

Anex Corsair CX550F RGB

Lab ID#: CR55001674

Receipt Date: Jun 29, 2020

Test Date: Jul 7, 2020

Report: 20PS1674A

Report Date: Jul 7, 2020

| DUT INFORMATION | |
|--------------------|------------|
| Brand | Corsair |
| Manufacturer (OEM) | HEC |
| Series | CX-F |
| Model Number | RPS0133 |
| Serial Number | |
| DUT Notes | CP-9020225 |

| DUT SPECIFICATION | IS |
|------------------------|-------------------------------------|
| Rated Voltage (Vrms) | 100-240 |
| Rated Current (Arms) | 10-5 |
| Rated Frequency (Hz) | 47-63 |
| Rated Power (W) | 550 |
| Туре | ATX12V |
| Cooling | 120mm Rifle Bearing Fan (NR120L) |
| Semi-Passive Operation | Х |
| Cable Design | Fully Modular |

| 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 |
| Transformer | 3kVA x2 |

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Corsair CX550F RGB

| 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 | ✓ |

| 115V | |
|---|-------------|
| Average Efficiency | 87.144% |
| Efficiency With 10W (≤500W) or 2% (>500W) | 61.692 |
| Average Efficiency 5VSB | 78.614% |
| Standby Power Consumption (W) | 0.0555526 |
| Average PF | 0.985 |
| Avg Noise Output | 30.73 dB(A) |
| Efficiency Rating (ETA) | GOLD |
| Noise Rating (LAMBDA) | Standard++ |

| 230V | |
|-------------------------------|-------------|
| Average Efficiency | 89.172% |
| Average Efficiency 5VSB | 78.180% |
| Standby Power Consumption (W) | 0.0887277 |
| Average PF | 0.948 |
| Avg Noise Output | 30.43 dB(A) |
| Efficiency Rating (ETA) | GOLD |
| Noise Rating (LAMBDA) | Standard++ |

| POWER SPECIFICATIONS | | | | | | |
|----------------------|-------|------|----|-------|------|------|
| Rail | | 3.3V | 5V | 12V | 5VSB | -12V |
| May Payer | Amps | 20 | 20 | 45.8 | 3 | 0.3 |
| Max. Power | Watts | 120 | | 549.6 | 15 | 3.6 |
| Total Max. Power (W) | | 550 | | | | |

| HOLD-UP TIME & POWER OK SIGNAL (230V) | |
|---------------------------------------|------|
| Hold-Up Time (ms) | 16.4 |
| AC Loss to PWR_OK Hold Up Time (ms) | 13.1 |
| PWR_OK Inactive to DC Loss Delay (ms) | 3.3 |

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| CABLES AND CONNECTORS | | | | |
|---------------------------------------|-------------|-------------------------|----------|---------------------|
| Modular Cables | | | | |
| Description | Cable Count | Connector Count (Total) | Gauge | In Cable Capacitors |
| ATX connector 20+4 pin (610mm) | 1 | 1 | 18-20AWG | No |
| 4+4 pin EPS12V (650mm) | 1 | 1 | 18AWG | No |
| 6+2 pin PCle (600mm+150mm) | 1 | 2 | 16-18AWG | No |
| SATA (450mm+115mm+115mm+115mm) | 1 | 4 | 18AWG | No |
| SATA (500mm+100mm+100mm) | 1 | 3 | 18AWG | No |
| 4 pin Molex (450mm+100mm+100mm+100mm) | 1 | 4 | 18AWG | No |
| iCUE RGB cable (500mm) | 1 | 1 | 28AWG | No |
| Motherboard ARGB cable (300mm) | 1 | 1 | 28AWG | No |
| AC Power Cord (1380mm) - C13 coupler | 1 | 1 | 18AWG | - |

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| General Data | |
|------------------------|---|
| Manufacturer (OEM) | HEC. |
| PCB Type | Single Sided |
| Primary Side | |
| Transient Filter | 4x Y caps, 2x X caps, 1x CM chokes, 1x DM chokes, 1x MOV, 1x Discharge IC (CAP200DG) |
| Inrush Protection | NTC Thermistor SCK-037 |
| Bridge Rectifier(s) | 1x GBU10K (800V, 10A @ 100°C) |
| APFC MOSFETs | 2x Infineon IPA60R280P7S (650V, 8A @ 100°C, 0.280hm) |
| APFC Boost Diode | 1x Cree C3D04060A (600V, 4A @ 160°C) |
| Hold-up Cap(s) | 1x Hitachi (400V, 330uF, 2,000h @ 105°C, HU) |
| Main Switchers | 2x Champion GPT18N50DG (500V, 18A, 0.270hm) |
| APFC Controller | Champion CM6500UNX & Champion CM03X |
| IC Driver | MPS MP6924A |
| Resonant Controller | MPS HR1001C |
| Topology | Primary side: APFC, Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters |
| Secondary Side | _ |
| +12V MOSFETs | 4x Nexperia PSMN8R3-40YS (40V, 50A @ 100°C, 16mOhm @ 175°C) |
| 5V & 3.3V | DC-DC Converters: 8x Potens Semiconductor PDD3906 (30V, 51A @ 100°C, 6mOhm) PWM Controllers: ANPEC APW7073 |
| Filtering Capacitors | Electrolytic: $12x$ Teapo $(1-3,000h @ 105°C, SC)$, $2x$ Nippon Chemi-Con $(1-5,000h @ 105°C, KZE)$ Polymer: $16x$ Teapo |
| Supervisor IC | Weltrend WT7527 (OCP, OVP, UVP, SCP, PG) |
| Fan Model | Corsair NR120L (120mm, 12V, 0.22A, RGB, Rifle Bearing Fan) |
| 5VSB Circuit | - |
| Rectifier | 1x PS1060L SBR (60V, 10A) |
| Standby PWM Controller | Power Integrations TNY290PG |
| -12V | - |
| | |

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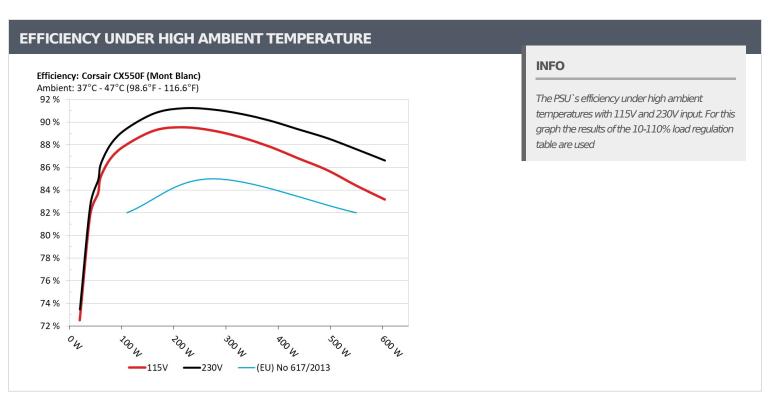
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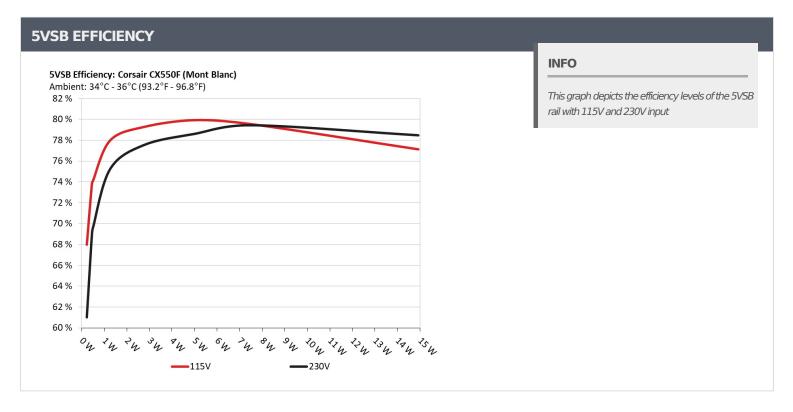
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| 5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC) | | | | | |
|---|--------|---------------|------------|-------------|--|
| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts | |
| 1 | 0.045A | 0.227 | 67.0640/ | 0.056 | |
| 1 | 5.048V | 0.334 | 67.964% | 115.16V | |
| 2 | 0.090A | 0.454 | 72.0210/ | 0.098 | |
| 2 | 5.046V | 0.615 | 73.821% | 115.16V | |
| 2 | 0.550A | 2.768 | 79.267% | 0.314 | |
| 3 | 5.034V | 3.492 | | 115.15V | |
| | 1.000A | 5.022 | 70.0170/ | 0.376 | |
| 4 | 5.022V | 6.284 | 79.917% | 115.16V | |
| _ | 1.500A | 7.514 | | 0.410 | |
| 5 | 5.010V | 9.448 | 79.530% | 115.16V | |
| 6 | 2.999A | 14.912 | | 0.456 | |
| 6 | 4.972V | 19.337 | 77.116% | 115.16V | |

| 5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC) | | | | |
|---|--------|---------------|------------|-------------|
| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
| 1 | 0.045A | 0.227 | 61,0220/ | 0.019 |
| | 5.048V | 0.372 | 61.022% | 230.31V |
| • | 0.090A | 0.454 | 68.997% | 0.033 |
| 2 | 5.046V | 0.658 | | 230.31V |
| | 0.550A | 2.768 | 77.535% | 0.154 |
| 3 | 5.034V | 3.570 | | 230.31V |
| 4 | 1.000A | 5.022 | 78.604% | 0.229 |
| 4 | 5.022V | 6.389 | | 230.31V |
| | 1.500A | 7.515 | 79.423% | 0.279 |
| 5 | 5.010V | 9.462 | | 230.30V |
| | 2.999A | 14.913 | | 0.351 |
| 6 | 4.972V | 19.007 | 78.461% | 230.31V |

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Corsair CX550F RGB

115V

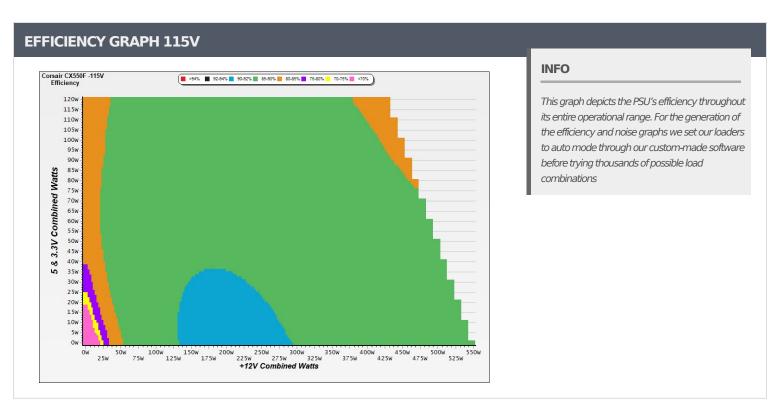
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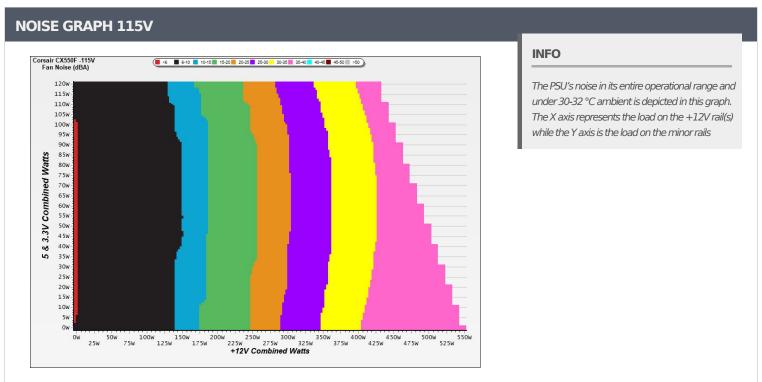
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Corsair CX550F RGB

| 10-1 | 10% LOA | D 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 |
| | 2.749A | 1.979A | 1.983A | 0.997A | 54.954 | 02.6050/ | 612 | 10.7 | 40.39°C | 0.976 |
| 1 | 12.132V | 5.053V | 3.329V | 5.016V | 65.660 | 83.695% | | | 45.53°C | 115.15\ |
| 2 | 6.535A | 2.978A | 2.981A | 1.199A | 110.012 | 88.042% | 622 | 11.0 | 40.59°C | 0.976 |
| 2 | 12.106V | 5.038V | 3.320V | 5.003V | 124.954 | | 632 | 11.9 | 46.49°C | 115.15\ |
| 2 | 10.670A | 3.482A | 3.488A | 1.403A | 165.003 | 00.0040/ | 674 | 16.0 | 41.53°C | 0.979 |
| 3 | 12.085V | 5.027V | 3.312V | 4.990V | 184.765 | 89.304% | 674 | 16.0 | 47.88°C | 115.15\ |
| 4 | 14.821A | 3.988A | 3.993A | 1.607A | 220.001 | — 00 E610/ 722 | 722 | 17.0 | 41.68°C | 0.985 |
| 4 | 12.064V | 5.016V | 3.305V | 4.978V | 245.644 | 89.561% | 733 | 17.0 | 48.64°C | 115.15\ |
| _ | 18.643A | 5.001A | 5.008A | 1.813A | 274.989 | 89.270% | 810 | 22.2 | 42.25°C | 0.989 |
| 5 | 12.041V | 5.000V | 3.296V | 4.963V | 308.043 | | | | 50.44°C | 115.15\ |
| _ | 22.480A | 6.021A | 6.026A | 2.000A | 329.879 | 88.670% | 921 | 25.7 | 43.06°C | 0.989 |
| 6 | 12.018V | 4.984V | 3.287V | 4.949V | 372.030 | | | | 52.24°C | 115.15\ |
| 7 | 26.346A | 7.048A | 7.051A | 2.229A | 385.052 | 07.0200/ | 1045 | 30.8 | 43.55°C | 0.989 |
| / | 11.992V | 4.967V | 3.277V | 4.934V | 438.378 | 87.836% | | | 53.65°C | 115.15\ |
| 8 | 30.211A | 8.003A | 8.081A | 2.439A | 439.550 | - oe oooo/ | 1217 | 36.2 | 43.72°C | 0.990 |
| 8 | 11.967V | 4.950V | 3.267V | 4.920V | 506.382 | 86.802% | | | 54.85°C | 115.14\ |
| 0 | 34.497A | 8.608A | 8.589A | 2.443A | 494.460 | — OF 77F0/ | 1410 | 30 F | 44.58°C | 0.991 |
| 9 | 11.942V | 4.937V | 3.260V | 4.912V | 576.461 | 85.775% | 1413 | 39.5 | 56.34°C | 115.14\ |
| 10 | 38.603A | 9.137A | 9.133A | 3.069A | 549.683 | 04.4150/ | 1667 | 42.0 | 45.88°C | 0.992 |
| 10 | 11.916V | 4.925V | 3.251V | 4.887V | 651.170 | 84.415% | 1667 | 43.9 | 58.08°C | 115.15\ |
| 11 | 43.332A | 9.150A | 9.150A | 3.073A | 604.871 | - 02 1770/ | 1006 | 46.8 | 46.62°C | 0.993 |
| 11 | 11.889V | 4.919V | 3.245V | 4.880V | 727.213 | 83.177% | 1896 | | 59.28°C | 115.14\ |
| Cl 1 | 0.100A | 14.001A | 13.999A | 0.000A | 116.082 | 02.0170/ | 1027 | 20.0 | 42.34°C | 0.973 |
| CL1 | 12.114V | 4.923V | 3.282V | 4.999V | 139.829 | 83.017% | 1027 | 29.9 | 50.02°C | 115.17\ |
| CL2 | 45.830A | 1.000A | 1.001A | 1.000A | 558.730 | 84.924% | 1600 | 44.6 | 45.15°C | 0.992 |
| CL2 | 11.902V | 5.011V | 3.281V | 4.965V | 657.918 | 04.924% | 1680 | 44.6 | 58.61°C | 115.14\ |

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Corsair CX550F RGB

| 20-80 | 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 | | | |
| - | 1.221A | 0.494A | 0.494A | 0.198A | 19.982 | 70 5010/ | F.46 | 6.5 | 0.927 | | | |
| 1 | 12.146V | 5.071V | 3.337V | 5.044V | 27.561 | 72.501% | 546 | | 115.15V | | | |
| 2 | 2.445A | 0.987A | 0.990A | 0.397A | 39.972 | 81.829% | F.C.7 | 8.0 | 0.968 | | | |
| 2 | 12.137V | 5.064V | 3.334V | 5.036V | 48.848 | | 567 | | 115.15V | | | |
| 2 | 3.674A | 1.482A | 1.486A | 0.597A | 60.003 | 05.1570/ | 500 | 8.9 | 0.980 | | | |
| 3 | 12.128V | 5.058V | 3.330V | 5.027V | 70.462 | 85.157% | 588 | | 115.15V | | | |
| | 4.898A | 1.980A | 1.986A | 0.797A | 79.955 | 86.854% | 610 | 10.4 | 0.981 | | | |
| 4 | 12.117V | 5.051V | 3.326V | 5.019V | 92.057 | | 610 | 10.4 | 115.15V | | | |

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|-----------|---------|---------|---------|---------|-----------|
| 10% Load | 14.10mV | 8.00mV | 7.50mV | 11.20mV | Pass |
| 20% Load | 13.70mV | 7.40mV | 10.40mV | 9.10mV | Pass |
| 30% Load | 13.50mV | 8.10mV | 8.50mV | 10.90mV | Pass |
| 40% Load | 14.40mV | 8.20mV | 9.00mV | 10.40mV | Pass |
| 50% Load | 18.30mV | 8.80mV | 9.40mV | 12.20mV | Pass |
| 60% Load | 18.40mV | 9.50mV | 10.40mV | 13.90mV | Pass |
| 70% Load | 22.80mV | 9.20mV | 12.40mV | 13.70mV | Pass |
| 80% Load | 24.30mV | 10.40mV | 14.20mV | 16.80mV | Pass |
| 90% Load | 29.70mV | 11.00mV | 14.20mV | 17.40mV | Pass |
| 100% Load | 45.80mV | 14.00mV | 16.80mV | 21.10mV | Pass |

17.10mV

17.50mV

12.70mV

21.70mV

7.40mV

15.70mV

14.40mV

10.90mV

11.70mV

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110% Load

Crossload1

Crossload2

RIPPLE MEASUREMENTS 115V

52.30mV

19.00mV

44.20mV

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Pass

Pass

Pass

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Corsair CX550F RGB

230V

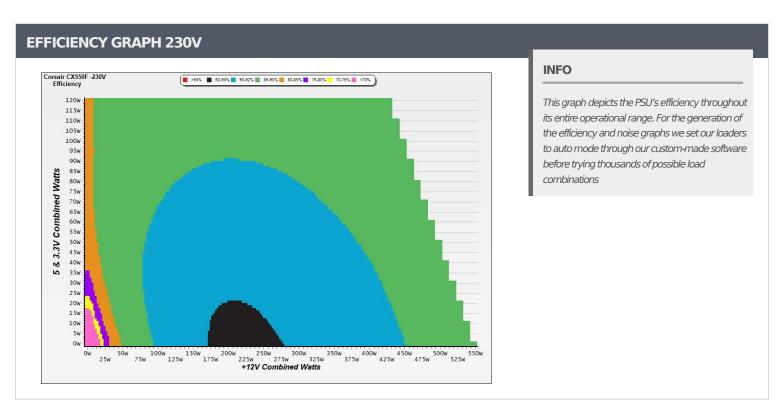
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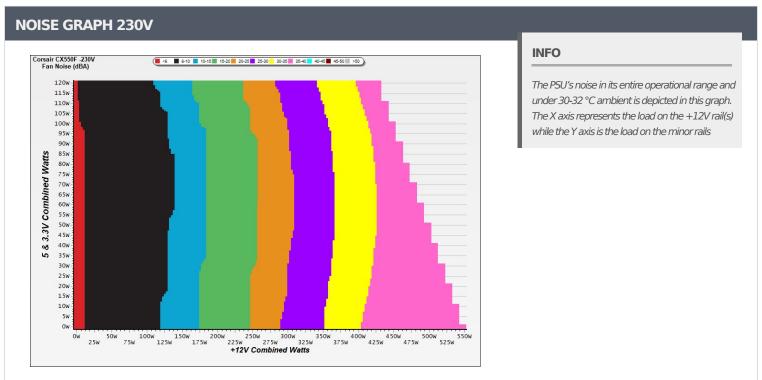
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Corsair CX550F RGB

| 10-1 | 10% LOA | AD 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 |
| - | 2.749A | 1.980A | 1.983A | 0.997A | 54.955 | 04.0040/ | 615 | | 40.00°C | 0.834 |
| 1 | 12.133V | 5.052V | 3.328V | 5.015V | 64.734 | 84.894% | | 11.0 | 44.28°C | 230.31\ |
| 2 | 6.535A | 2.978A | 2.983A | 1.200A | 110.018 | 89.459% | GEO. | 12.6 | 40.95°C | 0.901 |
| 2 | 12.107V | 5.036V | 3.319V | 5.001V | 122.981 | | 650 | 12.6 | 45.97°C | 230.31\ |
| 2 | 10.670A | 3.483A | 3.488A | 1.403A | 165.010 | 90.834% | 600 | 15 4 | 41.49°C | 0.934 |
| 3 | 12.086V | 5.025V | 3.312V | 4.988V | 181.662 | | 690 | 15.4 | 47.31°C | 230.31\ |
| 4 | 14.820A | 3.988A | 3.996A | 1.608A | 220.007 | 01.2510/ | 720 | 16.0 | 41.50°C | 0.956 |
| 4 | 12.065V | 5.015V | 3.304V | 4.976V | 241.101 | 91.251% | 730 | 16.9 | 48.55°C | 230.31\ |
| _ | 18.642A | 5.003A | 5.008A | 1.814A | 274.998 | 91.130% | 807 | 22.0 | 42.39°C | 0.965 |
| 5 | 12.042V | 4.999V | 3.295V | 4.961V | 301.765 | | | | 50.44°C | 230.31\ |
| | 22.481A | 6.023A | 6.028A | 2.000A | 329.886 | 90.736% | 919 | 25.6 | 42.57°C | 0.966 |
| 6 | 12.018V | 4.982V | 3.286V | 4.947V | 363.565 | | | | 51.76°C | 230.31\ |
| 7 | 26.346A | 7.051A | 7.054A | 2.230A | 385.063 | 00.1200/ | 1044 | 30.8 | 43.79°C | 0.968 |
| / | 11.992V | 4.966V | 3.276V | 4.932V | 427.187 | 90.139% | | | 53.73°C | 230.31\ |
| 8 | 30.217A | 8.000A | 8.082A | 2.440A | 439.572 | 89.369% | 1210 | 35.2 | 43.93°C | 0.970 |
| · | 11.966V | 4.950V | 3.266V | 4.918V | 491.861 | 09.30970 | 1210 | | 54.00°C | 230.32\ |
| 9 | 34.505A | 8.609A | 8.593A | 2.444A | 494.485 | 88.598% | 1411 | 39.5 | 44.35°C | 0.971 |
| <i></i> | 11.940V | 4.937V | 3.258V | 4.909V | 558.119 | 00.39070 | 1411 | | 55.32°C | 230.32\ |
| 10 | 38.613A | 9.140A | 9.137A | 3.071A | 549.699 | 87.629% | 1626 | 12.1 | 45.49°C | 0.973 |
| 10 | 11.913V | 4.924V | 3.250V | 4.885V | 627.306 | 07.029% | 1626 | 43.4 | 57.29°C | 230.32\ |
| 11 | 43.345A | 9.152A | 9.155A | 3.075A | 604.898 | 86.628% | 1879 | 46.2 | 46.54°C | 0.975 |
| 11 | 11.886V | 4.917V | 3.244V | 4.878V | 698.272 | 00.02070 | 10/9 | 46.2 | 59.31°C | 230.33\ |
| CL1 | 0.100A | 14.001A | 13.999A | 0.000A | 116.068 | — 04 F100/ | 1000 | 29.2 | 42.87°C | 0.899 |
| CLI | 12.112V | 4.922V | 3.282V | 4.997V | 137.327 | 84.519% | 1009 | | 51.08°C | 230.33\ |
| CL2 | 45.829A | 1.000A | 0.999A | 1.000A | 558.614 | 88.227% | 1624 | 43.4 | 45.43°C | 0.974 |
| UZ | 11.900V | 5.010V | 3.280V | 4.963V | 633.156 | 00.22170 | 1024 | | 57.51°C | 230.33\ |

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Corsair CX550F RGB

| 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 | | |
| | 1.221A | 0.494A | 0.494A | 0.198A | 19.985 | 72.4600/ | F0C | 8.8 | 0.602 | | |
| 1 | 12.148V | 5.071V | 3.337V | 5.043V | 27.202 | 73.469% | 586 | | 230.31V | | |
| 2 | 2.445A | 0.987A | 0.989A | 0.397A | 39.974 | 82.726% | FOC | 8.8 | 0.773 | | |
| 2 | 12.139V | 5.064V | 3.333V | 5.035V | 48.321 | | 586 | | 230.30V | | |
| 2 | 3.673A | 1.484A | 1.486A | 0.597A | 60.005 | 00.000/ | F07 | 8.9 | 0.846 | | |
| 3 | 12.130V | 5.057V | 3.329V | 5.026V | 69.516 | 86.318% | 587 | | 230.30V | | |
| 4 | 4.897A | 1.981A | 1.987A | 0.797A | 79.956 | | 600 | 10.3 | 0.881 | | |
| 4 | 12.119V | 5.050V | 3.325V | 5.017V | 90.732 | 88.123% | 608 | | 230.31V | | |

| RIPPLE MEASURE | EMENTS 230V | | | | | |
|----------------|-------------|---------|---------|---------|-----------|--|
| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail | |
| 10% Load | 16.00mV | 7.30mV | 7.80mV | 11.60mV | Pass | |
| 20% Load | 15.50mV | 7.60mV | 10.20mV | 9.40mV | Pass | |
| 30% Load | 15.50mV | 7.80mV | 8.70mV | 11.60mV | Pass | |
| 40% Load | 16.80mV | 8.60mV | 9.10mV | 10.40mV | Pass | |
| 50% Load | 18.60mV | 8.40mV | 9.50mV | 12.10mV | Pass | |
| 60% Load | 20.10mV | 8.80mV | 10.80mV | 13.10mV | Pass | |
| 70% Load | 21.30mV | 9.10mV | 11.70mV | 13.70mV | Pass | |
| 80% Load | 23.40mV | 9.90mV | 14.20mV | 16.80mV | Pass | |
| 90% Load | 29.00mV | 10.70mV | 14.50mV | 17.40mV | Pass | |
| 100% Load | 49.80mV | 13.40mV | 16.20mV | 21.90mV | Pass | |
| 110% Load | 54.80mV | 13.30mV | 16.60mV | 22.10mV | Pass | |
| Crossload1 | 20.30mV | 11.10mV | 17.70mV | 7.50mV | Pass | |
| Crossload2 | 47.70mV | 12.00mV | 12.90mV | 15.30mV | Pass | |

All data and graphs included in this test report can be used by any individual on the following conditions:

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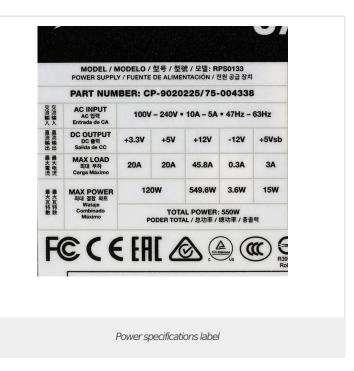
> It should be mentioned that the test results are provided by Cybenetics

> The link to the original test results document should be provided in any case



Anex Corsair CX550F RGB









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