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# Cooler Master V550 Gold SFX (2021)

Serial Number MPY5501SFHAGVEU1210500001

Lab ID CM55001834

Certification ID 251834

Test Result Report ID: 21PS1834A

Certificate Issue Date: Apr 21, 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 | V550 Gold SFX (2021) |
| OEM/ODM | Gospower |
| Serial Number | MPY5501SFHAGVEU1210500001 |
| Product Specifications | |
| Manufacturer-Provided Information | |
| Rated Voltage (Vrms) | 100-240 |
| Rated Current (Arms) | 8-4 |
| Rated Frequency (Hz) | 50-60 |

| | |
|---|---|
| Rated Power (W) | 550 |
| 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 | CM55001834 |
| Date of receipt | Apr 5, 2021 |
| Testing Date | Apr 16, 2021 |
| Report Issued Date | Apr 21, 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 | 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 | 45.8 | 3 | 0.3 |
| | Watts | 120 | | 549.6 | 15 | 3.6 |
| Total Max. Power (W) | | 550 | | | | |

## 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  GBU2508 (800V, 25A @ 98°C) |
| APFC MOSFETs | 2x STMicroelectronics STF33N60DM2 (650V, 15.5A @ 100°C, Rds(on): 0.13Ohm) |
| APFC Boost Diode | 1x |
| Bulk Cap(s) | 1x Nichicon (450V, 390uF, 2,000h @ 105°C, GM) |
| Main Switchers | 2x Sanrise Tech SRC60R140BTFE (630V, 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 NCE Power NCEP40T15GU (40V, 106A @ 100°C, Rds(on): 1.35mOhm) |
| 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: 29x FPCAP |
| Supervisor IC | - |
| 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) | 89.599% |
| Average Noise Output (>1450 Load Combinations) | 30.50dBA |
| Average PF (>1450 Load Combinations) | 0.985 |
| Efficiency With 10W (≤500W) or 2% (>500W) Load | 47.449% |
| Standby Power Consumption | 0.0430W |
| Non-Accredited | |
| 12V Ripple (Full Load) | 12.39mV |
| 5V Ripple (Full Load) | 10.42mV |
| 3.3V Ripple (Full Load) | 9.36mV |
| 5VSB Ripple (Full Load) | 15.14mV |
| 12V Load Regulation | 1.04% |
| 5V Load Regulation | 1.04% |
| 3.3V Load Regulation | 1.48% |
| 5VSB Load Regulation | 2.63% |
| Inrush Current | 67.540A |

| 230V | | |
|---|---|---|
| Accredited | | |
| Average Efficiency (>1450 load combinations) | | 91.430% |
| Average Noise Output (>1450 Load Combinations) | | 31.87dBA |
| Average PF (>1450 Load Combinations) | | 0.946 |
| Efficiency With 10W (≤500W) or 2% (>500W) Load | | - |
| Standby Power Consumption | | 0.0855W |
| Non-Accredited | | |
| 12V Ripple (Full Load) | | 14.20mV |
| 5V Ripple (Full Load) | | 10.58mV |
| 3.3V Ripple (Full Load) | | 9.41mV |
| 5VSB Ripple (Full Load) | | 15.30mV |
| 12V Load Regulation | | 0.97% |
| 5V Load Regulation | | 1.02% |
| 3.3V Load Regulation | | 1.42% |
| 5VSB Load Regulation | | 2.61% |
| Inrush Current | | 90.680A |
| Hold-Up Time & PWR_OK Signal | | 20.80ms |
| AC Loss to PWR_OK Hold Up Time | | 15.60ms |
| PWR_OK Inactive to DC Loss Delay | | 5.20ms |
| PSU Timings: T1 (20% / 100%) | 44.0ms | 46.0ms |
| PSU Timings: T3 (20% / 100%) | 128.0ms | 126.0ms |
| OPP (25.07°C / 44.63°C) | 119.95% | 119.49% |

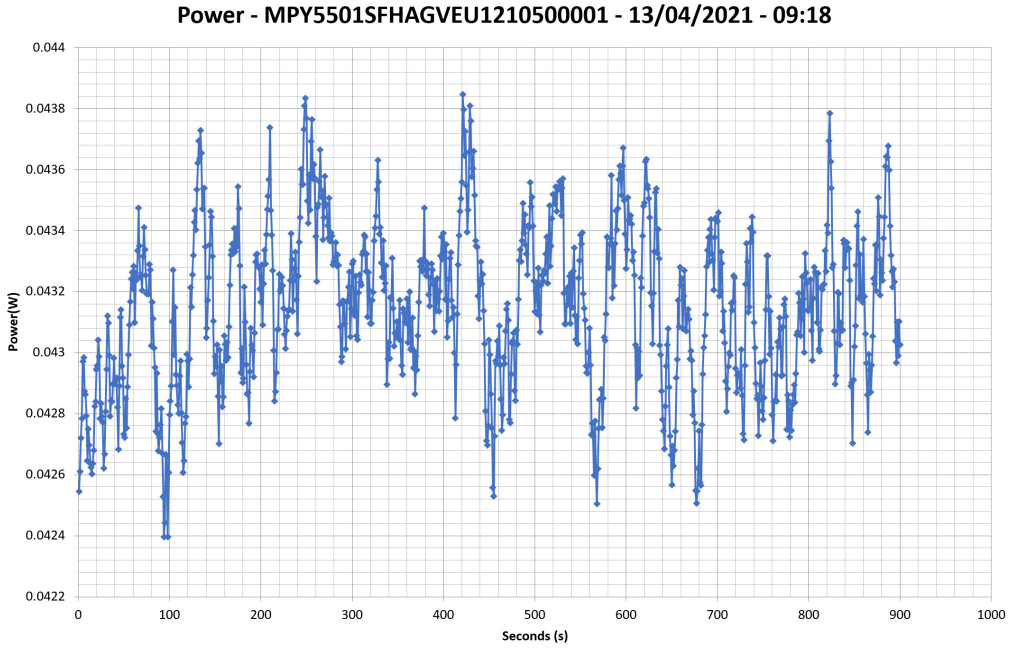
## Hold-Up Time & PWR_OK Signal

| | |
|---|---|
| Hold-Up Time (ms) | 20.8 |
| AC Loss to PWR_OK Hold Up Time (ms) | 15.6 |
| PWR_OK Inactive to DC Loss Delay (ms) | 5.2 |

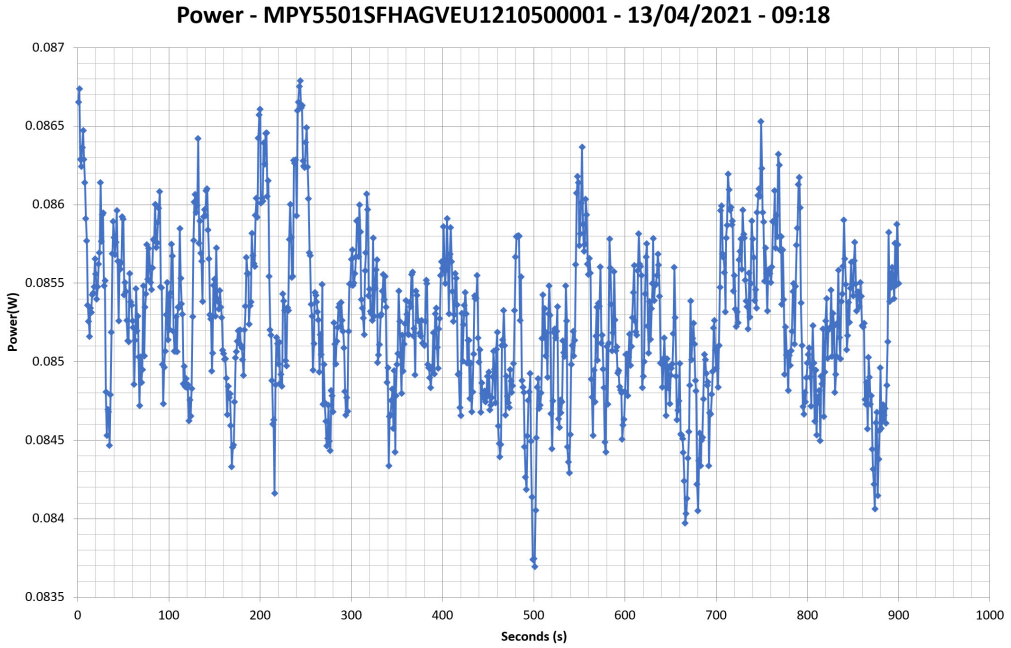
## Stromverbrauch im Ruhezustand

### Graphs

**115V**

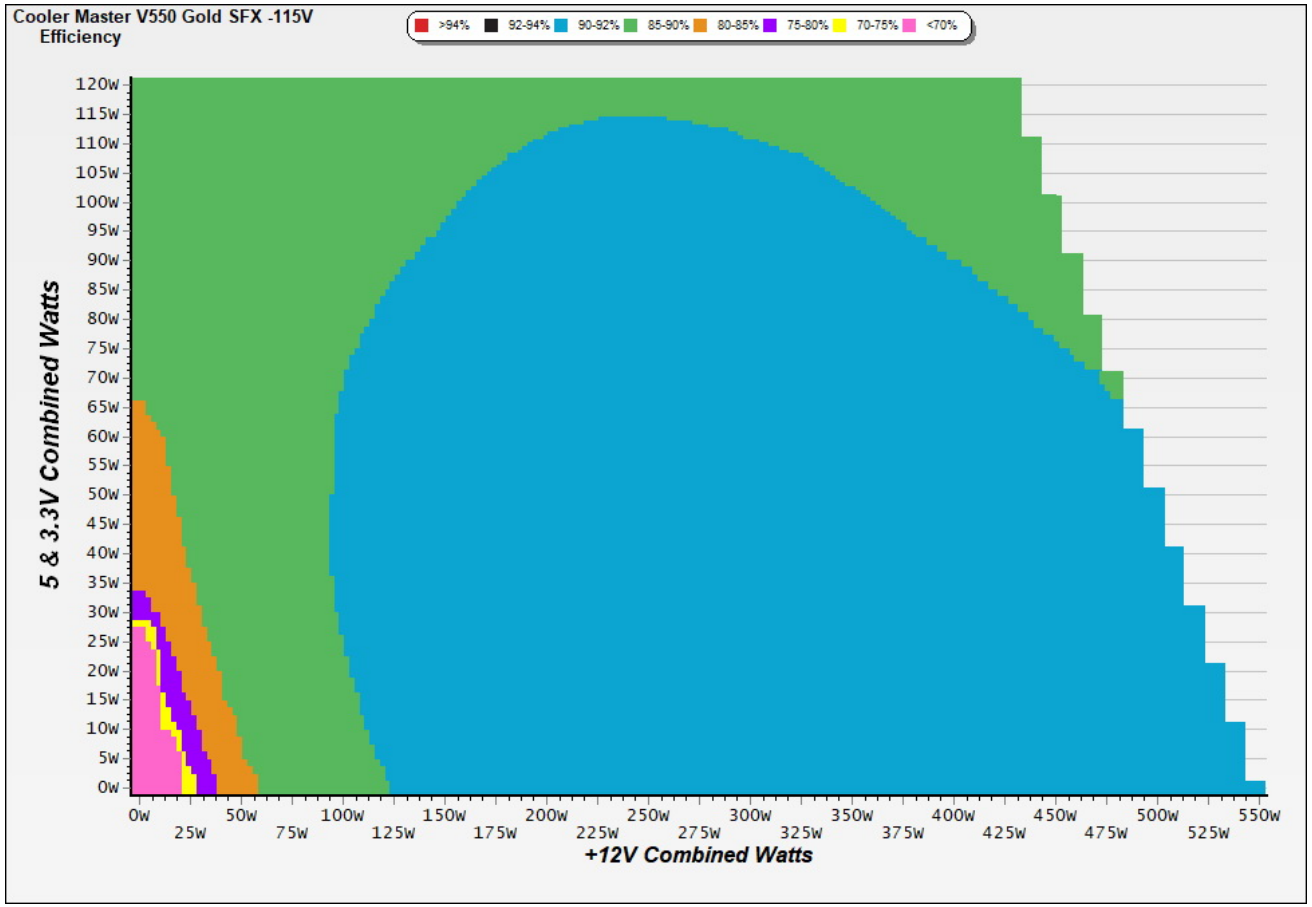



**230V**



## Efficiency Graph

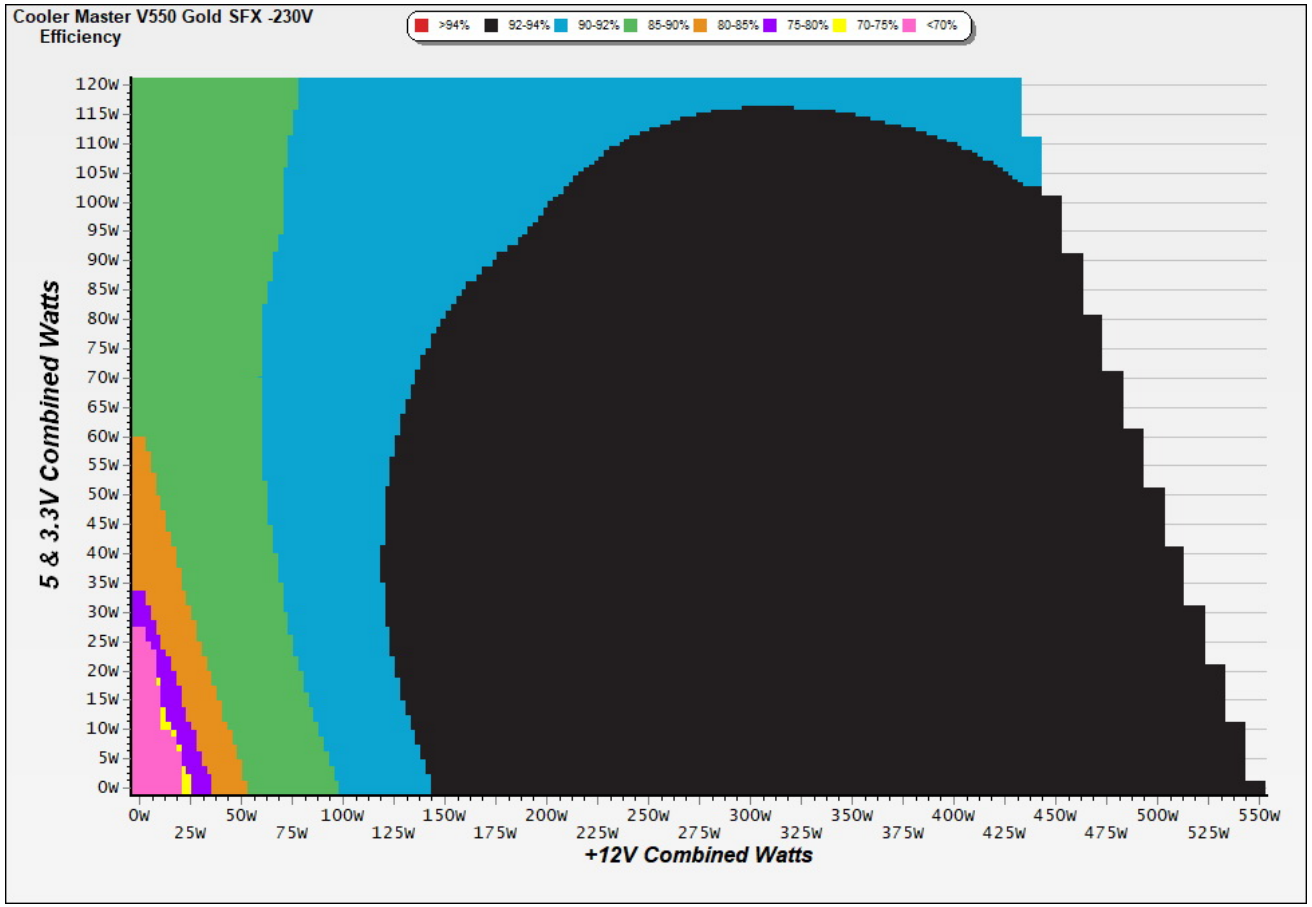
### 115V




### 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

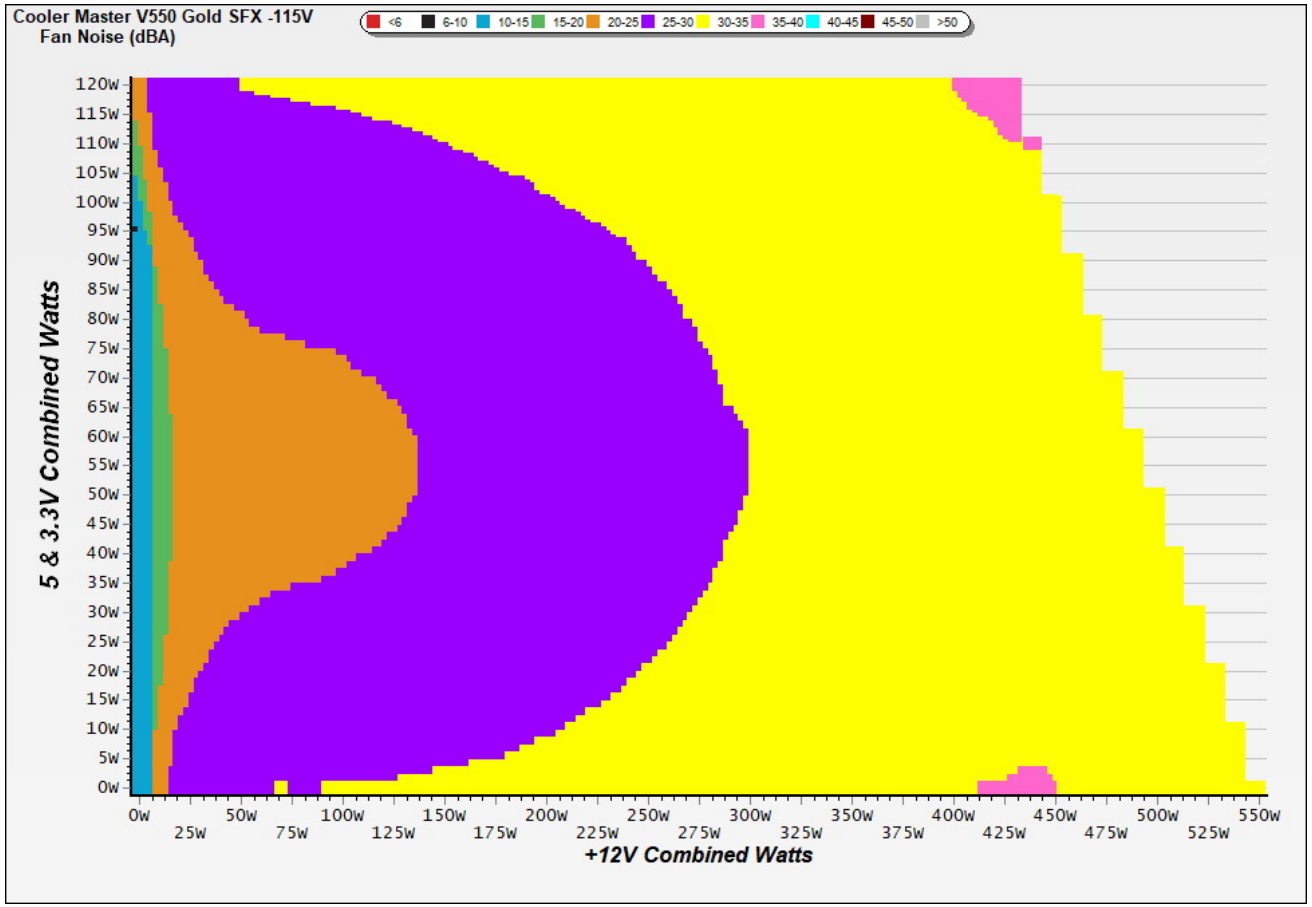



### INFO

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

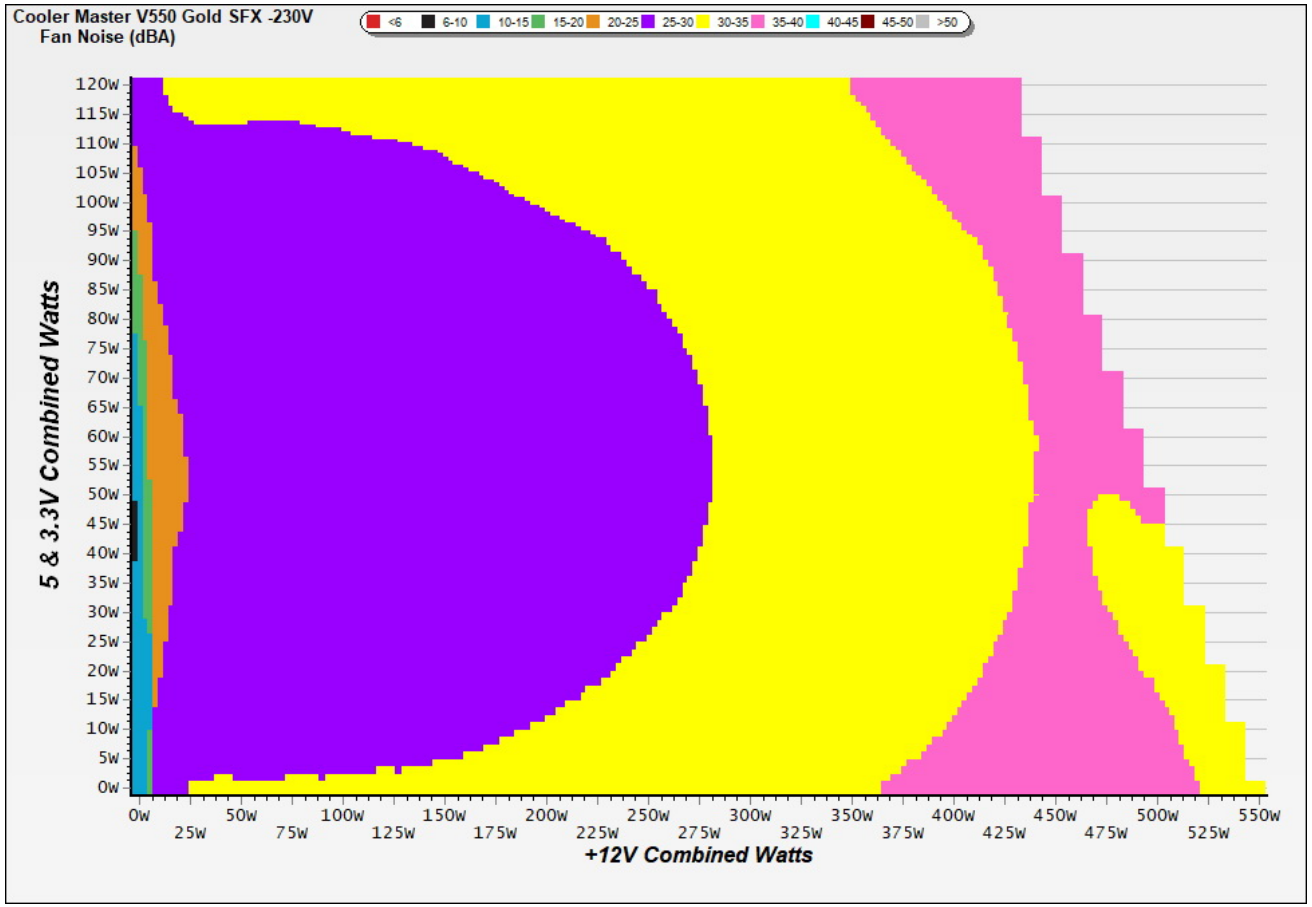
### 115V




### 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

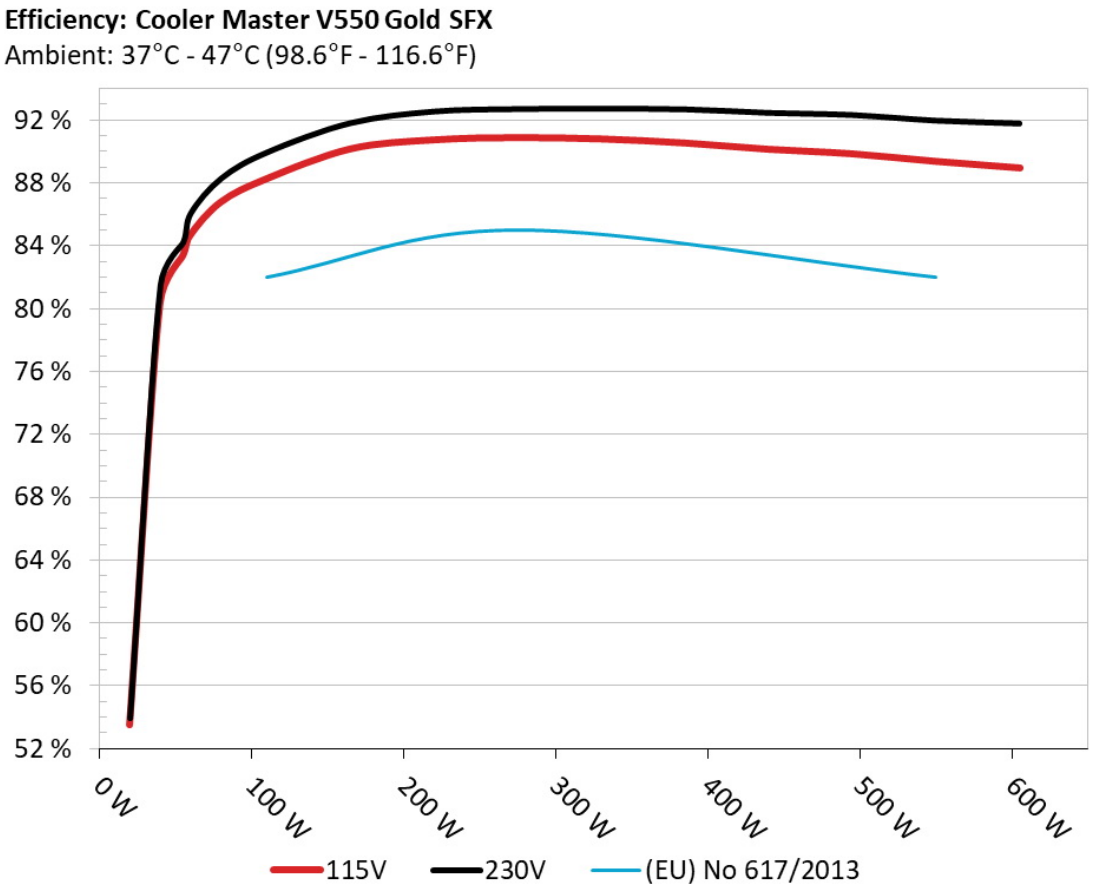



### INFO

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

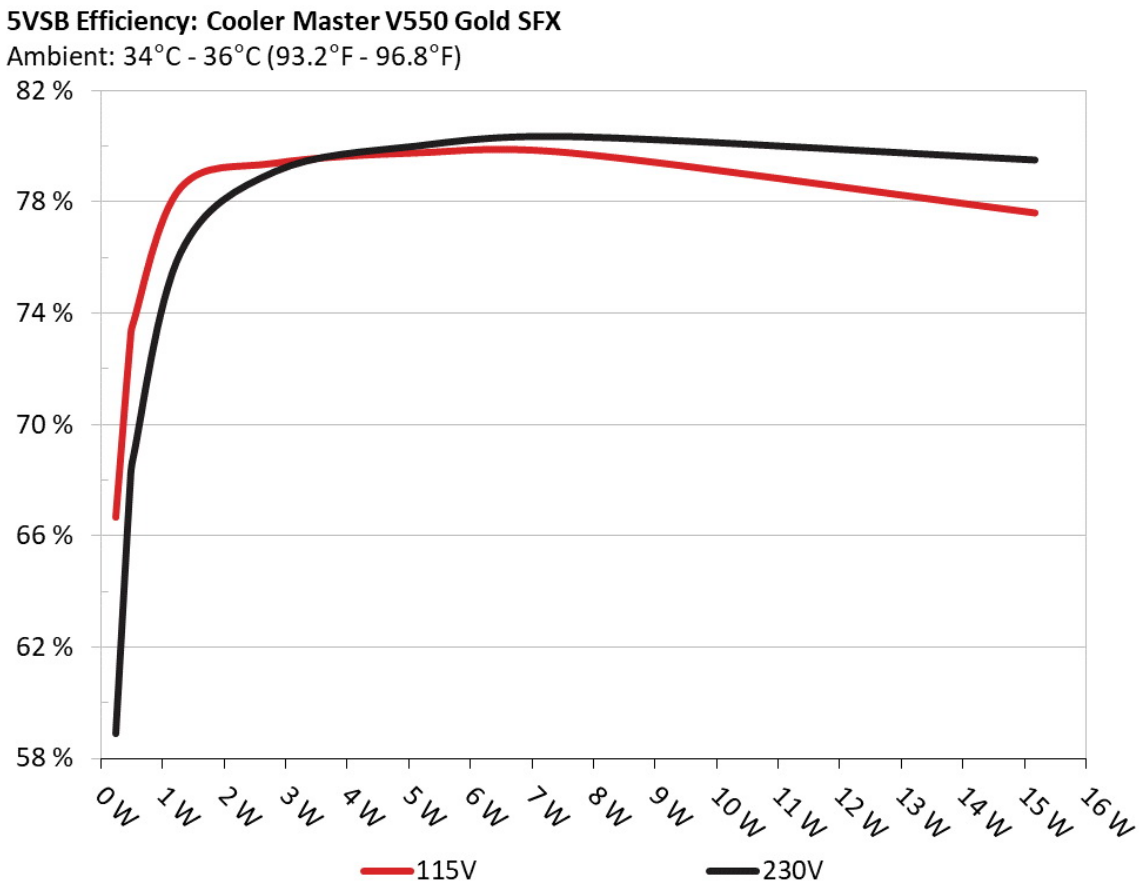
### Efficiency under high ambient temperature




**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 | 0.232 | 66.667% | 0.041 |
| | 5.145V | 0.348 | | 115.16V |
| 2 | 0.090A | 0.463 | 72.913% | 0.074 |
| | 5.144V | 0.635 | | 115.15V |
| 3 | 0.550A | 2.822 | 79.381% | 0.295 |
| | 5.131V | 3.555 | | 115.15V |
| 4 | 1.000A | 5.119 | 79.748% | 0.386 |
| | 5.118V | 6.419 | | 115.14V |
| 5 | 1.500A | 7.657 | 79.744% | 0.433 |
| | 5.103V | 9.602 | | 115.14V |
| 6 | 3.000A | 15.179 | 77.594% | 0.502 |
| | 5.060V | 19.562 | | 115.11V |

### 230V

| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
|---|---|---|---|---|
| 1 | 0.045A | 0.232 | 58.883% | 0.014 |
| | 5.144V | 0.394 | | 230.34V |
| 2 | 0.090A | 0.463 | 67.789% | 0.025 |
| | 5.143V | 0.683 | | 230.34V |
| 3 | 0.550A | 2.822 | 79.092% | 0.119 |
| | 5.130V | 3.568 | | 230.30V |
| 4 | 1.000A | 5.118 | 80.006% | 0.193 |
| | 5.117V | 6.397 | | 230.30V |
| 5 | 1.500A | 7.656 | 80.344% | 0.253 |
| | 5.103V | 9.529 | | 230.30V |
| 6 | 3.000A | 15.177 | 79.507% | 0.351 |
| | 5.059V | 19.089 | | 230.31V |

## 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.749A | 2.000A | 1.955A | 0.979A | 54.962 | 83.354% | 1911 | 32.8 | 40.19°C | 0.973 |
| | 12.139V | 4.998V | 3.374V | 5.108V | 65.938 | | | | 42.79°C | 115.16V |
| 2 | 6.528A | 3.003A | 2.939A | 1.177A | 110.028 | 88.254% | 2123 | 35.6 | 40.72°C | 0.980 |
| | 12.122V | 4.993V | 3.369V | 5.098V | 124.672 | | | | 44.21°C | 115.15V |
| 3 | 10.651A | 3.510A | 3.432A | 1.376A | 165.024 | 90.151% | 2148 | 36.2 | 40.73°C | 0.988 |
| | 12.109V | 4.987V | 3.364V | 5.088V | 183.052 | | | | 44.75°C | 115.14V |
| 4 | 14.783A | 4.016A | 3.929A | 1.576A | 220.026 | 90.732% | 2310 | 38.2 | 41.39°C | 0.980 |
| | 12.096V | 4.982V | 3.360V | 5.077V | 242.502 | | | | 45.84°C | 115.13V |
| 5 | 18.576A | 5.025A | 4.920A | 1.777A | 275.018 | 90.869% | 2360 | 38.8 | 42.20°C | 0.982 |
| | 12.086V | 4.976V | 3.354V | 5.066V | 302.654 | | | | 47.27°C | 115.15V |
| 6 | 22.380A | 6.037A | 5.914A | 1.979A | 330.011 | 90.787% | 2459 | 40.1 | 42.41°C | 0.986 |
| | 12.073V | 4.971V | 3.349V | 5.054V | 363.499 | | | | 48.68°C | 115.18V |
| 7 | 26.196A | 7.051A | 6.911A | 2.182A | 385.092 | 90.527% | 2544 | 41.2 | 43.01°C | 0.989 |
| | 12.062V | 4.965V | 3.343V | 5.043V | 425.389 | | | | 49.79°C | 115.22V |
| 8 | 30.016A | 8.002A | 7.910A | 2.386A | 439.803 | 90.131% | 2730 | 42.9 | 43.52°C | 0.991 |
| | 12.051V | 4.959V | 3.337V | 5.030V | 487.960 | | | | 50.88°C | 115.19V |
| 9 | 34.234A | 8.579A | 8.400A | 2.389A | 494.646 | 89.842% | 2781 | 42.9 | 44.20°C | 0.993 |
| | 12.039V | 4.954V | 3.333V | 5.025V | 550.576 | | | | 52.42°C | 115.19V |
| 10 | 38.260A | 9.095A | 8.926A | 3.001A | 549.860 | 89.361% | 2852 | 43.7 | 45.53°C | 0.994 |
| | 12.027V | 4.948V | 3.327V | 5.001V | 615.327 | | | | 54.66°C | 115.18V |
| 11 | 42.895A | 9.106A | 8.938A | 3.004A | 605.097 | 88.942% | 2965 | 45.3 | 46.71°C | 0.995 |
| | 12.015V | 4.943V | 3.323V | 4.994V | 680.331 | | | | 56.46°C | 115.20V |
| CL1 | 0.117A | 14.003A | 13.999A | 0.000A | 118.150 | 84.690% | 2678 | 42.4 | 42.96°C | 0.985 |
| | 12.133V | 4.984V | 3.353V | 5.114V | 139.508 | | | | 47.63°C | 115.13V |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CL2 | 45.845A | 1.000A | 1.000A | 1.000A | 564.284 | 89.995% | 2656 | 41.6 | 45.90°C | 0.994 |
| | 12.017V | 4.954V | 3.339V | 5.073V | 627.017 | | | | 54.68°C | 115.15V |

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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.747A | 2.001A | 1.956A | 0.979A | 54.963 | 84.198% | 2071 | 34.9 | 40.12°C | 0.815 |
| | 12.143V | 4.999V | 3.375V | 5.108V | 65.278 | | | | 43.75°C | 230.32V |
| 2 | 6.528A | 3.004A | 2.938A | 1.177A | 110.029 | 89.926% | 2058 | 34.6 | 40.74°C | 0.908 |
| | 12.122V | 4.993V | 3.369V | 5.097V | 122.355 | | | | 44.60°C | 230.32V |
| 3 | 10.652A | 3.509A | 3.434A | 1.376A | 165.025 | 91.795% | 2166 | 36.4 | 41.50°C | 0.937 |
| | 12.108V | 4.987V | 3.364V | 5.087V | 179.775 | | | | 45.87°C | 230.32V |
| 4 | 14.784A | 4.016A | 3.927A | 1.576A | 220.028 | 92.528% | 2246 | 37.3 | 42.11°C | 0.952 |
| | 12.096V | 4.982V | 3.359V | 5.077V | 237.797 | | | | 47.23°C | 230.32V |
| 5 | 18.579A | 5.025A | 4.920A | 1.777A | 275.023 | 92.683% | 2540 | 41.1 | 42.85°C | 0.959 |
| | 12.084V | 4.977V | 3.354V | 5.066V | 296.734 | | | | 48.60°C | 230.32V |
| 6 | 22.375A | 6.036A | 5.914A | 1.980A | 330.016 | 92.710% | 2562 | 41.2 | 43.04°C | 0.965 |
| | 12.076V | 4.971V | 3.349V | 5.053V | 355.965 | | | | 49.43°C | 230.33V |
| 7 | 26.198A | 7.052A | 6.912A | 2.182A | 385.099 | 92.665% | 2573 | 41.1 | 43.69°C | 0.967 |
| | 12.061V | 4.965V | 3.343V | 5.043V | 415.581 | | | | 50.81°C | 230.35V |
| 8 | 30.020A | 8.002A | 7.911A | 2.386A | 439.823 | 92.444% | 2700 | 42.6 | 43.87°C | 0.970 |
| | 12.050V | 4.959V | 3.337V | 5.030V | 475.773 | | | | 51.82°C | 230.34V |
| 9 | 34.241A | 8.583A | 8.403A | 2.389A | 494.674 | 92.307% | 2733 | 42.9 | 44.07°C | 0.973 |
| | 12.037V | 4.953V | 3.332V | 5.025V | 535.903 | | | | 52.85°C | 230.33V |
| 10 | 38.269A | 9.097A | 8.926A | 3.001A | 549.899 | 91.954% | 2877 | 44.2 | 45.55°C | 0.975 |
| | 12.025V | 4.948V | 3.327V | 5.000V | 598.015 | | | | 54.85°C | 230.37V |
| 11 | 42.914A | 9.104A | 8.938A | 3.002A | 605.103 | 91.764% | 2927 | 44.8 | 46.54°C | 0.976 |
| | 12.010V | 4.943V | 3.323V | 4.998V | 659.409 | | | | 56.31°C | 230.36V |
| CL1 | 0.117A | 14.001A | 14.001A | 0.000A | 118.146 | 86.188% | 2685 | 42.4 | 42.29°C | 0.917 |
| | 12.134V | 4.984V | 3.353V | 5.113V | 137.080 | | | | 48.47°C | 230.37V |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CL2 | 45.845A | 1.000A | 1.000A | 1.000A | 564.241 | 92.663% | 2629 | 41.3 | 45.44°C | 0.974 |
| | 12.016V | 4.954V | 3.339V | 5.073V | 608.914 | | | | 54.59°C | 230.35V |

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]) | PF/AC Volts |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.221A | 0.501A | 0.487A | 0.195A | 19.992 | 53.489% | 1638 | 28.1 | 0.940 |
| | 12.153V | 5.002V | 3.379V | 5.136V | 37.376 | | | | 115.17V |
| 2 | 2.442A | 1.001A | 0.976A | 0.390A | 39.981 | 80.356% | 1670 | 28.7 | 0.961 |
| | 12.154V | 5.000V | 3.377V | 5.128V | 49.755 | | | | 115.17V |
| 3 | 3.673A | 1.501A | 1.466A | 0.586A | 60.011 | 84.687% | 1848 | 31.9 | 0.976 |
| | 12.132V | 4.998V | 3.375V | 5.120V | 70.862 | | | | 115.16V |
| 4 | 4.894A | 2.002A | 1.957A | 0.782A | 79.960 | 86.776% | 1887 | 32.3 | 0.978 |
| | 12.129V | 4.996V | 3.373V | 5.113V | 92.145 | | | | 115.16V |

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]) | PF/AC Volts |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.221A | 0.500A | 0.489A | 0.195A | 19.992 | 53.965% | 1770 | 30.5 | 0.682 |
| | 12.152V | 5.002V | 3.379V | 5.136V | 37.046 | | | | 230.39V |
| 2 | 2.442A | 1.000A | 0.977A | 0.390A | 39.981 | 81.497% | 1856 | 31.9 | 0.757 |
| | 12.155V | 5.000V | 3.377V | 5.127V | 49.058 | | | | 230.33V |
| 3 | 3.672A | 1.502A | 1.466A | 0.586A | 60.011 | 86.072% | 1842 | 31.7 | 0.826 |
| | 12.134V | 4.998V | 3.375V | 5.120V | 69.722 | | | | 230.33V |
| 4 | 4.894A | 2.002A | 1.957A | 0.783A | 79.960 | 88.276% | 1942 | 33.2 | 0.867 |
| | 12.128V | 4.996V | 3.373V | 5.112V | 90.580 | | | | 230.32V |

The results above are not used in the certification process

## Ripple Measurements

### 115V

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 10% Load | 18.10mV | 5.40mV | 3.90mV | 6.60mV | Pass |
| 20% Load | 10.70mV | 6.10mV | 4.50mV | 8.20mV | Pass |
| 30% Load | 9.10mV | 6.70mV | 4.80mV | 8.30mV | Pass |
| 40% Load | 9.10mV | 7.40mV | 5.20mV | 9.10mV | Pass |
| 50% Load | 9.50mV | 7.40mV | 4.70mV | 10.00mV | Pass |
| 60% Load | 8.40mV | 7.70mV | 4.80mV | 10.60mV | Pass |
| 70% Load | 8.30mV | 8.30mV | 5.10mV | 11.70mV | Pass |
| 80% Load | 8.90mV | 8.30mV | 9.00mV | 13.00mV | Pass |
| 90% Load | 9.30mV | 9.40mV | 8.70mV | 14.00mV | Pass |
| 100% Load | 12.40mV | 10.40mV | 9.40mV | 15.10mV | Pass |
| 110% Load | 13.10mV | 11.00mV | 9.80mV | 15.90mV | Pass |
| Crossload1 | 14.20mV | 8.40mV | 10.40mV | 7.70mV | Pass |
| Crossload2 | 12.80mV | 9.80mV | 5.80mV | 12.90mV | Pass |

The results above are not used in the certification process

### 230V

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 10% Load | 22.90mV | 6.10mV | 4.20mV | 7.10mV | Pass |
| 20% Load | 12.80mV | 6.30mV | 4.40mV | 8.20mV | Pass |
| 30% Load | 9.50mV | 6.80mV | 4.80mV | 8.80mV | Pass |
| 40% Load | 9.80mV | 7.80mV | 4.30mV | 8.70mV | Pass |
| 50% Load | 10.50mV | 7.90mV | 5.60mV | 10.40mV | Pass |
| 60% Load | 9.90mV | 7.80mV | 5.30mV | 11.10mV | Pass |
| 70% Load | 10.50mV | 8.70mV | 5.40mV | 11.80mV | Pass |
| 80% Load | 9.50mV | 8.60mV | 9.00mV | 12.90mV | Pass |

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 90% Load | 10.10mV | 9.00mV | 8.20mV | 13.40mV | Pass |
| 100% Load | 14.20mV | 10.60mV | 9.40mV | 15.30mV | Pass |
| 110% Load | 14.70mV | 10.40mV | 9.80mV | 16.50mV | Pass |
| Crossload1 | 15.90mV | 8.60mV | 10.60mV | 8.40mV | Pass |
| Crossload2 | 14.10mV | 9.50mV | 5.70mV | 12.30mV | Pass |

The results above are not used in the certification process

**Cooler Master V550 Gold SFX (2021)**



Top side




Power specifications label

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