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# Cooler Master V850 SFX Gold (2021)

Serial Number MPY8501SFHAGVEU1211500121

Lab ID CM85001903

Certification ID 251903

Test Result Report ID: 21PS1903A

Certificate Issue Date: Sep 14, 2021

Scheme: ETA-EMI PSU

115V




230V




Scheme: LAMBDA PSU

115V




230V






Aristeidis Bitziopoulos, Certification Body General Manager

# General Information

## Test Equipment

| | |
|---|---|
| Electronic Loads | Chroma 63601-5 x2<br>Chroma 63600-2<br>Chroma 63640-80-80 x10<br>Chroma 63610-80-20 |
| AC Sources | Chroma 6530, APM SP300VAC4000W-P, GW Instek ASR-3500 |
| Power Analyzers | Rohde & Schwarz HMC8015 & NPA701 |
| Oscilloscopes | Picoscope 4444, 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 |
| EMI Analyzer | TekBox TBMR-110M-EU |
| Isolation Transformer | 4kVA |
| UPS | FSP Champ Tower 3kVA, CyberPower OLS3000E 3kVA |
| Testing Methodology | Cybenetics PSU Test Protocol |

## DUT Information(Non-accredited measurements)

| | |
|---|---|
| Product Identification Details | |
| Brand | Cooler Master |
| Model | V850 SFX Gold (2021) |
| OEM/ODM | Gospower |
| Serial Number | MPY8501SFHAGVEU1211500121 |
| Product Specifications | |
| Manufacturer-Provided Information | |
| Rated Voltage (Vrms) | 100-240 |
| Rated Current (Arms) | 6 |
| Rated Frequency (Hz) | 50-60 |

| | |
|---|---|
| Rated Power (W) | 850 |
| Operating Temperature (Continuous Full Load) (°C) | |
| Type | SFX |
| Cable Design | Fully Modular |
| Warranty | - |
| Cybenetics Measurements | |
| Dimensions (W x H x D) | |
| Weight | |
| Cooling | 92mm Fluid Dynamic Bearing Fan<br>(HA9215VH12FD-F00) |
| Semi-Passive Operation | ✓ |
| Cybenetics Testing Information | |
| Lab ID | CM85001903 |
| Date of receipt | Sep 6, 2021 |
| Testing Date | Sep 10, 2021 |
| Report Issued Date | Sep 14, 2021 |
| Engineer Name | - |
| Authorized By the Laboratory Technical Manager | Aristeidis Bitziopoulos |
| Signature |  |

## Cables and Connectors(Non-accredited measurements)

| Modular Cables | | | | |
|---|---|---|---|---|
| Description | Cable Count | Connector Count (Total) | Gauge | In Cable Capacitors |
| ATX connector 20+4 pin (300mm) | 1 | 1 | 18-22AWG | No |
| 4+4 pin EPS12V (460mm) | 1 | 1 | 18AWG | No |
| 8 pin EPS12V (460mm) | 1 | 1 | 18AWG | No |
| 6+2 pin PCIe (400mm+120mm) | 2 | 4 | 16-18AWG | No |
| SATA (100mm+110mm+110mm+110mm) | 2 | 8 | 18AWG | No |
| 4 pin Molex (100mm+110mm+110mm+110mm) | 1 | 4 | 18AWG | No |
| AC Power Cord (1380mm) - C13 coupler | 1 | 1 | 18AWG | - |

## Power Specifications

| Rail | | 3.3V | 5V | 12V | 5VSB | -12V |
|---|---|---|---|---|---|---|
| Max. Power | Amps | 20 | 20 | 70.8 | 3 | 0.3 |
| | Watts | 120 | | 849.6 | 15 | 3.6 |
| Total Max. Power (W) | | 850 | | | | |

## Parts Description

| | |
|---|---|
| General Data | - |
| Manufacturer (OEM) | Gospower |
| PCB Type | Double Sided |
| Primary Side | - |
| Transient Filter | 4x Y caps, 2x X caps, 2x CM chokes, 1x MOV, 1x MPS HF81 (Discharge IC) |
| Inrush Protection | NTC Thermistor & Relay |
| Bridge Rectifier(s) | 1x |
| APFC MOSFETs | 2x STMicroelectronics STF33N60DM2 (600V, 15.5A @ 100°C, Rds(on): 0.13Ohm) |
| APFC Boost Diode | 1x |
| Bulk Cap(s) | 1x Nichicon (450V, 560uF, 2,000h @ 105°C, LGM) |
| Main Switchers | 2x Sanrise Tech SRC60R140BTFE (600V, 11.2A @ 125°C, Rds(on): 0.14Ohm) |
| APFC Controller | Champion CM6500UNX & CM03AX |
| Resonant Controller | Champion CU6901VAC |
| Topology | Primary side: APFC, Half-Bridge & LLC converter<br>Secondary side: Synchronous Rectification & DC-DC converters |
| Secondary Side | - |
| +12V MOSFETs | 6x On Semiconductor NTMFS5C410NL (40V, 230A @ 100°C, Rds(on): 0.82mOhm) |
| 5V & 3.3V | DC-DC Converters: 6x On Semiconductor NTMFS4C022N (30V, 136A, Rds(on): 1.7mOhm)<br>PWM Controller(s): ANPEC APW7159C |
| Filtering Capacitors | Electrolytic: 4x Rubycon (4-10,000h @ 105°C, YXF)<br>Polymer: 28x FPCAP, 1x Nippon Chemi-Con |
| Supervisor IC | IN1S313I-SAG |
| Fan Model | Hong Hua HA9215VH12FD-F00 (92mm, 12V, 0.36A, Fluid Dynamic Bearing Fan) |
| 5VSB Circuit | - |

| | |
|---|---|
| Standby PWM Controller | On-Bright OB2365SP |

# Test Results

## Temperature & Compliance Info

| | |
|---|---|
| Temperature Range (°C /°F) | 28-32 / 82.4-89.6 |
| ErP Lot 3/6 Ready | ✓ |
| (EU) No 617/2013 Compliance | ✓ |
| ALPM (Alternative Low Power Mode) compatible | ✓ |

## Performance Summary

### 115V

| | |
|---|---|
| Accredited | |
| Average Efficiency (>1450 load combinations) | 88.519% |
| Average Noise Output (>1450 Load Combinations) | 37.32dBA |
| Average PF (>1450 Load Combinations) | 0.985 |
| Efficiency With 10W (≤500W) or 2% (>500W) Load | 51.215% |
| Standby Power Consumption | 0.0447W |
| Non-Accredited | |
| 12V Ripple (Full Load) | 63.21mV |
| 5V Ripple (Full Load) | 35.79mV |
| 3.3V Ripple (Full Load) | 86.38mV |
| 5VSB Ripple (Full Load) | 24.61mV |
| 12V Load Regulation | 1.75% |
| 5V Load Regulation | 1.73% |
| 3.3V Load Regulation | 2.61% |
| 5VSB Load Regulation | 3.60% |
| Inrush Current | 62.990A |

| 230V | | |
|---|---|---|
| Accredited | | |
| Average Efficiency (>1450 load combinations) | | 91.022% |
| Average Noise Output (>1450 Load Combinations) | | 37.09dBA |
| Average PF (>1450 Load Combinations) | | 0.955 |
| Efficiency With 10W (≤500W) or 2% (>500W) Load | | - |
| Standby Power Consumption | | 0.0824W |
| Non-Accredited | | |
| 12V Ripple (Full Load) | | 23.08mV |
| 5V Ripple (Full Load) | | 15.37mV |
| 3.3V Ripple (Full Load) | | 15.58mV |
| 5VSB Ripple (Full Load) | | 19.03mV |
| 12V Load Regulation | | 1.80% |
| 5V Load Regulation | | 1.75% |
| 3.3V Load Regulation | | 2.61% |
| 5VSB Load Regulation | | 3.62% |
| Inrush Current | | 84.830A |
| Hold-Up Time & PWR_OK Signal | | 17.20ms |
| AC Loss to PWR_OK Hold Up Time | | 16.10ms |
| PWR_OK Inactive to DC Loss Delay | | 1.10ms |
| PSU Timings: T1 (20% / 100%) | 48.0ms | 48.0ms |
| PSU Timings: T3 (20% / 100%) | 136.0ms | 136.0ms |
| OPP (28.40°C / 42.42°C) | 116.80% | 114.44% |

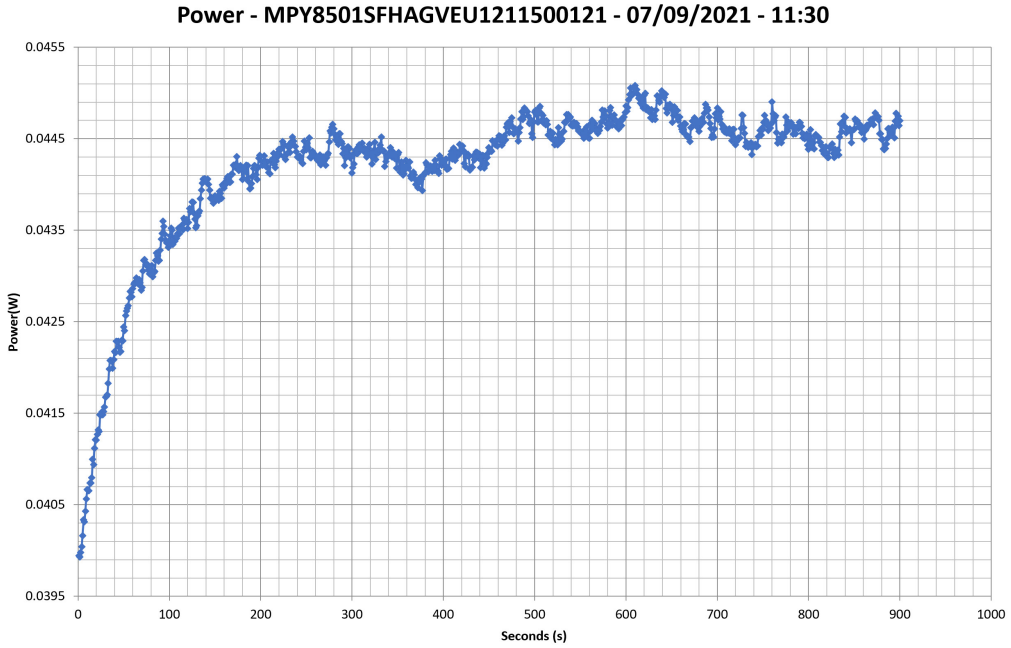
## Hold-Up Time & PWR_OK Signal

| | |
|---|---|
| Hold-Up Time (ms) | 17.2 |
| AC Loss to PWR_OK Hold Up Time (ms) | 16.1 |
| PWR_OK Inactive to DC Loss Delay (ms) | 1.1 |

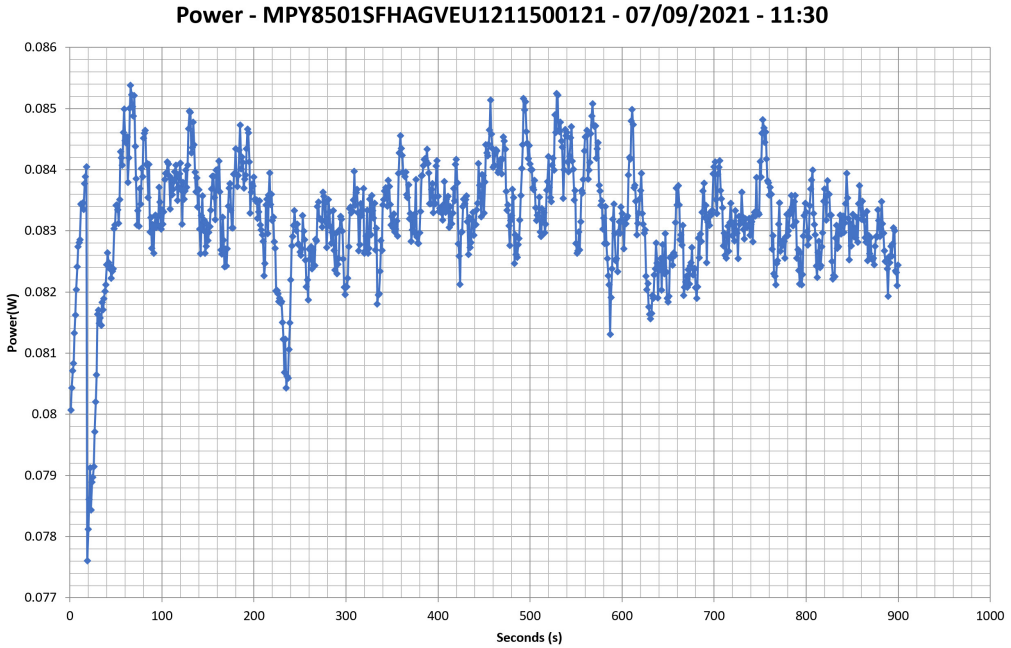
## Stromverbrauch im Ruhezustand

### Graphs

**115V**

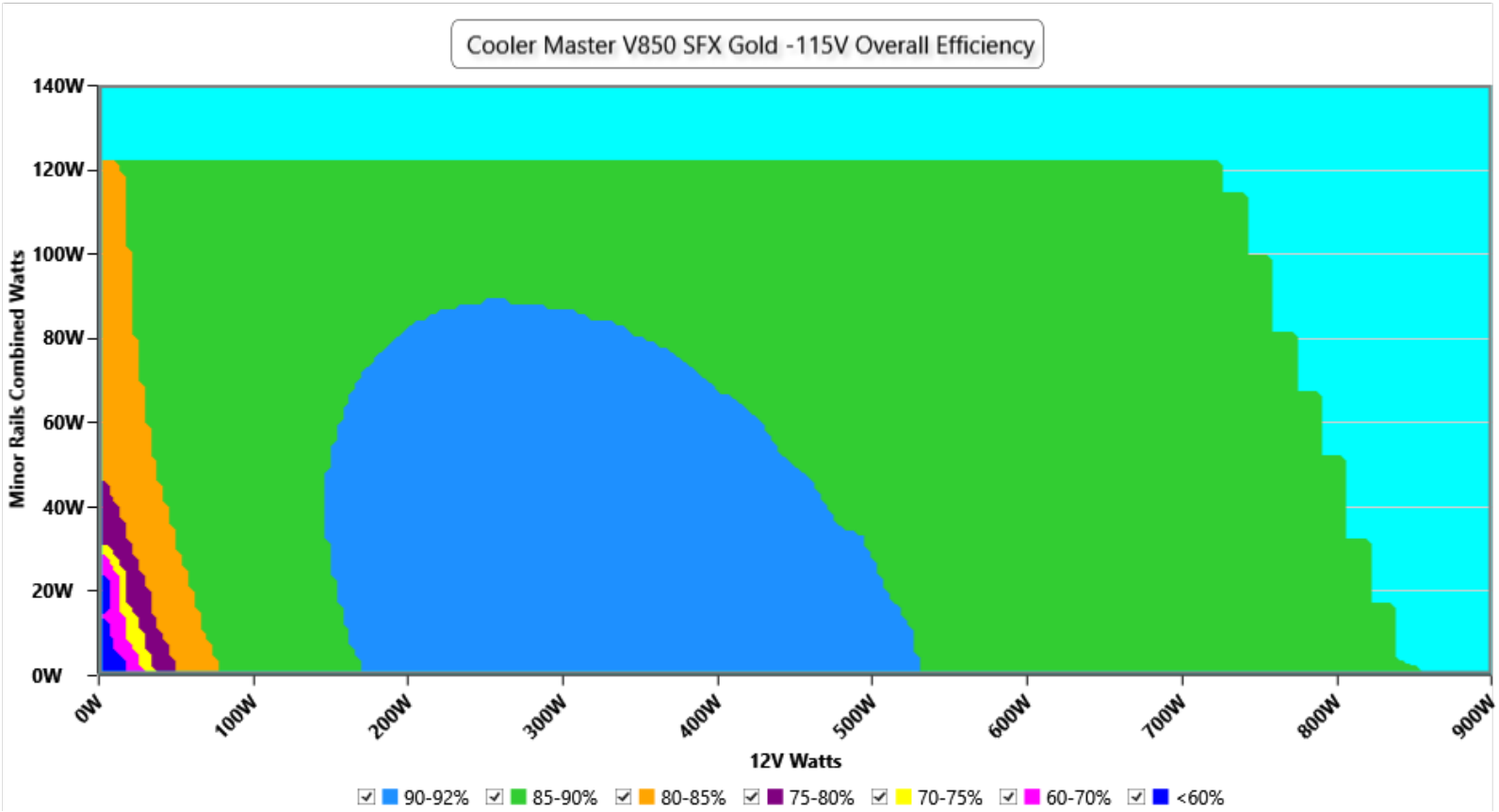



**230V**



## Efficiency Graph

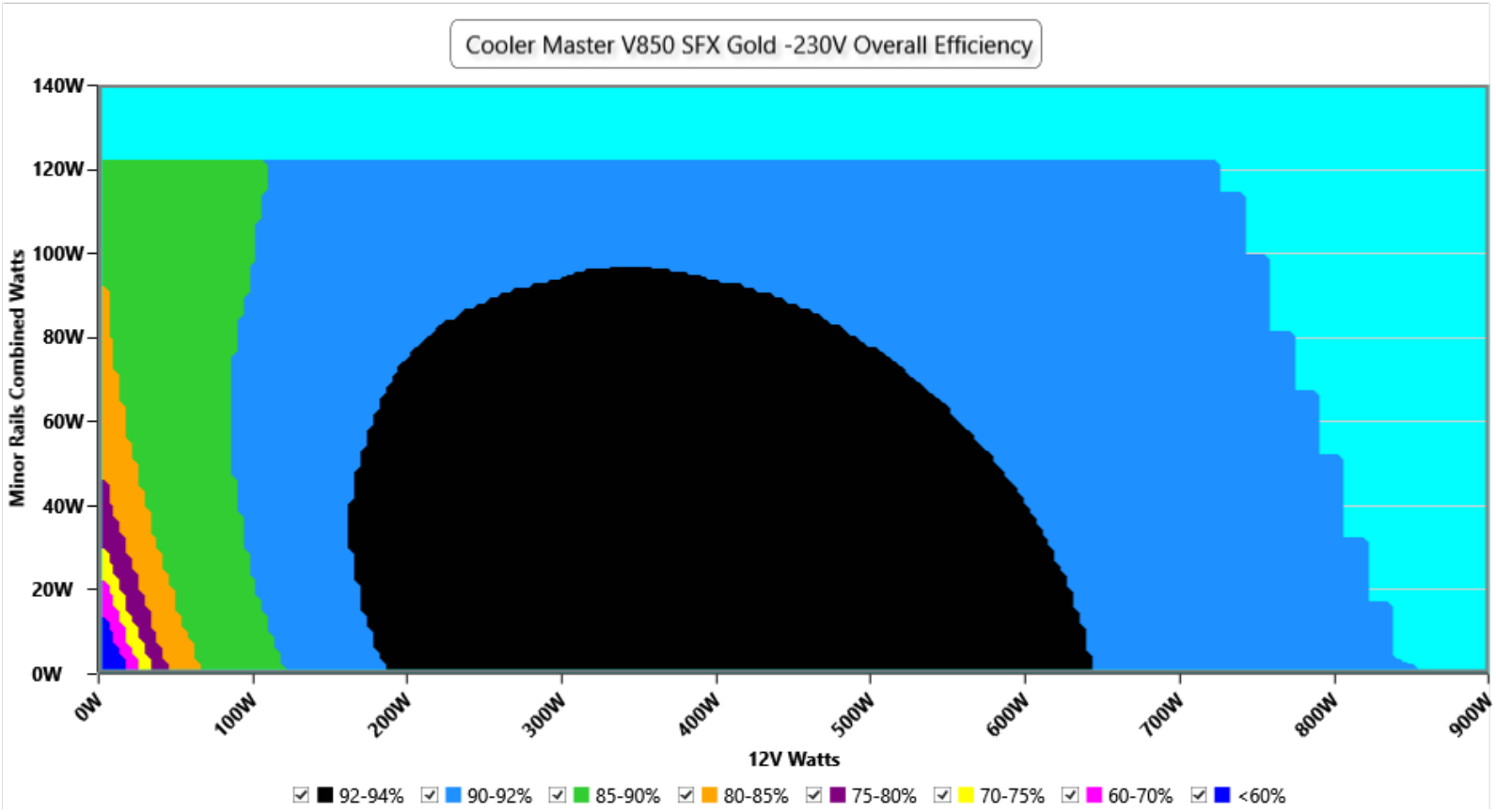
**115V**




**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

## 230V

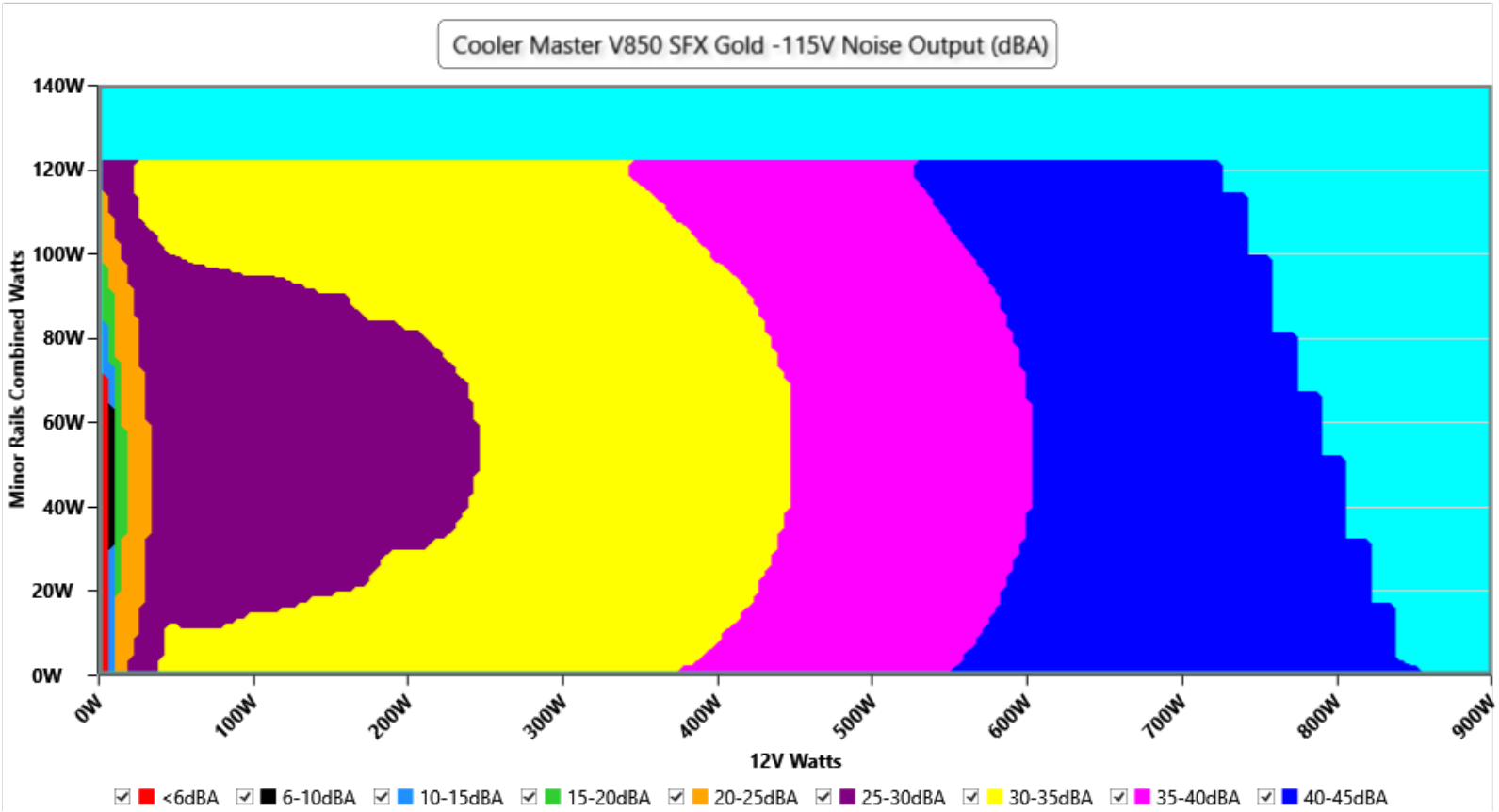



### INFO

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

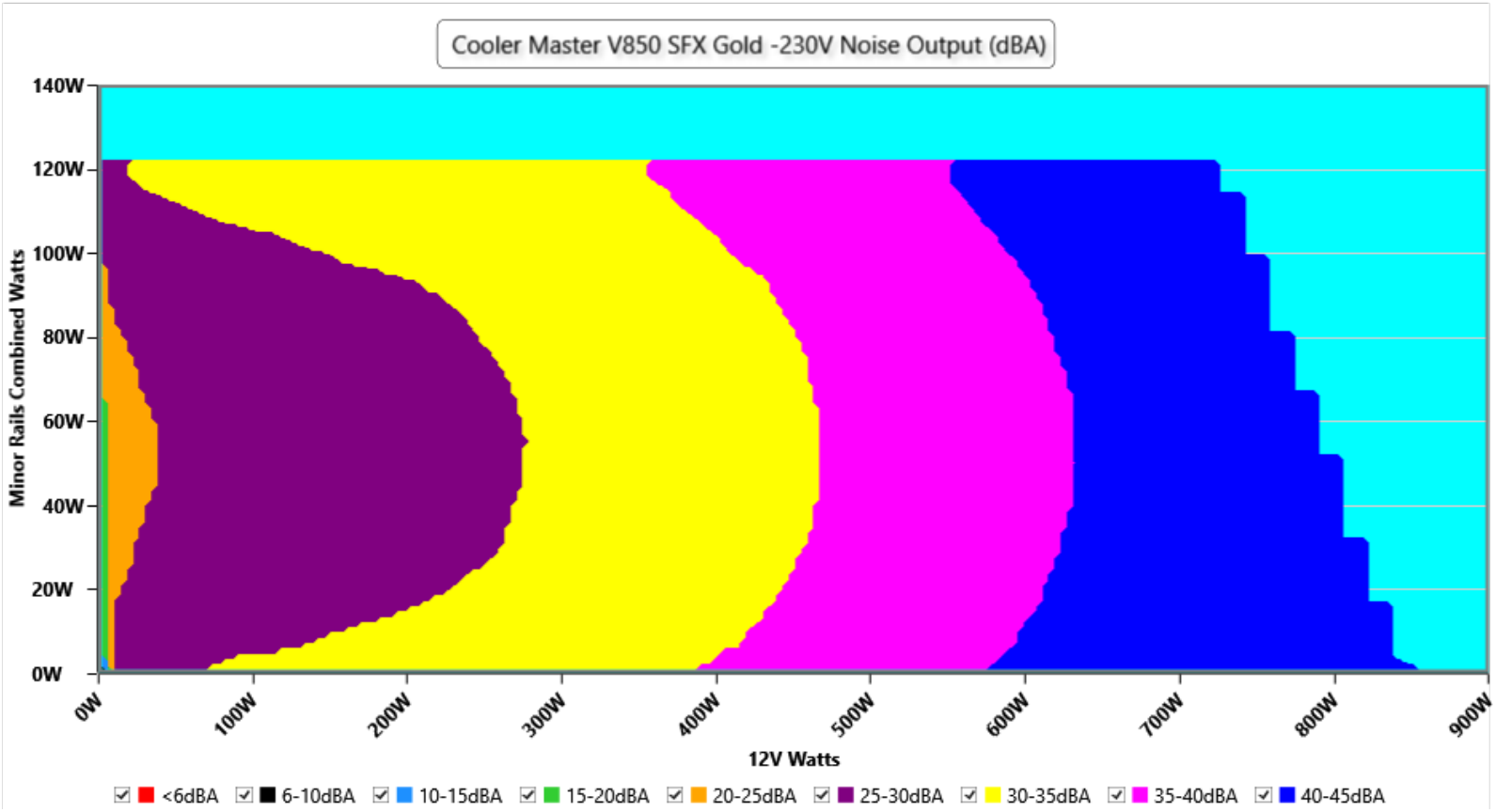
**115V**




**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

## 230V

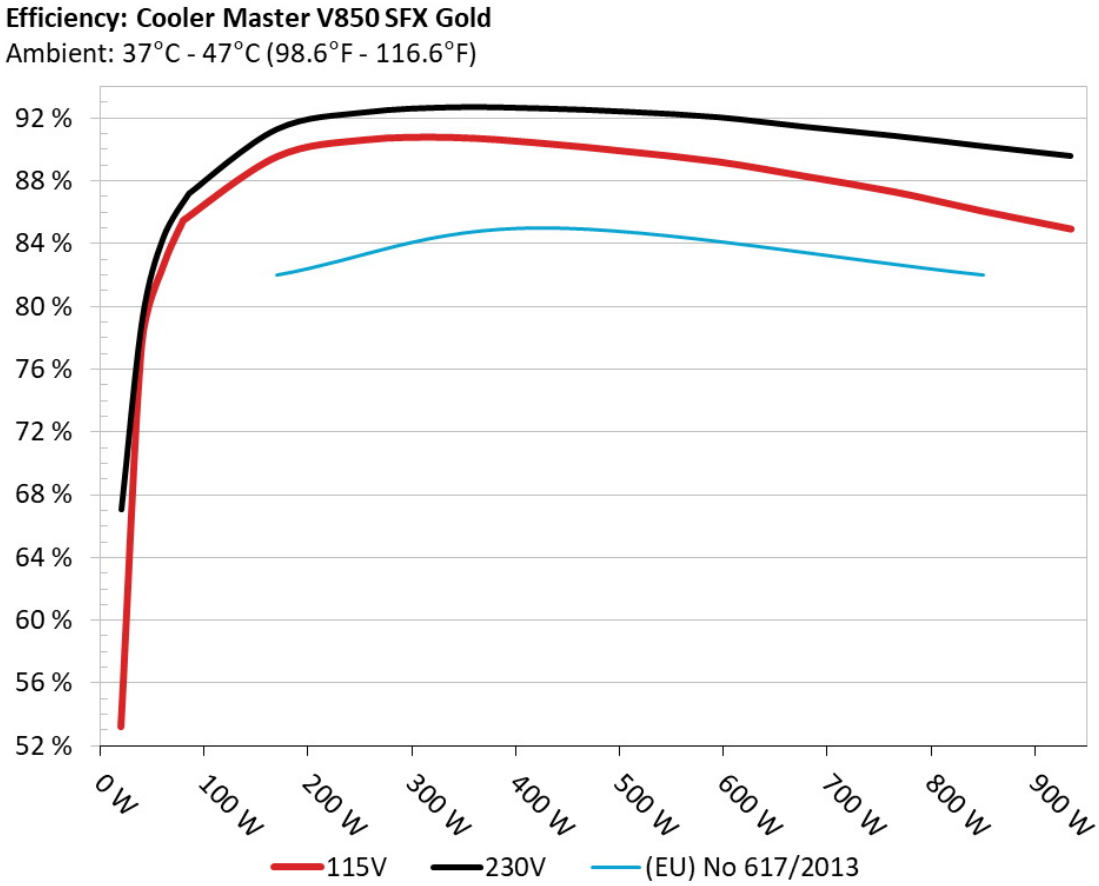



### INFO

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

## Indicative Performance

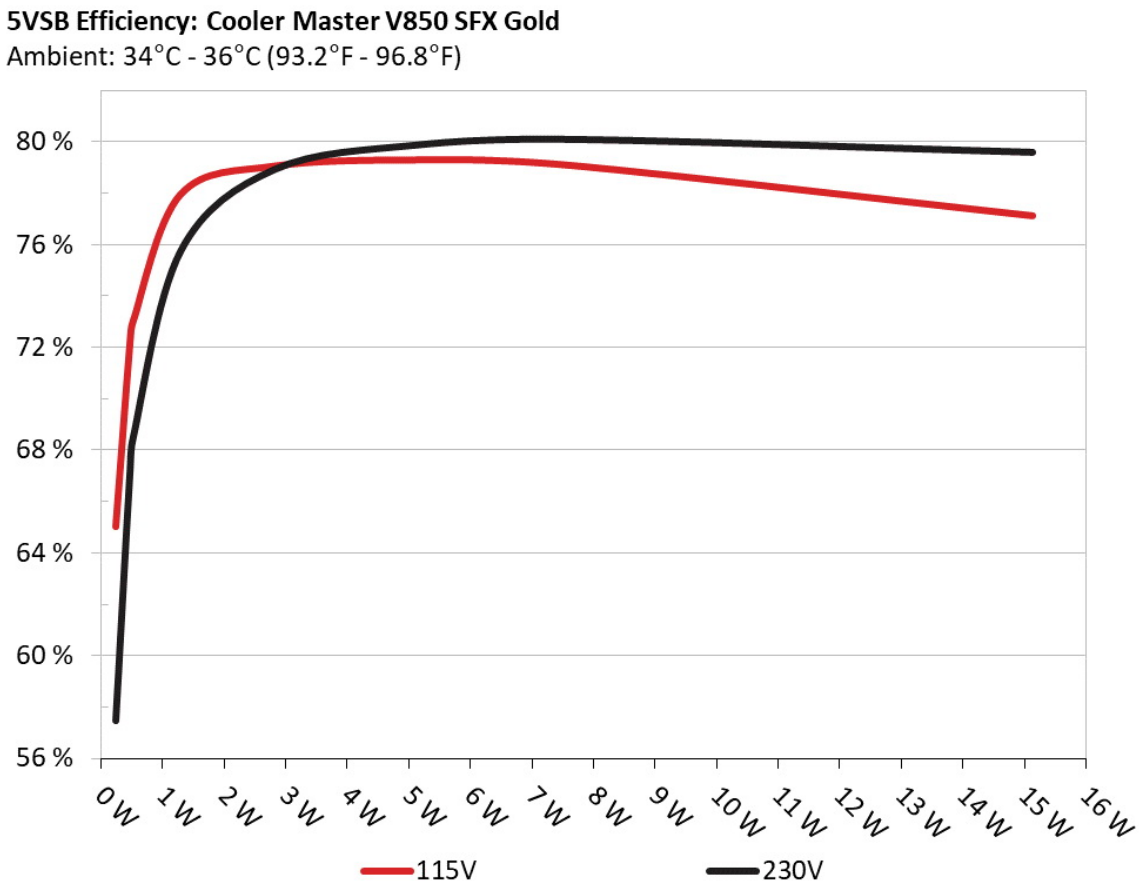
### Efficiency under high ambient temperature




**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

## 5VSB Efficiency (ERP LOT 3/6 & CEC)

### 115V

| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
|---|---|---|---|---|
| 1 | 0.045A | 0.231W | 65.007% | 0.038 |
| | 5.136V | 0.341W | | 115.13V |
| 2 | 0.09A | 0.462W | 72.205% | 0.069 |
| | 5.135V | 0.64W | | 115.13V |
| 3 | 0.55A | 2.817W | 79.059% | 0.275 |
| | 5.121V | 3.563W | | 115.13V |
| 4 | 1A | 5.108W | 79.297% | 0.371 |
| | 5.107V | 6.442W | | 115.13V |
| 5 | 1.5A | 7.638W | 79.08% | 0.424 |
| | 5.091V | 9.658W | | 115.13V |
| 6 | 3.001A | 15.133W | 77.12% | 0.49 |
| | 5.043V | 19.622W | | 115.13V |

### 230V

| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
|---|---|---|---|---|
| 1 | 0.045A | 0.231W | 57.455% | 0.013 |
| | 5.135V | 0.402W | | 230.28V |
| 2 | 0.09A | 0.462W | 67.17% | 0.022 |
| | 5.135V | 0.688W | | 230.28V |
| 3 | 0.55A | 2.817W | 78.929% | 0.11 |
| | 5.12V | 3.569W | | 230.29V |
| 4 | 1A | 5.108W | 79.873% | 0.18 |
| | 5.106V | 6.395W | | 230.29V |
| 5 | 1.5A | 7.637W | 80.096% | 0.24 |
| | 5.09V | 9.535W | | 230.29V |
| 6 | 3.001A | 15.131W | 79.591% | 0.344 |
| | 5.042V | 19.011W | | 230.28V |

## Supplementary Tests (For Reference)

### Typical 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 10% | 5.240A | 2.001A | 1.98A | 0.982A | 85.019 | 85.501% | 1993 | 33.7 | 40.14°C | 0.949 |
| | 12.102V | 4.998V | 3.333V | 5.094V | 99.436 | | | | 43.32°C | 115.14V |
| 20% | 11.512A | 3.007A | 2.978A | 1.181A | 169.995 | 89.556% | 2148 | 36.2 | 40.88°C | 0.97 |
| | 12.082V | 4.989V | 3.325V | 5.081V | 189.821 | | | | 44.57°C | 115.14V |
| 30% | 18.151A | 3.514A | 3.483A | 1.382A | 255.017 | 90.631% | 2247 | 37.3 | 41.07°C | 0.983 |
| | 12.063V | 4.981V | 3.317V | 5.068V | 281.378 | | | | 45.33°C | 115.13V |
| 40% | 24.820A | 4.022A | 3.99A | 1.583A | 340.124 | 90.782% | 2423 | 39.6 | 41.35°C | 0.989 |
| | 12.043V | 4.974V | 3.309V | 5.055V | 374.662 | | | | 46.43°C | 115.13V |
| 50% | 31.155A | 5.037A | 5A | 1.786A | 425.189 | 90.417% | 2611 | 41.3 | 42.24°C | 0.992 |
| | 12.026V | 4.965V | 3.3V | 5.039V | 470.254 | | | | 47.84°C | 115.12V |
| 60% | 37.470A | 6.055A | 6.017A | 1.991A | 509.718 | 89.871% | 2743 | 42.9 | 42.39°C | 0.993 |
| | 12.007V | 4.956V | 3.292V | 5.024V | 567.166 | | | | 48.78°C | 115.12V |
| 70% | 43.874A | 7.078A | 7.039A | 2.197A | 595.04 | 89.232% | 2870 | 44.1 | 43.47°C | 0.994 |
| | 11.987V | 4.947V | 3.282V | 5.008V | 666.847 | | | | 50.27°C | 115.12V |
| 80% | 50.304A | 8.004A | 8.067A | 2.303A | 679.379 | 88.302% | 3016 | 46.5 | 43.68°C | 0.995 |
| | 11.966V | 4.938V | 3.273V | 4.996V | 769.381 | | | | 51.01°C | 115.12V |
| 90% | 57.160A | 8.627A | 8.578A | 2.41A | 765.297 | 87.308% | 3060 | 46.5 | 44.55°C | 0.995 |
| | 11.945V | 4.929V | 3.265V | 4.982V | 876.552 | | | | 52.45°C | 115.12V |
| 100% | 63.781A | 9.151A | 9.123A | 3.032A | 850.109 | 86.08% | 3062 | 46.5 | 45.44°C | 0.992 |
| | 11.922V | 4.92V | 3.256V | 4.949V | 987.582 | | | | 54.27°C | 115.15V |
| 110% | 70.295A | 10.188A | 10.258A | 3.04A | 934.699 | 84.953% | 3062 | 46.5 | 46.57°C | 0.991 |
| | 11.898V | 4.91V | 3.246V | 4.935V | 1100.257 | | | | 56.49°C | 115.12V |
| CL1 | 0.116A | 14.514A | 14.398A | 0A | 121.336 | 83.547% | 2758 | 41.1 | 42.2°C | 0.961 |
| | 12.120V | 4.976V | 3.313V | 5.105V | 145.231 | | | | 47.4°C | 115.14V |

| Test | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | Temps (In/Out) | PF/AC Volts |
|---|---|---|---|---|---|---|---|---|---|---|
| CL2 | 0.116A | 20.104A | 0A | 0A | 101.441 | 82.405% | 2578 | 41.1 | 43.27°C | 0.957 |
| | 12.115V | 4.976V | 3.329V | 5.116V | 123.101 | | | | 49.62°C | 115.14V |
| CL4 | 71.398A | 0A | 0A | 0.002A | 849.838 | 86.763% | 2792 | 43.0 | 45.93°C | 0.993 |
| | 11.903V | 4.938V | 3.274V | 5.072V | 979.497 | | | | 55.13°C | 115.13V |

The results above are not used in the certification process

**230V**

| Test | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | Temps (In/Out) | PF/AC Volts |
|---|---|---|---|---|---|---|---|---|---|---|
| 10% | 5.240A | 2.001A | 1.98A | 0.982A | 85.018 | 87.109% | 2088 | 35.3 | 40.13°C | 0.843 |
| | 12.103V | 4.998V | 3.334V | 5.093V | 97.599 | | | | 43.89°C | 230.28V |
| 20% | 11.512A | 3.007A | 2.978A | 1.181A | 169.993 | 91.27% | 2132 | 35.8 | 40.41°C | 0.923 |
| | 12.081V | 4.99V | 3.325V | 5.08V | 186.253 | | | | 44.54°C | 230.28V |
| 30% | 18.150A | 3.513A | 3.482A | 1.382A | 255.012 | 92.339% | 2402 | 39.4 | 41.28°C | 0.951 |
| | 12.063V | 4.982V | 3.318V | 5.066V | 276.17 | | | | 45.85°C | 230.28V |
| 40% | 24.816A | 4.021A | 3.989A | 1.584A | 340.118 | 92.657% | 2479 | 40.0 | 41.72°C | 0.963 |
| | 12.045V | 4.974V | 3.31V | 5.052V | 367.07 | | | | 46.76°C | 230.28V |
| 50% | 31.158A | 5.036A | 5A | 1.787A | 425.166 | 92.584% | 2591 | 41.2 | 42.17°C | 0.972 |
| | 12.024V | 4.966V | 3.301V | 5.038V | 459.222 | | | | 47.81°C | 230.28V |
| 60% | 37.479A | 6.054A | 6.016A | 1.991A | 509.683 | 92.367% | 2676 | 42.3 | 42.69°C | 0.977 |
| | 12.003V | 4.957V | 3.292V | 5.024V | 551.802 | | | | 48.93°C | 230.28V |
| 70% | 43.891A | 7.077A | 7.039A | 2.196A | 594.969 | 92.026% | 2792 | 42.9 | 43.41°C | 0.98 |
| | 11.981V | 4.947V | 3.282V | 5.01V | 646.521 | | | | 50.07°C | 230.28V |
| 80% | 50.313A | 8.004A | 8.065A | 2.303A | 679.352 | 91.413% | 3067 | 46.6 | 43.62°C | 0.982 |
| | 11.964V | 4.939V | 3.274V | 4.994V | 743.166 | | | | 51.26°C | 230.28V |
| 90% | 57.171A | 8.625A | 8.576A | 2.411A | 765.287 | 90.839% | 3066 | 46.6 | 44.65°C | 0.984 |
| | 11.942V | 4.929V | 3.265V | 4.98V | 842.469 | | | | 52.9°C | 230.27V |
| 100% | 63.792A | 9.151A | 9.123A | 3.033A | 850.118 | 90.189% | 3069 | 46.6 | 45.42°C | 0.986 |
| | 11.920V | 4.92V | 3.256V | 4.946V | 942.599 | | | | 54.55°C | 230.27V |

| Test | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | Temps (In/Out) | PF/AC Volts |
|---|---|---|---|---|---|---|---|---|---|---|
| 110% | 70.323A | 10.187A | 10.26A | 3.039A | 934.666 | 89.566% | 3066 | 46.6 | 46.92°C | 0.988 |
| | 11.893V | 4.91V | 3.246V | 4.938V | 1043.549 | | | | 56.74°C | 230.27V |
| CL1 | 0.116A | 14.514A | 14.399A | 0A | 121.339 | 85.136% | 2773 | 43.0 | 42.86°C | 0.897 |
| | 12.117V | 4.976V | 3.313V | 5.106V | 142.524 | | | | 47.81°C | 230.29V |
| CL2 | 0.116A | 20.105A | 0A | 0A | 101.441 | 84.052% | 2456 | 40.1 | 43.68°C | 0.876 |
| | 12.108V | 4.976V | 3.328V | 5.118V | 120.689 | | | | 49.99°C | 230.29V |
| CL4 | 71.425A | 0A | 0A | 0.002A | 849.794 | 90.873% | 2762 | 43.0 | 45.25°C | 0.986 |
| | 11.898V | 4.938V | 3.274V | 5.074V | 935.153 | | | | 54.26°C | 230.28V |

The results above are not used in the certification process

## Light 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 20W | 1.226A | 0.5A | 0.494A | 0.195A | 20.011 | 53.242% | 1774 | 30.6 | 36.79°C | 0.864 |
| | 12.127V | 5.005V | 3.341V | 5.127V | 37.586 | | | | 38.13°C | 115.14V |
| 40W | 2.696A | 0.7A | 0.692A | 0.293A | 40.012 | 77.611% | 1785 | 30.8 | 37.94°C | 0.89 |
| | 12.131V | 5.003V | 3.339V | 5.121V | 51.555 | | | | 39.61°C | 115.14V |
| 60W | 4.174A | 0.9A | 0.89A | 0.391A | 60.014 | 82.472% | 1831 | 31.6 | 38.68°C | 0.922 |
| | 12.107V | 5.001V | 3.337V | 5.116V | 72.769 | | | | 40.83°C | 115.14V |
| 80W | 5.648A | 1.1A | 1.089A | 0.489A | 79.981 | 85.493% | 1920 | 32.9 | 39.59°C | 0.944 |
| | 12.102V | 5V | 3.335V | 5.112V | 93.553 | | | | 42.32°C | 115.14V |

The results above are not used in the certification process

### 230V

| Test | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | Temps (In/Out) | PF/AC Volts |
|---|---|---|---|---|---|---|---|---|---|---|
| 20W | 1.224A | 0.5A | 0.494A | 0.195A | 20.012 | 67.087% | 1622 | 27.7 | 36.9°C | 0.561 |
| | 12.134V | 5.006V | 3.341V | 5.125V | 29.83 | | | | 38.29°C | 230.28V |

| Test | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | Temps (In/Out) | PF/AC Volts |
|---|---|---|---|---|---|---|---|---|---|---|
| 40W | 2.696A | 0.7A | 0.692A | 0.293A | 40.012 | 79.111% | 1758 | 30.4 | 37.31°C | 0.705 |
| | 12.130V | 5.004V | 3.34V | 5.12V | 50.577 | | | | 39.22°C | 230.28V |
| 60W | 4.174A | 0.9A | 0.89A | 0.391A | 60.012 | 84.303% | 1870 | 32.1 | 38.53°C | 0.786 |
| | 12.107V | 5.002V | 3.338V | 5.116V | 71.186 | | | | 40.77°C | 230.28V |
| 80W | 5.648A | 1.1A | 1.088A | 0.489A | 79.978 | 87.174% | 1945 | 33.4 | 39.54°C | 0.834 |
| | 12.101V | 5V | 3.336V | 5.111V | 91.746 | | | | 42.52°C | 230.28V |

The results above are not used in the certification process

## Ripple Measurements

### 115V

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 10% Load | 15.66mV | 11.08mV | 13.50mV | 5.12mV | Pass |
| 20% Load | 12.90mV | 11.03mV | 13.70mV | 5.68mV | Pass |
| 30% Load | 13.00mV | 12.67mV | 14.42mV | 6.86mV | Pass |
| 40% Load | 13.00mV | 12.51mV | 12.99mV | 7.57mV | Pass |
| 50% Load | 13.71mV | 13.43mV | 13.86mV | 8.60mV | Pass |
| 60% Load | 14.18mV | 13.99mV | 15.44mV | 9.72mV | Pass |
| 70% Load | 14.48mV | 15.17mV | 14.88mV | 12.44mV | Pass |
| 80% Load | 15.86mV | 16.55mV | 15.55mV | 13.92mV | Pass |
| 90% Load | 18.78mV | 15.99mV | 18.31mV | 16.79mV | Pass |
| 100% Load | 63.21mV | 35.79mV | 86.38mV | 24.61mV | Fail |
| 110% Load | 82.99mV | 51.36mV | 102.50mV | 35.69mV | Fail |
| Crossload1 | 19.88mV | 13.04mV | 14.63mV | 6.71mV | Pass |
| Crossload2 | 14.99mV | 11.08mV | 12.84mV | 4.81mV | Pass |
| Crossload3 | 0.00mV | 0.00mV | 0.00mV | 0.00mV | Pass |
| Crossload4 | 22.97mV | 18.45mV | 18.88mV | 15.77mV | Pass |

The results above are not used in the certification process

## 230V

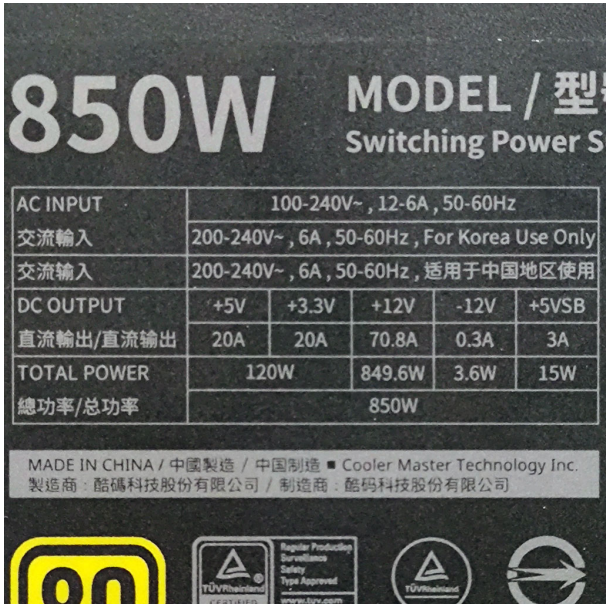
| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 10% Load | 17.47mV | 10.47mV | 13.19mV | 5.37mV | Pass |
| 20% Load | 11.56mV | 11.44mV | 11.91mV | 5.73mV | Pass |
| 30% Load | 12.54mV | 11.95mV | 13.55mV | 6.91mV | Pass |
| 40% Load | 11.51mV | 12.26mV | 12.94mV | 7.42mV | Pass |
| 50% Load | 12.38mV | 12.41mV | 12.74mV | 8.90mV | Pass |
| 60% Load | 12.02mV | 13.23mV | 13.91mV | 9.31mV | Pass |
| 70% Load | 12.69mV | 13.79mV | 13.81mV | 11.15mV | Pass |
| 80% Load | 13.92mV | 13.94mV | 15.09mV | 13.41mV | Pass |
| 90% Load | 16.73mV | 13.84mV | 13.50mV | 15.35mV | Pass |
| 100% Load | 23.08mV | 15.37mV | 15.58mV | 19.03mV | Pass |
| 110% Load | 24.74mV | 15.71mV | 15.53mV | 20.77mV | Pass |
| Crossload1 | 19.60mV | 13.51mV | 14.53mV | 6.16mV | Pass |
| Crossload2 | 14.64mV | 11.85mV | 11.97mV | 4.81mV | Pass |
| Crossload3 | 0.00mV | 0.00mV | 0.00mV | 0.00mV | Pass |
| Crossload4 | 23.31mV | 14.69mV | 14.96mV | 14.95mV | Pass |

The results above are not used in the certification process

## Cooler Master V850 SFX Gold (2021)



Top side




Power specifications label

Cybenetics bietet freiwillige Zertifizierungsprogramme für Netzteile – ETA für Effizienz, LAMBDA für Lautstärke und SAFE für Sicherheit und korrekten Betrieb – sowie für Kühlprodukte mit DELTA für die Schalldämmung von Gehäusen und PHI für Luftstrom und statischen Druck von Lüftern

CYBENETICS LTD Syrou 6, Latsia, 2231, Nicosia Cyprus

www.cybenetics.com - info@cybenetics.com