

Anex

Cooler Master MWE Gold 850W V2

Lab ID#: CM85001769
 Receipt Date: Dec 14, 2020
 Test Date: Dec 17, 2020

Report: 20PS1769A
 Report Date: Dec 22, 2020

| DUT INFORMATION | |
|--------------------|--|
| Brand | Cooler Master |
| Manufacturer (OEM) | Huizhou Xin Hui Yuan Tech (Fusion Power) |
| Series | MWE Gold V2 |
| Model Number | MPE-8501-AFAAG |
| Serial Number | |
| 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 | X |
| Cable Design | Fully Modular |

| 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 | | | | |

| CABLES AND CONNECTORS | | | | |
|---------------------------------------|-------------|-------------------------|----------|---------------------|
| Modular Cables | | | | |
| Description | Cable Count | Connector Count (Total) | Gauge | In Cable Capacitors |
| ATX connector 20+4 pin (610mm) | 1 | 1 | 18-22AWG | No |
| 4+4 pin EPS12V (610mm) | 1 | 1 | 18AWG | No |
| 8 pin EPS12V (650mm) | 1 | 1 | 18AWG | No |
| 6+2 pin PCIe (560mm+125mm) | 2 | 4 | 16-18AWG | No |
| SATA (500mm+125mm+125mm+125mm) | 3 | 12 | 18AWG | No |
| 4-pin Molex (500mm+125mm+125mm+125mm) | 1 | 4 | 18-20AWG | No |
| AC Power Cord (1400mm) - C13 coupler | 1 | 1 | 16AWG | - |

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Cooler Master MWE Gold 850W V2

| | |
|------------------------|--|
| 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 (50hm) & Relay |
| Bridge Rectifier(s) | 2x GBU15J (600V, 15A @ 100°C) |
| APFC MOSFETs | 2x NCE Power NCE65TF130 (650V, 18A @ 100°C, Rds(on): 0.130hm) |
| APFC Boost Diode | 1x GH3D08065I |
| Bulk Cap(s) | 1x Elite (400V, 680uF, 2,000h @ 105°C, PL) |
| Main Switchers | 4x Great Power GPT13N50DG (500V, 13A, Rds(on): 0.490hm) |
| APFC Controller | ON Semiconductor NCP1654 |
| Resonant Controller | Champion CM6901T6X |
| Topology | Primary side: APFC, Full-Bridge & LLC converter 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) PWM Controller(s): ANPEC APW7159C |
| Filtering Capacitors | Electrolytic: 10x Elite (4-10,000h @ 105°C, EY), 7x Lelon (105°C, LZG) Polymer: 6x FPCAP, 4x Elite, 4x no info |
| Supervisor IC | IN1S313I-DAG |
| Fan Model | Hong Hua HA1225H12F-Z (120mm, 12V, 0.58A, Fluid Dynamic Bearing Fan) |
| 5VSB Circuit | - |
| Standby PWM Controller | Excelliance MOS Corp EM8569C |

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Cooler Master MWE Gold 850W V2

RESULTS

| | |
|-----------------------------|-----------------|
| Temperature Range (°C /°F) | 30-32 / 86-89.6 |
| ErP Lot 3/6 Ready | ✓ |
| (EU) No 617/2013 Compliance | ✓ |

115V

| | |
|---|-------------|
| Average Efficiency | 88.571% |
| Efficiency With 10W (≤500W) or 2% (>500W) | 63.292 |
| Average Efficiency 5VSB | 80.659% |
| Standby Power Consumption (W) | 0.0649975 |
| Average PF | 0.989 |
| Avg Noise Output | 35.18 dB(A) |
| Efficiency Rating (ETA) | GOLD |
| Noise Rating (LAMBDA) | S+ |

230V

| | |
|-------------------------------|-------------|
| Average Efficiency | 90.720% |
| Average Efficiency 5VSB | 79.834% |
| Standby Power Consumption (W) | 0.1226860 |
| Average PF | 0.954 |
| Avg Noise Output | 34.18 dB(A) |
| Efficiency Rating (ETA) | GOLD |
| Noise Rating (LAMBDA) | S++ |

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 |

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

| | |
|---------------------------------------|------|
| Hold-Up Time (ms) | 20.6 |
| AC Loss to PWR_OK Hold Up Time (ms) | 16.2 |
| PWR_OK Inactive to DC Loss Delay (ms) | 4.4 |

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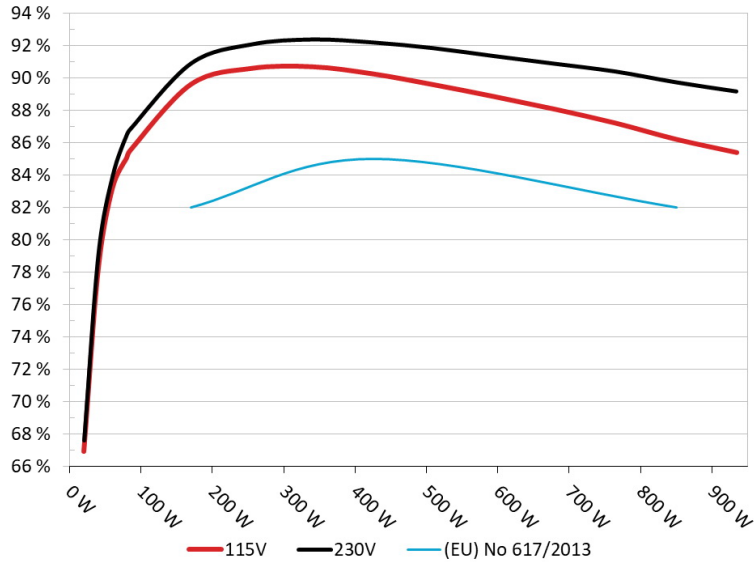
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Cooler Master MWE Gold 850W V2

EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

Efficiency: Cooler Master MWE Gold 850W V2

Ambient: 37°C - 47°C (98.6°F - 116.6°F)



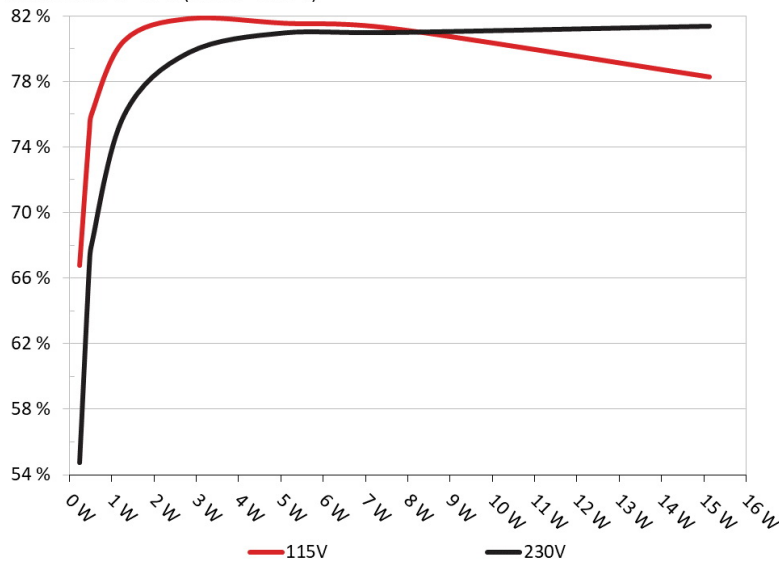
INFO

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 MWE Gold 850W V2

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 MWE Gold 850W V2

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

| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
|--------|--------|---------------|------------|-------------|
| 1 | 0.045A | 0.231 | 66.763% | 0.041 |
| | 5.127V | 0.346 | | 115.12V |
| 2 | 0.090A | 0.461 | 74.959% | 0.072 |
| | 5.126V | 0.615 | | 115.12V |
| 3 | 0.550A | 2.813 | 81.821% | 0.289 |
| | 5.114V | 3.438 | | 115.11V |
| 4 | 1.000A | 5.101 | 81.538% | 0.379 |
| | 5.101V | 6.256 | | 115.11V |
| 5 | 1.500A | 7.631 | 81.224% | 0.427 |
| | 5.087V | 9.395 | | 115.12V |
| 6 | 3.000A | 15.136 | 78.267% | 0.490 |
| | 5.045V | 19.339 | | 115.12V |

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

| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
|--------|--------|---------------|------------|-------------|
| 1 | 0.045A | 0.231 | 54.739% | 0.015 |
| | 5.127V | 0.422 | | 230.25V |
| 2 | 0.090A | 0.461 | 66.812% | 0.025 |
| | 5.126V | 0.690 | | 230.25V |
| 3 | 0.550A | 2.813 | 79.756% | 0.118 |
| | 5.113V | 3.527 | | 230.26V |
| 4 | 1.000A | 5.101 | 80.968% | 0.190 |
| | 5.101V | 6.300 | | 230.26V |
| 5 | 1.500A | 7.631 | 80.983% | 0.251 |
| | 5.087V | 9.423 | | 230.26V |
| 6 | 3.000A | 15.136 | 81.368% | 0.349 |
| | 5.045V | 18.602 | | 230.26V |

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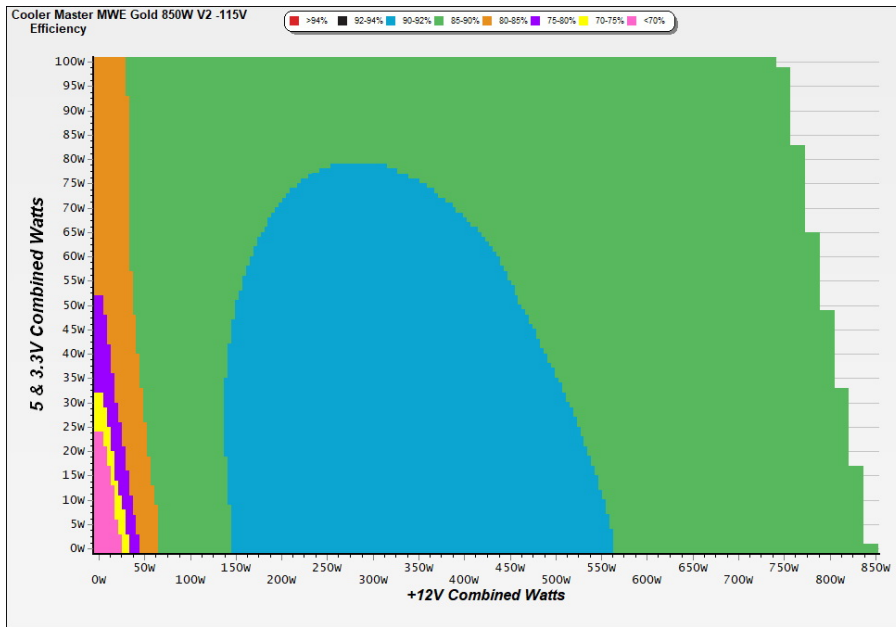
115V

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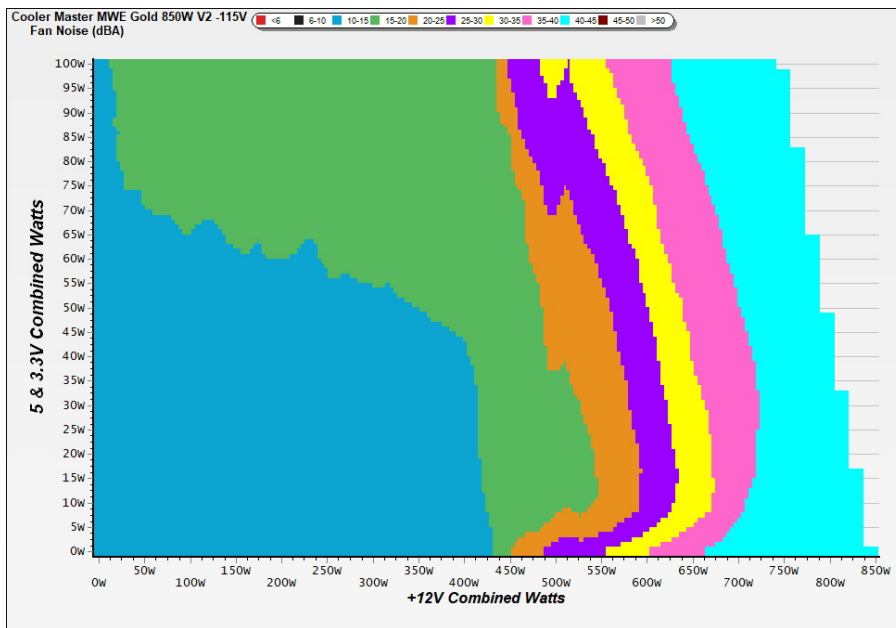
EFFICIENCY GRAPH 115V



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

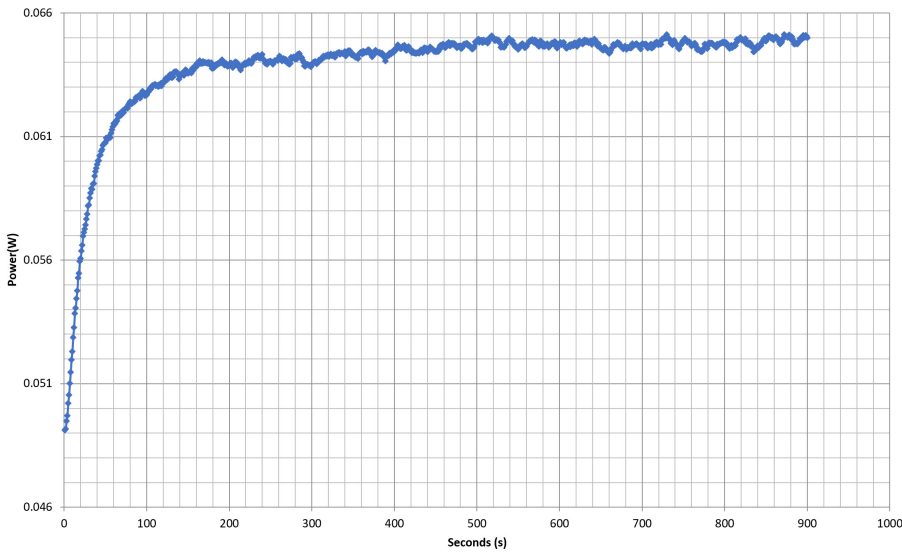
The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

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VAMPIRE POWER -115V

Power - 15/12/2020 - 09:57



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 |
|--------|---------|---------|---------|--------|------------------|------------|--------------------|----------------------|-------------------|----------------|
| 1 | 5.273A | 1.977A | 1.965A | 0.983A | 84.963 | 85.519% | 788 | 15.9 | 40.13°C | 0.972 |
| | 12.017V | 5.058V | 3.359V | 5.085V | 99.350 | | | | 43.35°C | 115.10V |
| 2 | 11.582A | 2.968A | 2.950A | 1.184A | 170.033 | 89.600% | 788 | 15.9 | 40.51°C | 0.980 |
| | 12.013V | 5.054V | 3.355V | 5.068V | 189.769 | | | | 44.36°C | 115.10V |
| 3 | 18.234A | 3.464A | 3.445A | 1.386A | 255.042 | 90.584% | 793 | 16.1 | 41.04°C | 0.987 |
| | 12.010V | 5.052V | 3.353V | 5.051V | 281.553 | | | | 45.46°C | 115.10V |
| 4 | 24.890A | 3.962A | 3.941A | 1.589A | 340.059 | 90.685% | 800 | 16.5 | 41.83°C | 0.992 |
| | 12.007V | 5.049V | 3.350V | 5.034V | 374.991 | | | | 47.41°C | 115.09V |
| 5 | 31.196A | 4.955A | 4.930A | 1.795A | 424.948 | 90.243% | 1065 | 24.6 | 42.04°C | 0.994 |
| | 12.003V | 5.046V | 3.346V | 5.016V | 470.893 | | | | 48.32°C | 115.09V |
| 6 | 37.475A | 5.951A | 5.923A | 2.000A | 509.463 | 89.578% | 1694 | 38.1 | 42.97°C | 0.996 |
| | 11.999V | 5.042V | 3.343V | 4.997V | 568.739 | | | | 50.27°C | 115.08V |
| 7 | 43.824A | 6.947A | 6.917A | 2.210A | 594.781 | 88.843% | 2032 | 43.0 | 43.28°C | 0.996 |
| | 11.995V | 5.039V | 3.340V | 4.979V | 669.478 | | | | 51.37°C | 115.08V |
| 8 | 50.179A | 7.946A | 7.912A | 2.420A | 680.105 | 88.057% | 2044 | 43.1 | 43.80°C | 0.997 |
| | 11.991V | 5.035V | 3.336V | 4.961V | 772.347 | | | | 52.27°C | 115.07V |
| 9 | 56.938A | 8.447A | 8.398A | 2.426A | 765.015 | 87.203% | 2051 | 43.2 | 44.72°C | 0.997 |
| | 11.987V | 5.032V | 3.333V | 4.948V | 877.277 | | | | 53.85°C | 115.07V |
| 10 | 63.429A | 8.946A | 8.916A | 3.051A | 849.836 | 86.201% | 2056 | 43.3 | 45.83°C | 0.997 |
| | 11.984V | 5.030V | 3.331V | 4.918V | 985.874 | | | | 55.66°C | 115.06V |
| 11 | 70.513A | 8.952A | 8.924A | 3.058A | 934.592 | 85.387% | 2064 | 43.4 | 46.77°C | 0.998 |
| | 11.982V | 5.027V | 3.328V | 4.907V | 1094.535 | | | | 57.48°C | 115.05V |
| CL1 | 0.117A | 12.001A | 11.998A | 0.000A | 102.085 | 82.586% | 827 | 17.2 | 42.27°C | 0.986 |
| | 12.018V | 5.042V | 3.348V | 5.090V | 123.610 | | | | 48.47°C | 115.10V |
| CL2 | 70.834A | 1.001A | 1.001A | 1.000A | 862.325 | 86.898% | 2057 | 43.3 | 45.34°C | 0.997 |
| | 11.985V | 5.042V | 3.339V | 4.991V | 992.347 | | | | 55.25°C | 115.06V |

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Cooler Master MWE Gold 850W V2

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 | 1.235A | 0.494A | 0.490A | 0.195A | 19.990 | 66.921% | 780 | 15.3 | 0.834 |
| | 12.019V | 5.062V | 3.362V | 5.118V | 29.871 | | | | 115.11V |
| 2 | 2.470A | 0.987A | 0.981A | 0.392A | 39.979 | 78.127% | 783 | 15.6 | 0.923 |
| | 12.018V | 5.060V | 3.361V | 5.109V | 51.172 | | | | 115.11V |
| 3 | 3.708A | 1.483A | 1.473A | 0.588A | 60.010 | 83.182% | 785 | 15.7 | 0.962 |
| | 12.017V | 5.059V | 3.360V | 5.101V | 72.143 | | | | 115.11V |
| 4 | 4.940A | 1.976A | 1.964A | 0.786A | 79.962 | 85.063% | 787 | 15.9 | 0.968 |
| | 12.018V | 5.058V | 3.359V | 5.092V | 94.003 | | | | 115.10V |

RIPPLE MEASUREMENTS 115V

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|------------|---------|---------|---------|---------|-----------|
| 10% Load | 11.60mV | 7.60mV | 13.70mV | 8.40mV | Pass |
| 20% Load | 15.20mV | 7.60mV | 13.50mV | 8.80mV | Pass |
| 30% Load | 14.50mV | 8.30mV | 14.00mV | 8.60mV | Pass |
| 40% Load | 13.10mV | 11.50mV | 15.40mV | 9.20mV | Pass |
| 50% Load | 13.00mV | 12.50mV | 16.00mV | 9.90mV | Pass |
| 60% Load | 12.30mV | 10.70mV | 15.00mV | 10.60mV | Pass |
| 70% Load | 12.80mV | 10.40mV | 14.80mV | 12.20mV | Pass |
| 80% Load | 14.00mV | 11.50mV | 15.70mV | 13.00mV | Pass |
| 90% Load | 14.40mV | 12.60mV | 16.50mV | 13.50mV | Pass |
| 100% Load | 28.30mV | 16.90mV | 34.70mV | 16.30mV | Pass |
| 110% Load | 30.20mV | 18.30mV | 35.80mV | 17.00mV | Pass |
| Crossload1 | 16.60mV | 10.60mV | 20.30mV | 8.10mV | Pass |
| Crossload2 | 24.20mV | 14.20mV | 19.80mV | 15.10mV | Pass |

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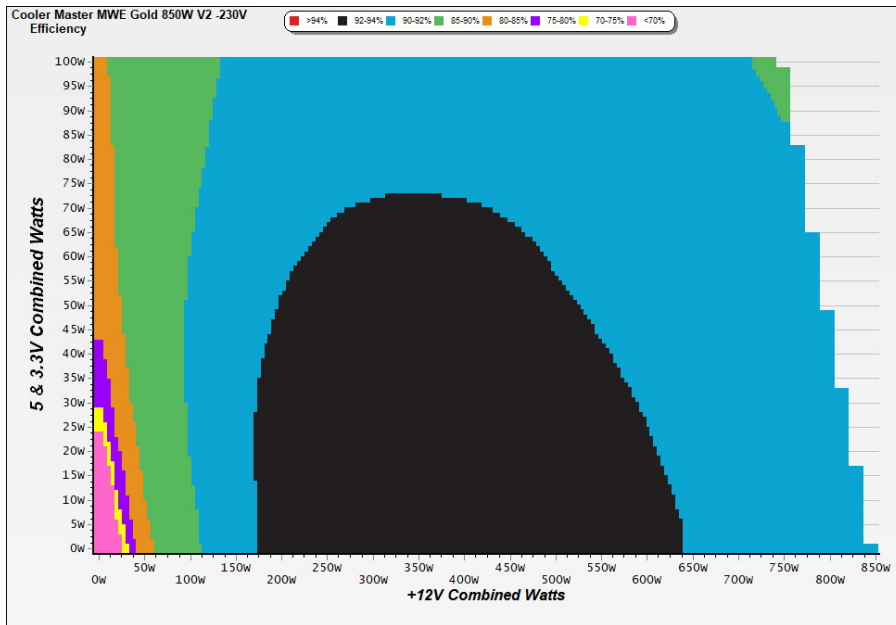
230V

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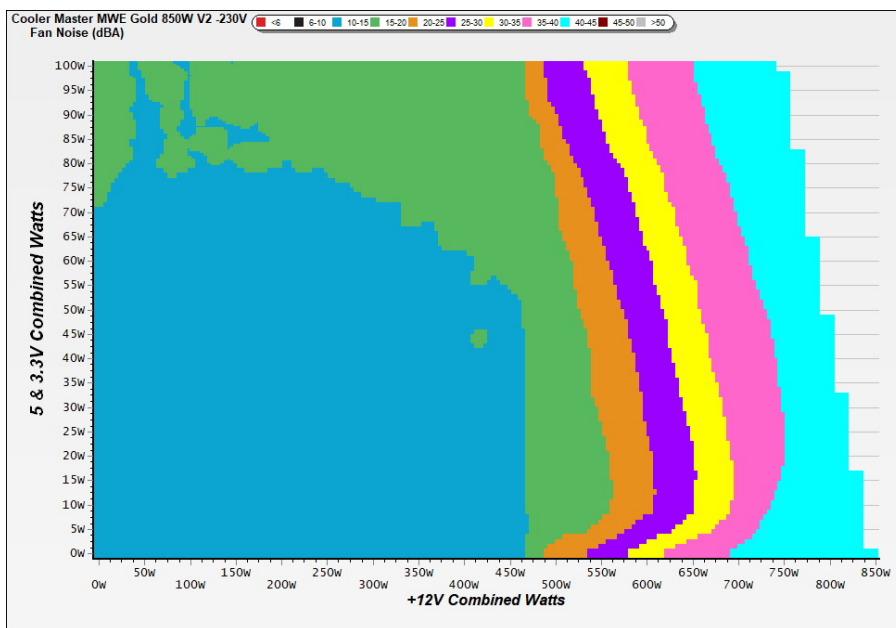
EFFICIENCY GRAPH 230V



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NOISE GRAPH 230V



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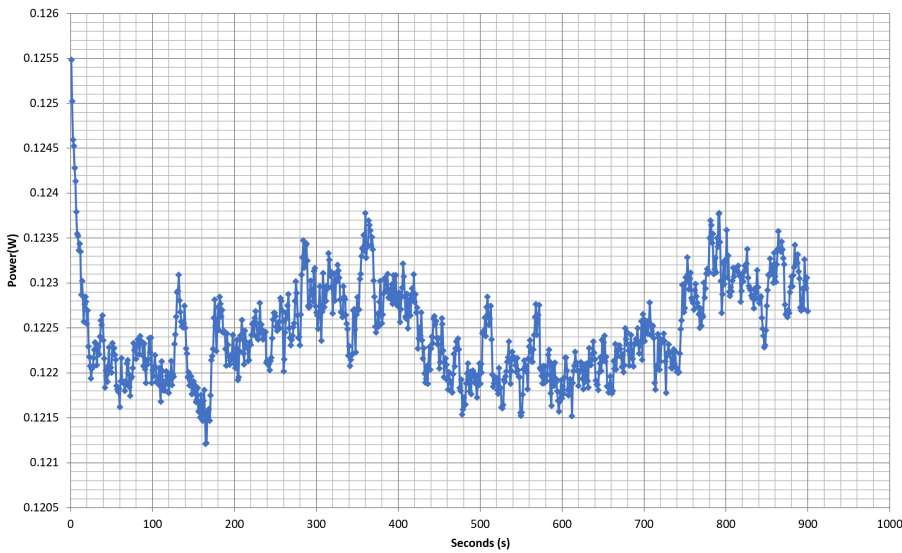
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|--------|---------|---------|---------|--------|------------------|------------|--------------------|----------------------|-------------------|----------------|
| 1 | 5.272A | 1.976A | 1.966A | 0.983A | 84.956 | 86.863% | 789 | 15.9 | 40.03°C | 0.825 |
| | 12.018V | 5.058V | 3.358V | 5.087V | 97.805 | | | | 43.99°C | 230.23V |
| 2 | 11.580A | 2.968A | 2.951A | 1.184A | 170.014 | 90.912% | 790 | 16.0 | 40.44°C | 0.925 |
| | 12.013V | 5.054V | 3.355V | 5.069V | 187.010 | | | | 45.05°C | 230.23V |
| 3 | 18.232A | 3.465A | 3.446A | 1.386A | 255.021 | 92.085% | 793 | 16.1 | 41.23°C | 0.954 |
| | 12.010V | 5.051V | 3.352V | 5.052V | 276.942 | | | | 46.49°C | 230.23V |
| 4 | 24.888A | 3.962A | 3.941A | 1.589A | 340.038 | 92.388% | 802 | 16.5 | 41.69°C | 0.971 |
| | 12.007V | 5.049V | 3.350V | 5.035V | 368.053 | | | | 47.85°C | 230.22V |
| 5 | 31.195A | 4.956A | 4.931A | 1.794A | 424.905 | 92.202% | 1140 | 27.6 | 42.15°C | 0.978 |
| | 12.002V | 5.045V | 3.346V | 5.017V | 460.842 | | | | 49.13°C | 230.23V |
| 6 | 37.480A | 5.951A | 5.924A | 2.000A | 509.454 | 91.852% | 1609 | 37.0 | 42.32°C | 0.984 |
| | 11.997V | 5.042V | 3.343V | 4.999V | 554.648 | | | | 50.21°C | 230.23V |
| 7 | 43.828A | 6.948A | 6.918A | 2.209A | 594.784 | 91.362% | 2029 | 42.9 | 43.16°C | 0.985 |
| | 11.994V | 5.038V | 3.340V | 4.980V | 651.019 | | | | 51.70°C | 230.23V |
| 8 | 50.180A | 7.948A | 7.910A | 2.419A | 680.118 | 90.888% | 2042 | 43.1 | 43.77°C | 0.987 |
| | 11.991V | 5.035V | 3.336V | 4.962V | 748.305 | | | | 52.76°C | 230.23V |
| 9 | 56.940A | 8.446A | 8.400A | 2.425A | 765.039 | 90.409% | 2048 | 43.2 | 44.52°C | 0.988 |
| | 11.987V | 5.032V | 3.333V | 4.949V | 846.195 | | | | 53.98°C | 230.24V |
| 10 | 63.436A | 8.950A | 8.920A | 3.051A | 849.871 | 89.742% | 2056 | 43.3 | 45.86°C | 0.989 |
| | 11.983V | 5.029V | 3.330V | 4.918V | 947.015 | | | | 56.04°C | 230.24V |
| 11 | 70.520A | 8.954A | 8.926A | 3.058A | 934.624 | 89.177% | 2062 | 43.4 | 46.70°C | 0.990 |
| | 11.981V | 5.027V | 3.328V | 4.907V | 1048.057 | | | | 57.46°C | 230.24V |
| CL1 | 0.117A | 12.002A | 11.998A | 0.000A | 102.089 | 83.922% | 822 | 17.0 | 42.40°C | 0.877 |
| | 12.018V | 5.042V | 3.348V | 5.090V | 121.648 | | | | 49.60°C | 230.25V |
| CL2 | 70.846A | 1.000A | 0.998A | 1.000A | 862.314 | 90.338% | 2057 | 43.3 | 45.78°C | 0.989 |
| | 11.983V | 5.041V | 3.339V | 4.992V | 954.542 | | | | 55.86°C | 230.25V |

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Anex

Cooler Master MWE Gold 850W V2

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 | 1.235A | 0.492A | 0.491A | 0.195A | 19.984 | 67.607% | 784 | 15.6 | 0.539 |
| | 12.020V | 5.062V | 3.362V | 5.119V | 29.559 | | | | 230.22V |
| 2 | 2.469A | 0.988A | 0.982A | 0.391A | 39.972 | 79.124% | 785 | 15.7 | 0.678 |
| | 12.019V | 5.060V | 3.361V | 5.110V | 50.518 | | | | 230.22V |
| 3 | 3.708A | 1.482A | 1.471A | 0.588A | 60.003 | 83.970% | 785 | 15.7 | 0.761 |
| | 12.018V | 5.059V | 3.360V | 5.102V | 71.458 | | | | 230.22V |
| 4 | 4.939A | 1.977A | 1.965A | 0.785A | 79.954 | 86.526% | 789 | 15.9 | 0.812 |
| | 12.018V | 5.058V | 3.359V | 5.093V | 92.405 | | | | 230.23V |

RIPPLE MEASUREMENTS 230V

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|------------|---------|---------|---------|---------|-----------|
| 10% Load | 13.30mV | 7.80mV | 13.30mV | 8.70mV | Pass |
| 20% Load | 17.50mV | 8.10mV | 13.60mV | 8.70mV | Pass |
| 30% Load | 16.60mV | 9.00mV | 12.90mV | 8.70mV | Pass |
| 40% Load | 14.80mV | 11.70mV | 15.30mV | 9.00mV | Pass |
| 50% Load | 12.40mV | 12.70mV | 17.40mV | 9.50mV | Pass |
| 60% Load | 12.70mV | 10.80mV | 16.30mV | 10.10mV | Pass |
| 70% Load | 13.20mV | 10.90mV | 15.90mV | 10.40mV | Pass |
| 80% Load | 14.20mV | 11.80mV | 16.80mV | 10.70mV | Pass |
| 90% Load | 14.70mV | 12.90mV | 16.90mV | 10.90mV | Pass |
| 100% Load | 23.40mV | 14.30mV | 18.70mV | 12.30mV | Pass |
| 110% Load | 26.80mV | 15.00mV | 19.60mV | 13.10mV | Pass |
| Crossload1 | 17.00mV | 10.50mV | 18.80mV | 7.80mV | Pass |
| Crossload2 | 24.00mV | 13.10mV | 19.00mV | 11.90mV | Pass |

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Anex

Cooler Master MWE Gold 850W V2



Top side

| | | | | | |
|-------------|--|--------|-------|------|-------|
| 850W | | | | | |
| AC INPUT | 100-240V~, 12-6A, 50-60Hz | | | | |
| 交流輸入 | 200-240V~, 6A, 50-60Hz, For Korea Use Only | | | | |
| 交流輸入 | 200-240V~, 6A, 50-60Hz, 适用于中国地区使用 | | | | |
| DC OUTPUT | +5V | +3.3V | +12V | -12V | +5VSB |
| 直流輸出/直流輸出 | 20A | 20A | 70.8A | 0.3A | 3A |
| TOTAL POWER | 100W | 849.6W | 3.6W | 15W | |
| 總功率/总功率 | 850W | | | | |

Power specifications label

CERTIFICATIONS 115V



CERTIFICATIONS 230V



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