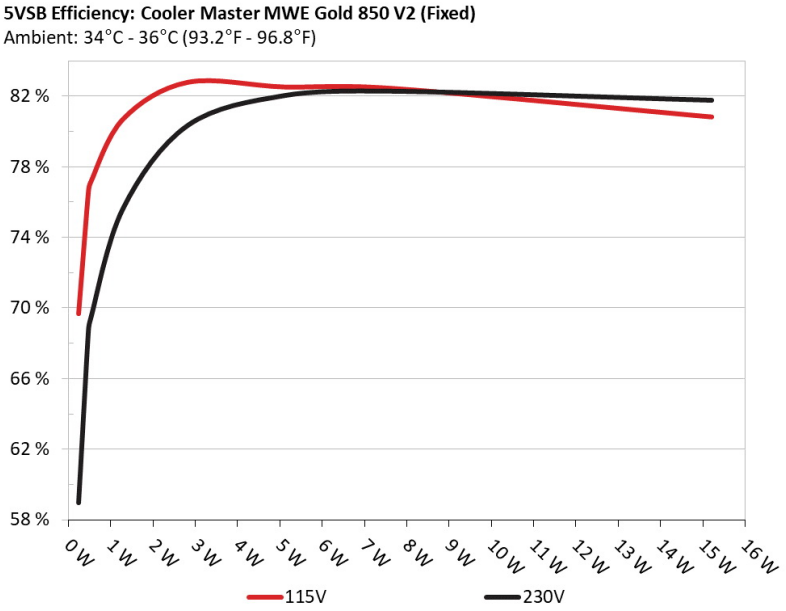
## EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE




**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




**INFO**

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

## Anex

Cooler Master MWE Gold 850 V2 (Fixed)

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

| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
|---|---|---|---|---|
| 1 | 0.045A | 0.230 | 69.697% | 0.040 |
| | 5.120V | 0.330 | | 115.13V |
| 2 | 0.090A | 0.461 | 76.578% | 0.072 |
| | 5.119V | 0.602 | | 115.13V |
| 3 | 0.550A | 2.810 | 82.769% | 0.295 |
| | 5.111V | 3.395 | | 115.13V |
| 4 | 1.000A | 5.102 | 82.503% | 0.388 |
| | 5.103V | 6.184 | | 115.13V |
| 5 | 1.500A | 7.641 | 82.427% | 0.437 |
| | 5.095V | 9.270 | | 115.13V |
| 6 | 2.999A | 15.199 | 80.811% | 0.494 |
| | 5.068V | 18.808 | | 115.12V |

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

| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
|---|---|---|---|---|
| 1 | 0.045A | 0.230 | 58.974% | 0.014 |
| | 5.120V | 0.390 | | 230.25V |
| 2 | 0.090A | 0.461 | 68.703% | 0.025 |
| | 5.119V | 0.671 | | 230.25V |
| 3 | 0.550A | 2.810 | 80.332% | 0.120 |
| | 5.111V | 3.498 | | 230.24V |
| 4 | 1.000A | 5.102 | 82.026% | 0.194 |
| | 5.103V | 6.220 | | 230.24V |
| 5 | 1.500A | 7.641 | 82.267% | 0.255 |
| | 5.095V | 9.288 | | 230.24V |
| 6 | 2.999A | 15.199 | 81.755% | 0.357 |
| | 5.068V | 18.591 | | 230.23V |

Anex

Cooler Master MWE Gold 850 V2 (Fixed)

# 115V







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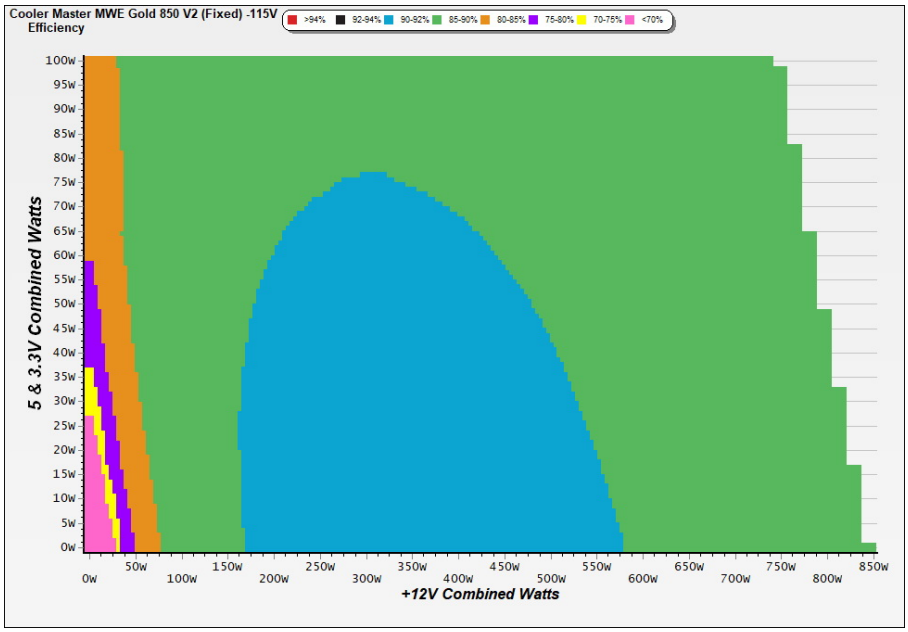
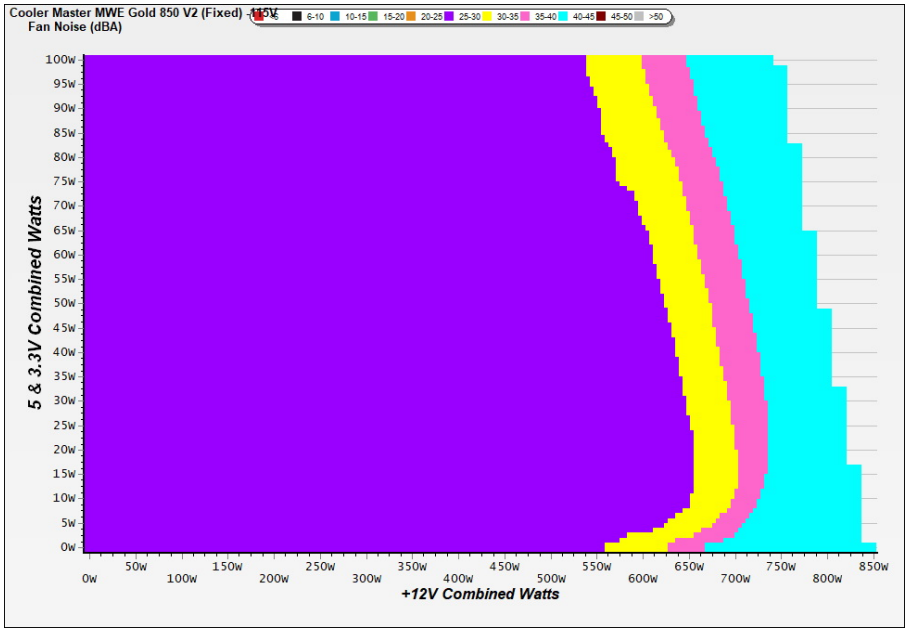
## EFFICIENCY GRAPH 115V




### 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



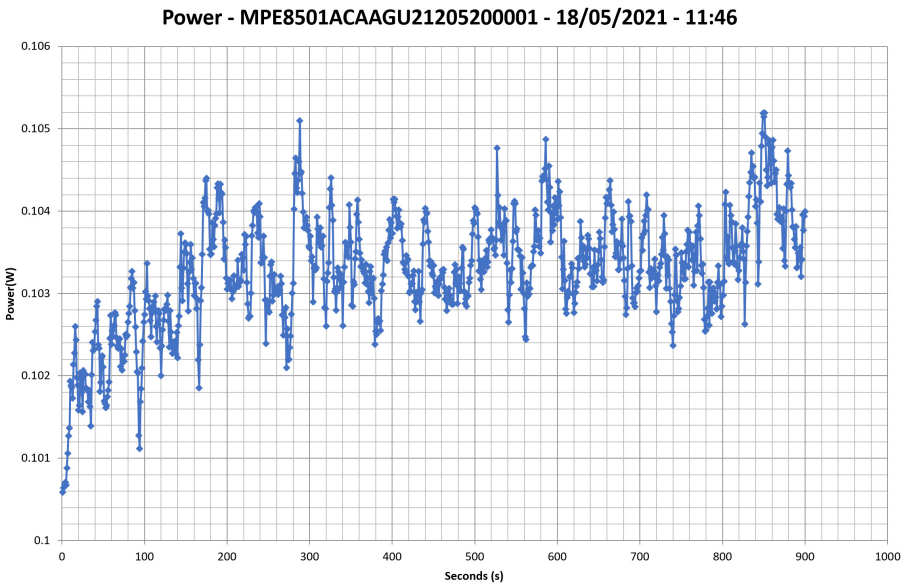

### INFO

*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*

## Anex

Cooler Master MWE Gold 850 V2 (Fixed)

### VAMPIRE POWER -115V




**INFO**

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## Anex

Cooler Master MWE Gold 850 V2 (Fixed)

### 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.242A | 1.978A | 1.965A | 0.982A | 84.951 | 85.216% | 1050 | 25.4 | 40.70°C | 0.974 |
| | 12.085V | 5.056V | 3.359V | 5.093V | 99.689 | | | | 45.32°C | 115.14V |
| 2 | 11.510A | 2.969A | 2.948A | 1.181A | 169.983 | 89.301% | 1052 | 25.7 | 41.02°C | 0.981 |
| | 12.084V | 5.053V | 3.356V | 5.081V | 190.348 | | | | 46.36°C | 115.13V |
| 3 | 18.119A | 3.465A | 3.443A | 1.381A | 254.975 | 90.365% | 1054 | 25.7 | 41.24°C | 0.987 |
| | 12.083V | 5.050V | 3.353V | 5.069V | 282.162 | | | | 47.05°C | 115.13V |
| 4 | 24.735A | 3.962A | 3.942A | 1.581A | 339.972 | 90.578% | 1055 | 25.7 | 41.40°C | 0.993 |
| | 12.079V | 5.047V | 3.350V | 5.058V | 375.336 | | | | 47.83°C | 115.13V |
| 5 | 30.979A | 4.955A | 4.930A | 1.784A | 424.722 | 90.272% | 1067 | 25.4 | 42.64°C | 0.995 |
| | 12.080V | 5.045V | 3.346V | 5.046V | 470.494 | | | | 49.74°C | 115.13V |
| 6 | 37.215A | 5.954A | 5.922A | 1.986A | 509.261 | 89.696% | 1728 | 39.7 | 42.97°C | 0.997 |
| | 12.077V | 5.042V | 3.343V | 5.034V | 567.761 | | | | 50.57°C | 115.12V |
| 7 | 43.524A | 6.948A | 6.916A | 2.189A | 594.563 | 89.077% | 1987 | 43.7 | 43.21°C | 0.997 |
| | 12.073V | 5.038V | 3.340V | 5.022V | 667.469 | | | | 51.44°C | 115.12V |
| 8 | 49.867A | 7.947A | 7.908A | 2.394A | 679.837 | 88.471% | 1995 | 43.8 | 43.86°C | 0.997 |
| | 12.061V | 5.034V | 3.337V | 5.011V | 768.433 | | | | 52.82°C | 115.11V |
| 9 | 56.529A | 8.444A | 8.397A | 2.398A | 764.792 | 87.646% | 2010 | 43.8 | 44.85°C | 0.998 |
| | 12.070V | 5.033V | 3.334V | 5.001V | 872.594 | | | | 54.36°C | 115.10V |
| 10 | 62.978A | 8.950A | 8.915A | 3.010A | 849.636 | 86.764% | 2013 | 43.8 | 46.02°C | 0.998 |
| | 12.067V | 5.028V | 3.330V | 4.981V | 979.247 | | | | 56.45°C | 115.10V |
| 11 | 70.008A | 8.953A | 8.922A | 3.015A | 934.393 | 85.815% | 2015 | 43.8 | 46.73°C | 0.998 |
| | 12.066V | 5.025V | 3.328V | 4.974V | 1088.851 | | | | 57.31°C | 115.10V |
| CL1 | 0.116A | 11.998A | 11.997A | 0.000A | 102.193 | 83.416% | 1054 | 25.7 | 42.45°C | 0.988 |
| | 12.087V | 5.051V | 3.350V | 5.094V | 122.510 | | | | 49.37°C | 115.15V |
| CL2 | 70.817A | 1.000A | 1.000A | 1.000A | 867.801 | 87.288% | 2007 | 43.7 | 46.29°C | 0.998 |
| | 12.065V | 5.032V | 3.336V | 5.026V | 994.186 | | | | 56.29°C | 115.11V |

## Anex

Cooler Master MWE Gold 850 V2 (Fixed)

### 20-80W LOAD TESTS 115V

| Test # | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | PF/AC Volts |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.227A | 0.495A | 0.490A | 0.196A | 19.977 | 65.996% | 1044 | 24.8 | 0.838 |
| | 12.081V | 5.058V | 3.362V | 5.114V | 30.270 | | | | 115.14V |
| 2 | 2.456A | 0.989A | 0.982A | 0.391A | 39.965 | 77.467% | 1044 | 24.8 | 0.927 |
| | 12.079V | 5.057V | 3.361V | 5.108V | 51.590 | | | | 115.14V |
| 3 | 3.688A | 1.483A | 1.473A | 0.588A | 59.998 | 82.595% | 1046 | 24.9 | 0.965 |
| | 12.080V | 5.056V | 3.360V | 5.102V | 72.641 | | | | 115.14V |
| 4 | 4.913A | 1.975A | 1.965A | 0.785A | 79.950 | 84.664% | 1049 | 25.1 | 0.971 |
| | 12.083V | 5.056V | 3.359V | 5.096V | 94.432 | | | | 115.14V |

### RIPPLE MEASUREMENTS 115V

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 10% Load | 10.40mV | 11.60mV | 12.30mV | 9.60mV | Pass |
| 20% Load | 14.70mV | 14.00mV | 15.40mV | 10.50mV | Pass |
| 30% Load | 13.80mV | 16.20mV | 22.90mV | 10.70mV | Pass |
| 40% Load | 15.40mV | 16.50mV | 28.30mV | 11.70mV | Pass |
| 50% Load | 16.60mV | 17.50mV | 22.40mV | 12.60mV | Pass |
| 60% Load | 18.70mV | 20.20mV | 24.10mV | 14.50mV | Pass |
| 70% Load | 21.20mV | 20.50mV | 25.80mV | 15.60mV | Pass |
| 80% Load | 24.00mV | 20.60mV | 31.70mV | 17.00mV | Pass |
| 90% Load | 25.70mV | 22.10mV | 40.60mV | 17.40mV | Pass |
| 100% Load | 37.30mV | 25.40mV | 45.50mV | 18.60mV | Pass |
| 110% Load | 41.30mV | 25.90mV | 48.10mV | 19.40mV | Pass |
| Crossload1 | 16.70mV | 18.60mV | 23.90mV | 12.40mV | Pass |
| Crossload2 | 39.30mV | 20.80mV | 36.60mV | 17.80mV | Pass |

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# 230V







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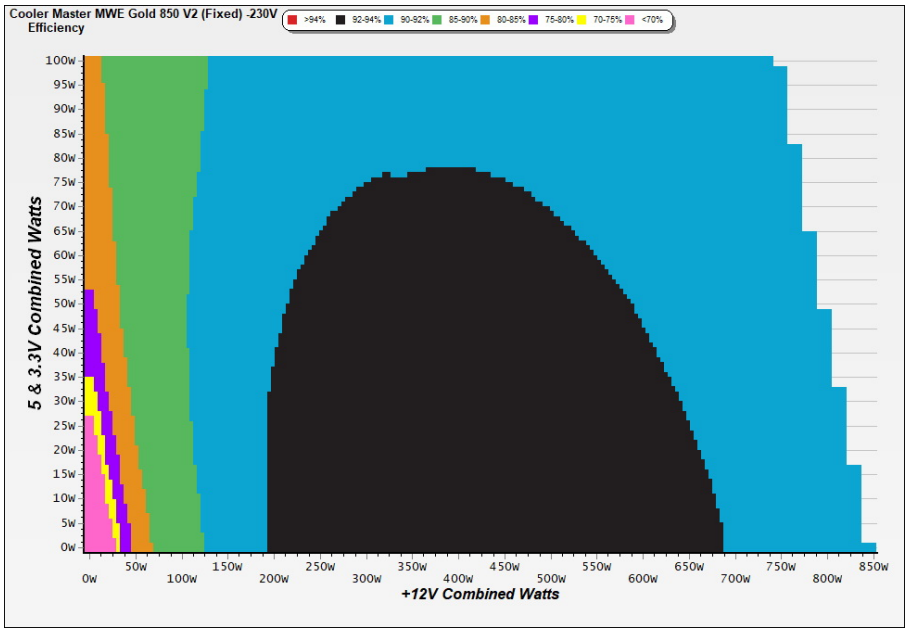
## EFFICIENCY GRAPH 230V

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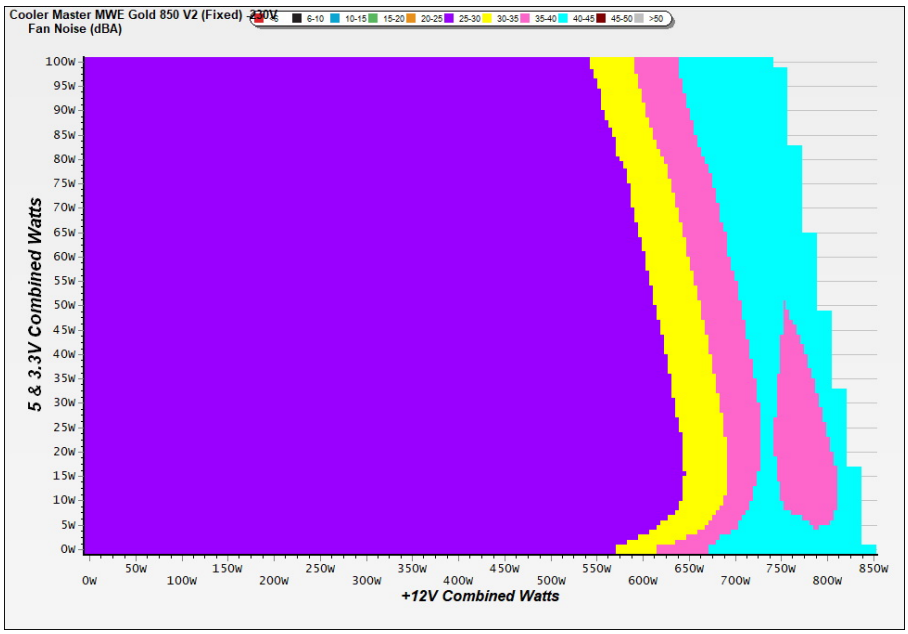
## NOISE GRAPH 230V

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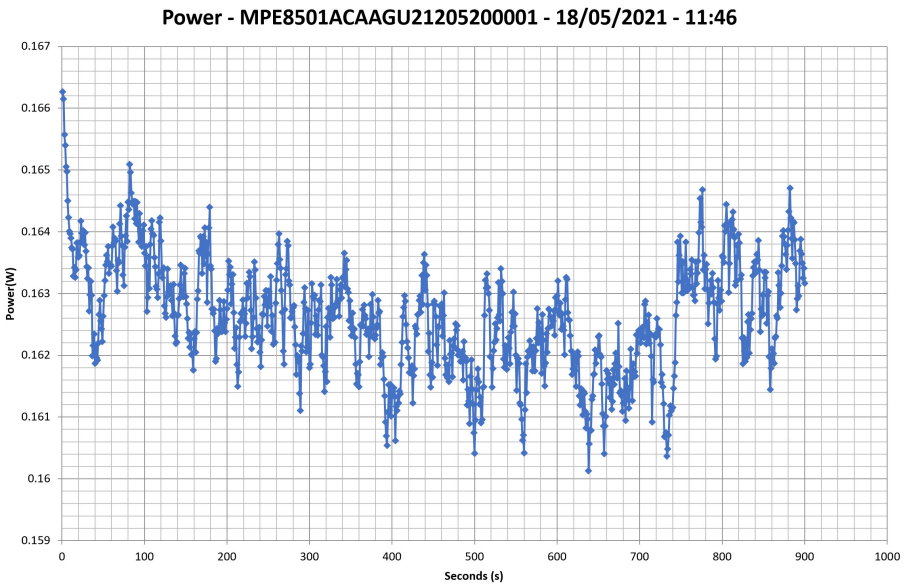
Cooler Master MWE Gold 850 V2 (Fixed)

## VAMPIRE POWER -230V

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## Anex

Cooler Master MWE Gold 850 V2 (Fixed)

### 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.242A | 1.980A | 1.966A | 0.982A | 84.957 | 86.602% | 1051 | 25.4 | 40.06°C | 0.827 |
| | 12.085V | 5.054V | 3.358V | 5.090V | 98.100 | | | | 43.71°C | 230.34V |
| 2 | 11.515A | 2.970A | 2.952A | 1.182A | 170.028 | 90.762% | 1053 | 25.7 | 40.52°C | 0.923 |
| | 12.082V | 5.051V | 3.354V | 5.078V | 187.334 | | | | 44.82°C | 230.35V |
| 3 | 18.128A | 3.467A | 3.446A | 1.382A | 255.023 | 91.993% | 1053 | 25.7 | 41.66°C | 0.953 |
| | 12.079V | 5.048V | 3.352V | 5.067V | 277.220 | | | | 46.81°C | 230.35V |
| 4 | 24.746A | 3.965A | 3.942A | 1.582A | 340.013 | 92.435% | 1054 | 25.7 | 41.71°C | 0.971 |
| | 12.075V | 5.045V | 3.349V | 5.056V | 367.839 | | | | 47.66°C | 230.34V |
| 5 | 31.001A | 4.959A | 4.935A | 1.784A | 424.816 | 92.358% | 1062 | 25.4 | 42.67°C | 0.978 |
| | 12.074V | 5.042V | 3.345V | 5.044V | 459.968 | | | | 49.53°C | 230.34V |
| 6 | 37.232A | 5.955A | 5.927A | 1.987A | 509.333 | 92.072% | 1474 | 35.1 | 42.86°C | 0.984 |
| | 12.074V | 5.039V | 3.342V | 5.032V | 553.188 | | | | 50.50°C | 230.33V |
| 7 | 43.546A | 6.951A | 6.921A | 2.191A | 594.619 | 91.681% | 1981 | 43.7 | 43.19°C | 0.986 |
| | 12.068V | 5.035V | 3.339V | 5.020V | 648.572 | | | | 51.23°C | 230.33V |
| 8 | 49.850A | 7.951A | 7.915A | 2.396A | 679.942 | 91.261% | 1991 | 43.7 | 43.31°C | 0.987 |
| | 12.067V | 5.032V | 3.335V | 5.007V | 745.050 | | | | 52.23°C | 230.33V |
| 9 | 56.557A | 8.449A | 8.399A | 2.400A | 764.833 | 90.843% | 2000 | 43.7 | 44.11°C | 0.988 |
| | 12.065V | 5.029V | 3.332V | 4.999V | 841.928 | | | | 53.85°C | 230.33V |
| 10 | 63.002A | 8.952A | 8.919A | 3.011A | 849.671 | 90.252% | 2009 | 43.8 | 45.67°C | 0.990 |
| | 12.063V | 5.026V | 3.329V | 4.980V | 941.446 | | | | 55.84°C | 230.32V |
| 11 | 70.009A | 8.956A | 8.928A | 3.016A | 934.410 | 89.692% | 2014 | 43.8 | 47.13°C | 0.991 |
| | 12.066V | 5.024V | 3.326V | 4.971V | 1041.804 | | | | 57.88°C | 230.32V |
| CL1 | 0.115A | 11.998A | 11.997A | 0.000A | 102.183 | 84.753% | 1054 | 25.7 | 42.59°C | 0.873 |
| | 12.091V | 5.051V | 3.350V | 5.093V | 120.565 | | | | 49.42°C | 230.33V |
| CL2 | 70.827A | 1.000A | 1.002A | 1.000A | 867.927 | 90.803% | 2010 | 43.8 | 45.99°C | 0.990 |
| | 12.065V | 5.032V | 3.336V | 5.025V | 955.834 | | | | 56.15°C | 230.32V |

## Anex

Cooler Master MWE Gold 850 V2 (Fixed)

### 20-80W LOAD TESTS 230V

| Test # | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | PF/AC Volts |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.228A | 0.494A | 0.491A | 0.196A | 19.984 | 65.969% | 1044 | 24.8 | 0.544 |
| | 12.078V | 5.057V | 3.362V | 5.113V | 30.293 | | | | 230.30V |
| 2 | 2.457A | 0.988A | 0.981A | 0.392A | 39.974 | 78.170% | 1046 | 24.9 | 0.683 |
| | 12.080V | 5.056V | 3.360V | 5.107V | 51.137 | | | | 230.32V |
| 3 | 3.688A | 1.482A | 1.474A | 0.588A | 60.006 | 83.409% | 1049 | 25.1 | 0.770 |
| | 12.083V | 5.056V | 3.359V | 5.101V | 71.942 | | | | 230.33V |
| 4 | 4.912A | 1.977A | 1.966A | 0.785A | 79.956 | 86.190% | 1051 | 25.4 | 0.815 |
| | 12.085V | 5.055V | 3.358V | 5.094V | 92.767 | | | | 230.34V |

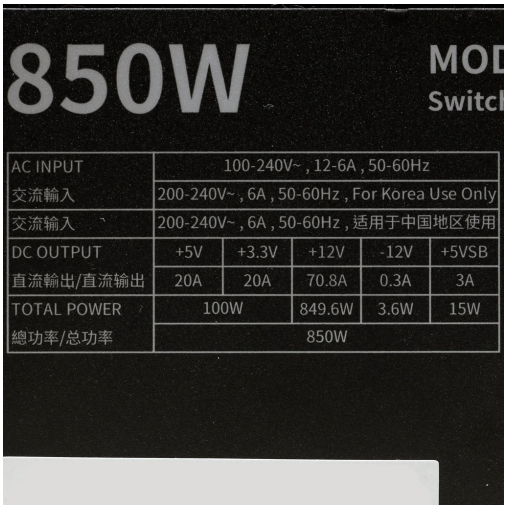
### RIPPLE MEASUREMENTS 230V

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 10% Load | 13.30mV | 11.20mV | 12.90mV | 9.10mV | Pass |
| 20% Load | 17.50mV | 11.10mV | 14.20mV | 9.90mV | Pass |
| 30% Load | 17.00mV | 14.50mV | 23.70mV | 10.40mV | Pass |
| 40% Load | 15.40mV | 15.50mV | 26.20mV | 12.00mV | Pass |
| 50% Load | 17.90mV | 16.70mV | 22.00mV | 13.00mV | Pass |
| 60% Load | 18.90mV | 18.00mV | 24.40mV | 13.80mV | Pass |
| 70% Load | 19.90mV | 18.80mV | 24.70mV | 15.30mV | Pass |
| 80% Load | 22.40mV | 20.90mV | 34.00mV | 15.60mV | Pass |
| 90% Load | 25.50mV | 22.70mV | 39.50mV | 16.50mV | Pass |
| 100% Load | 37.10mV | 23.80mV | 40.10mV | 18.10mV | Pass |
| 110% Load | 41.20mV | 24.80mV | 42.40mV | 19.40mV | Pass |
| Crossload1 | 18.60mV | 18.20mV | 25.10mV | 12.70mV | Pass |
| Crossload2 | 39.00mV | 20.20mV | 35.40mV | 17.40mV | Pass |

## Anex

Cooler Master MWE Gold 850 V2 (Fixed)


*Top side*




*Power specifications label*

## CERTIFICATIONS 115V

CYBENETICS GOLD

CYBENETICS STANDARD+

## CERTIFICATIONS 230V

CYBENETICS GOLD 230v

CYBENETICS STANDARD++ 230v