# Antec NE1000 Platinum ATX3.1

Serial Number -

Lab ID AN10003199

Certification ID 263199

Test Result Report ID: 26PS3199A

Certificate Issue Date: Mar 18, 2026

Scheme: ETA-EMI PSU

115V




230V




Scheme: LAMBDA PSU

115V




230V







Outside Validation Scope



# 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 | Antec |
| Model | NE1000 Platinum ATX3.1 |
| OEM/ODM | Helly |
| Serial Number | - |
| Product Specifications | |
| Manufacturer-Provided Information | |
| Rated Voltage (Vrms) | 100-240 |
| Rated Current (Arms) | 6-12 |

| | |
|---|---|
| Rated Frequency (Hz) | 50-60 |
| Rated Power (W) | 1000 |
| Operating Temperature (Continuous Full Load) (°C) | 0 - 40 |
| Type | ATX12V |
| Cable Design | Fully Modular |
| Warranty | 10 years |
| Cybenetics Measurements | |
| Dimensions (W x H x D) | 150 x 85 x 140mm |
| Weight | 1.57 kg (3.46 lb) |
| Cooling | 120mm Fluid Dynamic Bearing Fan (HA1225M12F-Z) |
| Semi-Passive Operation | ✓ |
| Cybenetics Testing Information | |
| Lab ID | AN10003199 |
| Date of receipt | Feb 2, 2026 |
| Testing Date | Mar 10, 2026 |
| Report Issued Date | Mar 18, 2026 |
| Engineer Name | Ioannis Kalyviotis |
| Authorized By the Laboratory Technical Manager | Aristeidis Bitziopoulos |
| Signature |  |

## Cables and Connectors(Non-accredited measurements)

| Modular Cables | | | | |
|---|---|---|---|---|
| **Description** | **Cable Count** | **Connector Count (Total)** | **Gauge** | **Cable Type** |
| ATX connector 20+4 pin (600mm) | 1 | 1 | 18-22AWG | Tinned Copper |
| 4+4 pin EPS12V (675mm) | 2 | 2 | 18AWG | Tinned Copper |
| 6+2 pin PCIe (600mm) | 3 | 3 | 18AWG | Tinned Copper |
| 12+4 pin PCIe (650mm) (600W) | 1 | 1 | 16-24AWG | Tinned Copper |
| SATA (460mm+120mm+120mm) / 4-pin Molex (+120mm) | 3 | 9 / 3 | 18AWG | Copper |

## Protection Features(Manufacturer)

| | |
|---|---|
| Over Power Protection | ✓ |
| Over Current (+12V) Protection | ✓ |
| Over Temperature Protection | ✓ |
| Short Circuit Protection | ✓ |
| Surge Protection | ✓ |
| Inrush Current Protection | ✓ |
| Fan Failure Protection | ✗ |

## Power Specifications

| Rail | | 3.3V | 5V | 12V | 5VSB | -12V |
|---|---|---|---|---|---|---|
| Max. Power | Amps | 20 | 20 | 83 | 3 | 0.3 |
| | Watts | 120 | | 996 | 15 | 3.6 |
| Total Max. Power (W) | | 1000 | | | | |

## Parts Description

| | |
|---|---|
| **General Data** | |
| Manufacturer (OEM) | Helly |
| PCB Type | Double-Sided |
| **Primary Side** | |
| Transient Filter | 2x Y caps, 2x X caps, 2x CM chokes, 1x MOV |
| Inrush Protection | NTC Thermistor MF73T-1 20/7 (20 Ohm @ 25°C) & Relay |
| Bridge Rectifier | GBU15J-U1 (600V 15A @ 150°C) |
| APFC MOSFETs | 2x Oriental Semiconductor OSG65R070FT3 (650V, 29.7A @ 100°C, Rds(on): 70mOhm) |
| APFC Boost Diode | Silicon Carbide Power Schottky Barrier Diode SDS065J010C3 (650V. 10A @ 155oC) |
| Bulk Cap(s) | 1x Rubycon (400V, 820uF 2000 Hrs @ 105°C MXE ) |
| Main Switchers | 2x Oriental Semiconductor OSG60R099FT3 (600V, 30A @ 150°C, Rds(on): 0.099 Ohm) |
| APFC Controller | Champion CM6500UNX |
| Resonant Controller | Champion CM6901T6X |

| | |
|---|---|
| Topology | Primary Side: APFC, Half-Bridge & LLC Resonant Converter<br>Secondary Side: [12V] Synchronous Rectification & [Minor Rails] DC-DC Converters |
| **Secondary Side** | |
| +12V MOSFETs | 6x HUAYI Microelectronics HYG009N04 (40V, 200A @ 175°C, Rds(on): 0.96mOhm) |
| 5V & 3.3V | DC-DC Converters: 2x FETek Technology KS3214T , (30V, 9A @ 150°C, Rds(on): 12mOhm)<br>2x FETek Technology 2x KS3212T<br>PWM Controller(s): 2x Anpec Electronics APW7073 |
| Filtering Capacitors | Electrolytic:<br>3x Nippon Chemi-Con (2200 µF, 16 V @ 105°C, W)<br>2x Nippon Chemi-Con (3300 µF, 16 V @ 105°C, W)<br>2x Rubycon (220 µF, 35 V, 4-10,000 Hrs @ 105°C, YXF )<br>1x Rubycon (220 µF, 16 V, 4-10,000 Hrs @ 105°C, YXJ )<br>1x Rubycon (100 µF, 25 V, 4-10,000 Hrs @ 105°C, YXJ )<br>Polymer:<br>8x Beryl (1500 µF, 16 V, 20000 hours @ 105°C),<br>17x Topmay |
| Supervisor IC | Weltrend WT7527RA (OVP, UVP, OCP, VX, PGO, FPOB, PSONB) |
| Fan Power Switch | Power Transistor D882 |
| Fan Model | Hong Hua HA1225M12F-Z (120mm, 12V, 0.45A, 2050 RPM, Fluid Dynamic Bearing) |
| **5VSB Circuit** | |
| Rectifier | Dongke Semiconductor DK5V60R20S (60V, 20mOhm) |
| Standby PWM Controller | Excelliance MOS Corp. EM8569C |

# 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 | ✓ |
| ATX v3.1 PSU Power Excursion | ✓ |

| | |
|---|---|
| Conducted Emissions EN 55032 & CISPR 32 | Passed |

## Performance Summary

### 115V

| | |
|---|---|
| Accredited | |
| Average Efficiency (>1450 load combinations) | 90.562% |
| Average Noise Output (>1450 Load Combinations) | 31.21dBA |
| Average PF (>1450 Load Combinations) | 0.993 |
| Efficiency With 10W (≤500W) or 2% (>500W) Load | 73.599% |
| Standby Power Consumption | 0.0535W |
| Non-Accredited | |
| 12V Ripple (Full Load) | 33.77mV |
| 5V Ripple (Full Load) | 24.32mV |
| 3.3V Ripple (Full Load) | 23.53mV |
| 5VSB Ripple (Full Load) | 21.59mV |
| 12V Load Regulation | 0.43% |
| 5V Load Regulation | 0.56% |
| 3.3V Load Regulation | 0.73% |
| 5VSB Load Regulation | 2.68% |
| Inrush Current | 8.010A |

### 230V

| | |
|---|---|
| Accredited | |
| Average Efficiency (>1450 load combinations) | 92.525% |
| Average Noise Output (>1450 Load Combinations) | 30.44dBA |
| Average PF (>1450 Load Combinations) | 0.973 |
| Efficiency With 10W (≤500W) or 2% (>500W) Load | 73.307% |
| Standby Power Consumption | 0.0846W |
| Non-Accredited | |
| 12V Ripple (Full Load) | 33.36mV |

| | | |
|---|---|---|
| 5V Ripple (Full Load) | | 22.48mV |
| 3.3V Ripple (Full Load) | | 23.63mV |
| 5VSB Ripple (Full Load) | | 20.97mV |
| 12V Load Regulation | | 0.42% |
| 5V Load Regulation | | 0.62% |
| 3.3V Load Regulation | | 0.70% |
| 5VSB Load Regulation | | 2.68% |
| Inrush Current | | 17.110A |
| 12V Transient Response (200%) | | 11.50V |
| 5V Transient Response (200%) | | 4.886V |
| 3.3V Transient Response (200%) | | 3.174V |
| 5VSB Transient Response (200%) | | 4.892V |
| Hold-Up Time & PWR_OK Signal | | 26.50ms |
| AC Loss to PWR_OK Hold Up Time | | 23.40ms |
| PWR_OK Inactive to DC Loss Delay | | 3.10ms |
| PSU Timings: T1 (20% / 100%) | 60.0ms | 60.0ms |
| PSU Timings: T3 (20% / 100%) | 125.0ms | 121.0ms |
| 12V OCP (26.7°C / 43.6°C) | 102.20A (123.13%), 12.087V | 98.60A (118.80%), 12.098V |
| 5V OCP (26.7°C / 43.6°C) | 28.6A (143.00%), 4.995V | 29A (145.00%), 4.992V |
| 3.3V OCP (26.7°C / 43.6°C) | 28.3A (141.50%), 3.318V | 28.4A (142.00%), 3.321V |
| 5VSB OCP (26.7°C / 43.6°C) | 4.1A (136.67%), 4.992V | 4.1A (136.67%), 4.991V |
| OPP (29.78°C / 42.53°C) | 132.61% | 128.71% |

## Hold-Up Time & PWR_OK Signal

| | |
|---|---|
| Hold-Up Time (ms) | 26.5 |
| AC Loss to PWR_OK Hold Up Time (ms) | 23.4 |
| PWR_OK Inactive to DC Loss Delay (ms) | 3.1 |

# Vampire Power

## Tables

### 115V

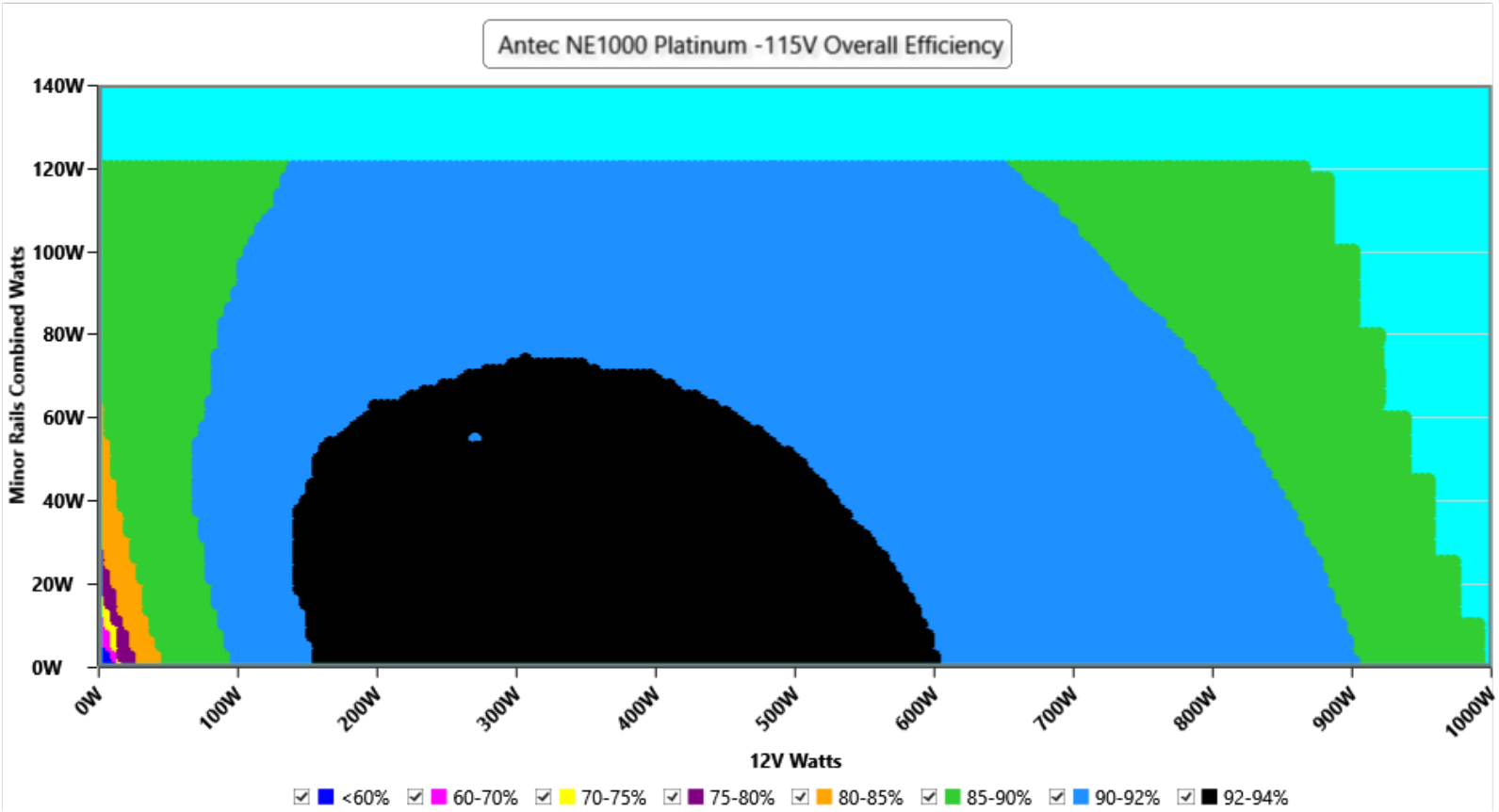
| Detailed Results | | | | | | |
|---|---|---|---|---|---|---|
| | Average | Min | Limit Min | Max | Limit Max | Result |
| Mains Voltage RMS: | 115.03 V | 115.01 V | 113.85 V | 115.06 V | 116.15 V | PASS |
| Mains Frequency: | 60.00 Hz | 59.99 Hz | 59.40 Hz | 60.01 Hz | 60.60 Hz | PASS |
| Mains Voltage CF: | 1.416 | 1.415 | 1.340 | 1.416 | 1.490 | PASS |
| Mains Voltage THD: | 0.13 % | 0.11 % | N/A | 0.16 % | 2.00 % | PASS |
| Real Power: | 0.053 W | 0.032 W | N/A | 0.077 W | N/A | N/A |
| Apparent Power: | 6.654 W | 6.632 W | N/A | 6.678 W | N/A | N/A |
| Power Factor: | 0.006 | N/A | N/A | N/A | N/A | N/A |

### 230V

| Detailed Results | | | | | | |
|---|---|---|---|---|---|---|
| | Average | Min | Limit Min | Max | Limit Max | Result |
| Mains Voltage RMS: | 230.05 V | 230.02 V | 227.70 V | 230.11 V | 232.30 V | PASS |
| Mains Frequency: | 50.00 Hz | 50.00 Hz | 49.50 Hz | 50.00 Hz | 50.50 Hz | PASS |
| Mains Voltage CF: | 1.415 | 1.415 | 1.340 | 1.416 | 1.490 | PASS |
| Mains Voltage THD: | 0.14 % | 0.13 % | N/A | 0.16 % | 2.00 % | PASS |
| Real Power: | 0.085 W | 0.043 W | N/A | 0.160 W | N/A | N/A |
| Apparent Power: | 21.240 W | 21.190 W | N/A | 21.294 W | N/A | N/A |
| Power Factor: | 0.002 | N/A | N/A | N/A | N/A | N/A |

## Efficiency Graph

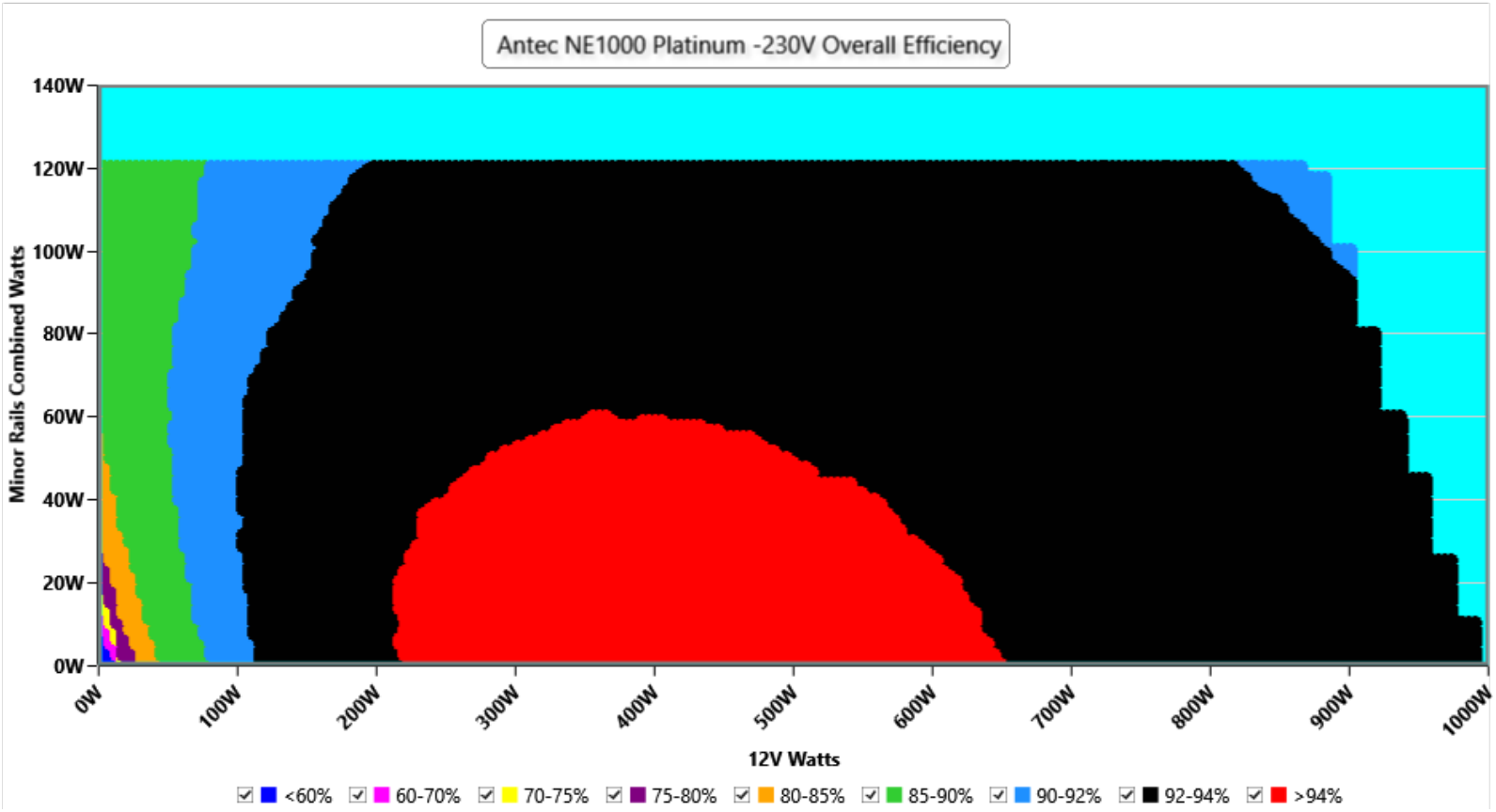
**115V**




**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

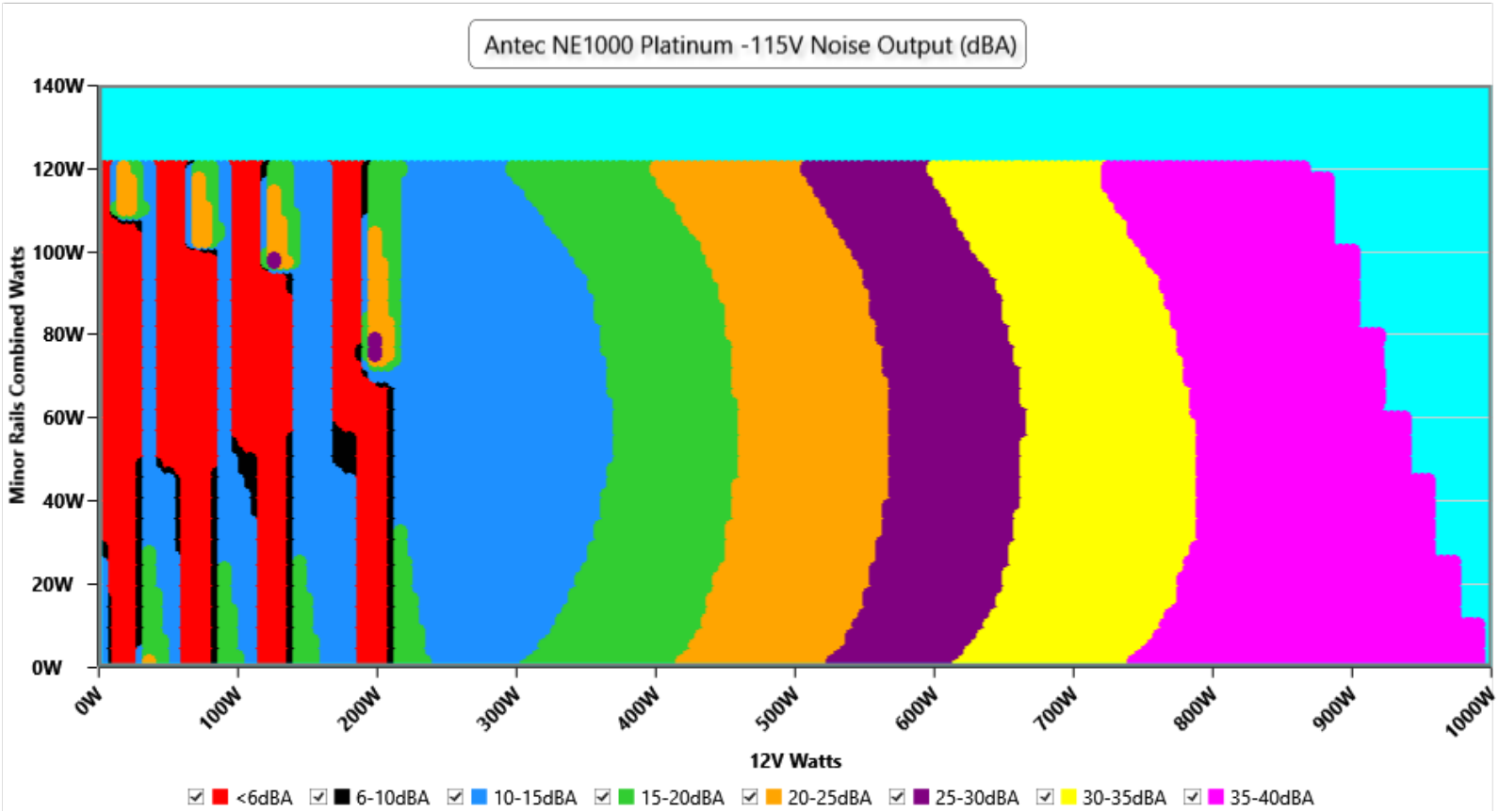



### INFO

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

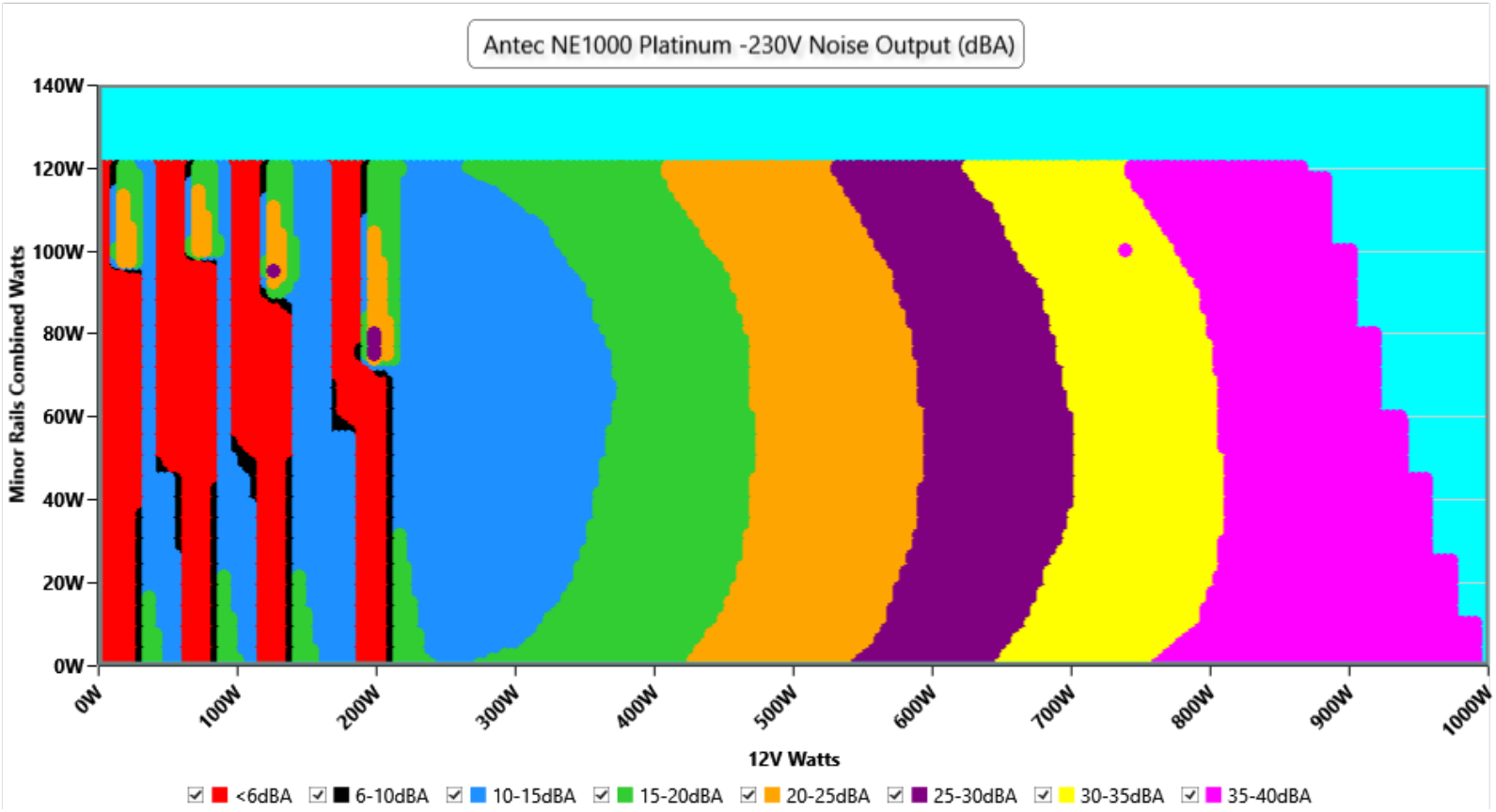
**115V**




**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

## Noise under high ambient temperature (indicative)

### 115V

| Load | Normal ambient<br>fan · noise · intake | High ambient<br>fan · noise · intake | Noise change |
|---|---|---|---|
| 10% | 0 RPM · <6.0 dB(A) · 30.6 °C | 0 RPM · <6.0 dB(A) · 42.9 °C | fan off in both |
| 20% | 0 RPM · <6.0 dB(A) · 30.9 °C | 857 RPM · 22.5 dB(A) · 40.6 °C | fan starts (<6.0 → 22.5) |
| 50% | 733 RPM · 18.2 dB(A) · 30.4 °C | 1079 RPM · 29.7 dB(A) · 42.1 °C | **+11.5 dB(A)** |
| 100% | 1396 RPM · 36.9 dB(A) · 30.8 °C | 1800 RPM · 43.3 dB(A) · 45.0 °C | **+6.4 dB(A)** |

### 230V

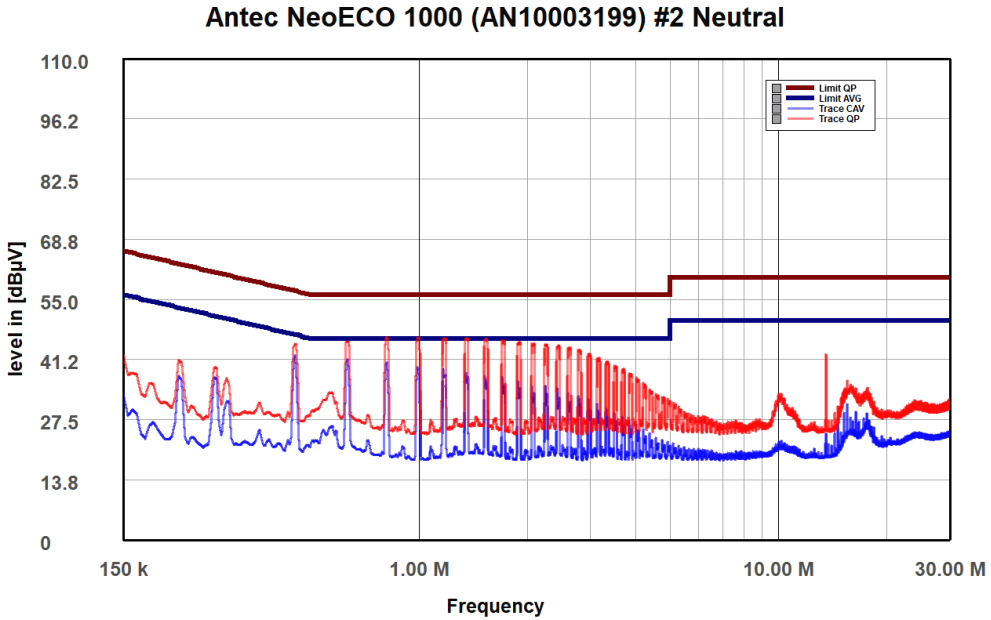
| Load | Normal ambient<br>fan · noise · intake | High ambient<br>fan · noise · intake | Noise change |
|---|---|---|---|
| 10% | 0 RPM · <6.0 dB(A) · 30.8 °C | 768 RPM · 18.9 dB(A) · 40.2 °C | fan starts (<6.0 → 18.9) |
| 20% | 0 RPM · <6.0 dB(A) · 35.1 °C | 779 RPM · 19.3 dB(A) · 40.7 °C | fan starts (<6.0 → 19.3) |
| 50% | 830 RPM · 21.4 dB(A) · 30.9 °C | 997 RPM · 27.3 dB(A) · 42.1 °C | **+5.9 dB(A)** |
| 100% | 1435 RPM · 37.8 dB(A) · 30.5 °C | 1791 RPM · 43.2 dB(A) · 45.1 °C | **+5.4 dB(A)** |

### INFO

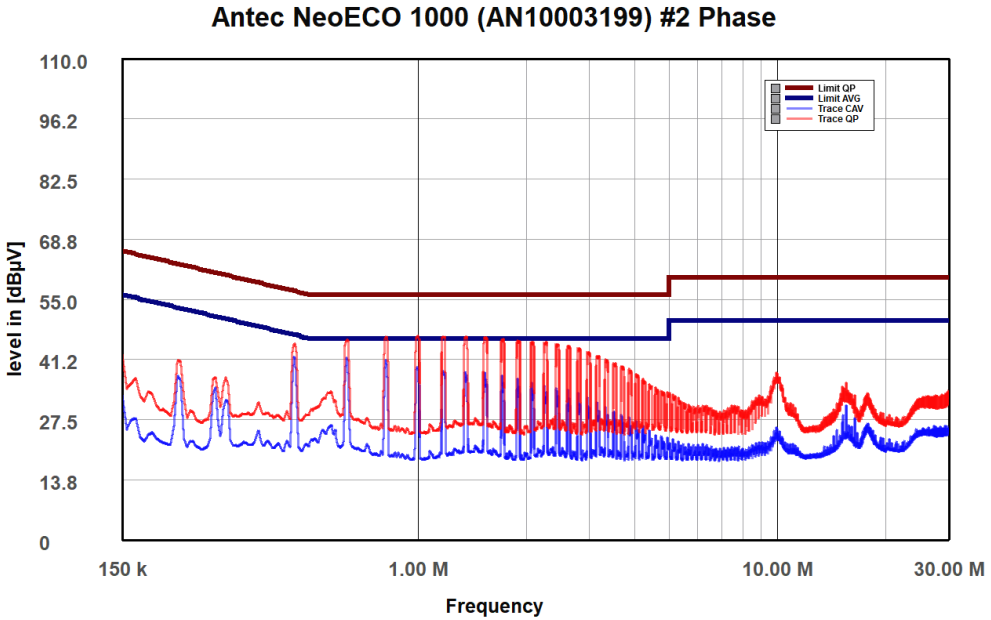
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative of how the fan behaves when it is hot. "<6.0" is the floor of our sound meter, with the fan stopped; with the fan stopped, the intake sensor can read higher than the chamber air.

*Informational. Not part of the ETA or LAMBDA rating.*

## Conducted Emissions EN 55032 & CISPR 32



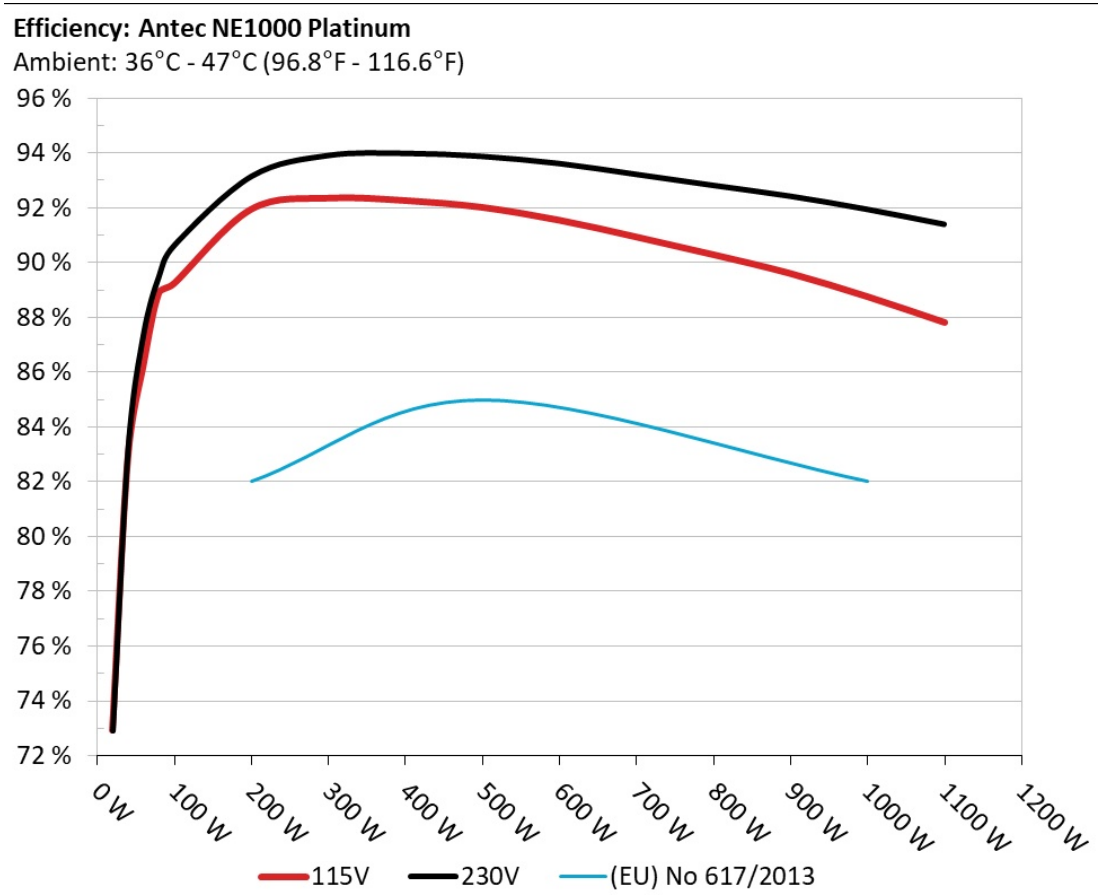

NEUTRAL




PHASE

## Indicative Performance

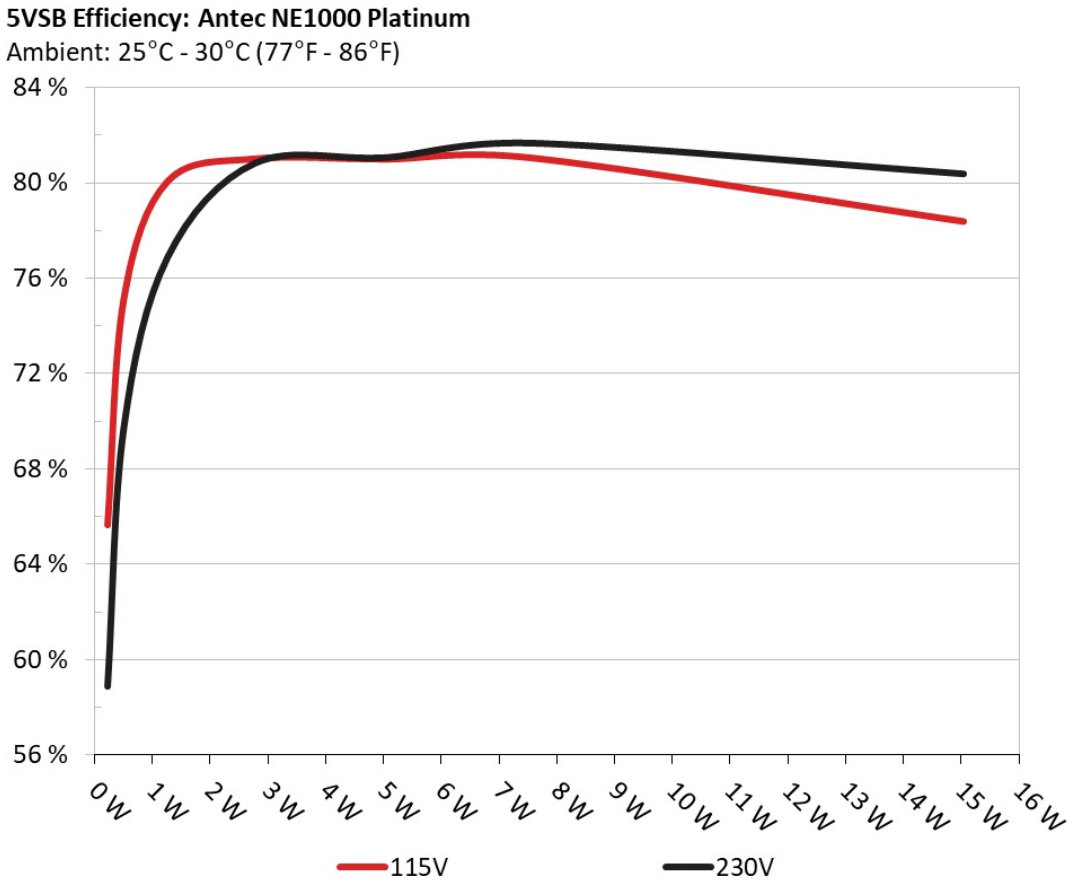
### Efficiency under high ambient temperature




**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** | 0.228W | 65.662% | 0.056 |
| | 5.07V | 0.348W | | 115.04V |
| **2** | **0.09A** | 0.456W | 74.026% | 0.096 |
| | 5.069V | 0.617W | | 115.03V |
| **3** | **0.55A** | 2.783W | 81.035% | 0.325 |
| | 5.061V | 3.435W | | 115.04V |
| **4** | **1A** | 5.052W | 81.014% | 0.423 |
| | 5.052V | 6.236W | | 115.04V |
| **5** | **1.5A** | 7.565W | 81.071% | 0.473 |
| | 5.043V | 9.332W | | 115.03V |
| **6** | **3A** | 15.044W | 78.402% | 0.56 |
| | 5.015V | 19.188W | | 115.03V |

### 230V

| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
|---|---|---|---|---|
| **1** | **0.045A** | 0.228W | 58.881% | 0.019 |
| | 5.069V | 0.388W | | 230V |
| **2** | **0.09A** | 0.456W | 68.564% | 0.033 |
| | 5.07V | 0.666W | | 229.99V |
| **3** | **0.55A** | 2.783W | 80.855% | 0.151 |
| | 5.061V | 3.443W | | 229.99V |
| **4** | **1A** | 5.053W | 81.082% | 0.232 |
| | 5.052V | 6.232W | | 230V |
| **5** | **1.5A** | 7.565W | 81.692% | 0.297 |
| | 5.043V | 9.261W | | 229.99V |
| **6** | **3A** | 15.042W | 80.401% | 0.409 |
| | 5.014V | 18.709W | | 229.99V |

## Protection Features

| | |
|---|---|
| OCP (Normal @ 26.7°C) | 12V: 102.20A (123.13%), 12.087V<br>5V: 28.6A (143.00%), 4.995V<br>3.3V: 28.3A (141.50%), 3.318V<br>5VSB: 4.1A (136.67%), 4.992V |
| OCP (Hot @ 43.6°C) | 12V: 98.60A (118.80%), 12.098V<br>5V: 29A (145.00%), 4.992V<br>3.3V: 28.4A (142.00%), 3.321V<br>5VSB: 4.1A (136.67%), 4.991V |
| OPP (Normal @ 29.8°C) | 1326.07W (132.61%) |
| OPP (Hot @ 42.5°C) | 1287.06W (128.71%) |
| OTP | ✓ (102°C @ 12V Heatsink) |
| SCP | 12V to Earth: ✓<br>5V to Earth: ✓<br>3.3V to Earth: ✓<br>5VSB to Earth: ✓<br>-12V to Earth: ✓ |
| PWR_OK | Proper Operation |
| UVP (Full Load @ 90V) | ✓ |
| UVP (No Damage @ 80V) | ✓ |
| Conducted Emissions EN55032 & CISPR 32 | ✓ |
| NLO | ✓ |
| Fan Failure Protection | ✗ |
| SIP | Surge: MOV<br>Inrush: NTC & Bypass Relay |

## 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%** | **6.464A** | **1.995A** | **1.985A** | **0.991A** | 99.997 | 89.222% | 0 | <6.0 | 42.9°C | 0.979 |
| | 12.128V | 5.013V | 3.325V | 5.044V | 112.077 | | | | 40.15°C | 115.01V |
| **20%** | **13.944A** | **2.996A** | **2.98A** | **1.192A** | 199.948 | 91.926% | 857 | 22.5 | 40.61°C | 0.991 |
| | 12.123V | 5.007V | 3.322V | 5.032V | 217.509 | | | | 43.89°C | 114.98V |
| **30%** | **21.782A** | **3.497A** | **3.479A** | **1.394A** | 300.002 | 92.334% | 907 | 24.2 | 41.44°C | 0.991 |
| | 12.118V | 5.004V | 3.32V | 5.021V | 324.907 | | | | 45.12°C | 114.95V |
| **40%** | **29.583A** | **3.999A** | **3.979A** | **1.597A** | 399.538 | 92.247% | 974 | 26.6 | 41.63°C | 0.993 |
| | 12.113V | 5.001V | 3.318V | 5.01V | 433.119 | | | | 46.16°C | 114.91V |
| **50%** | **37.065A** | **5.002A** | **4.978A** | **1.801A** | 499.258 | 92% | 1079 | 29.7 | 42.12°C | 0.995 |
| | 12.107V | 4.998V | 3.315V | 4.998V | 542.671 | | | | 46.94°C | 114.87V |
| **60%** | **44.618A** | **6.006A** | **5.978A** | **2A** | 599.756 | 91.529% | 1279 | 34.8 | 42.74°C | 0.996 |
| | 12.102V | 4.995V | 3.313V | 4.986V | 655.262 | | | | 48.67°C | 114.83V |
| **70%** | **52.114A** | **7.012A** | **6.98A** | **2.212A** | 699.528 | 90.919% | 1440 | 37.9 | 43.46°C | 0.997 |
| | 12.097V | 4.992V | 3.31V | 4.974V | 769.395 | | | | 50.66°C | 114.8V |
| **80%** | **59.682A** | **8.016A** | **7.982A** | **2.317A** | 799.531 | 90.273% | 1558 | 40 | 43.99°C | 0.997 |
| | 12.091V | 4.989V | 3.308V | 4.964V | 885.687 | | | | 52.52°C | 114.76V |
| **90%** | **67.588A** | **8.521A** | **8.471A** | **2.422A** | 899.33 | 89.589% | 1726 | 42.2 | 44.53°C | 0.998 |
| | 12.086V | 4.987V | 3.305V | 4.954V | 1003.842 | | | | 55.33°C | 114.71V |
| **100%** | **75.294A** | **9.025A** | **8.992A** | **3.04A** | 999.339 | 88.744% | 1800 | 43.3 | 45.01°C | 0.998 |
| | 12.082V | 4.985V | 3.303V | 4.934V | 1126.088 | | | | 58.93°C | 114.67V |
| **110%** | **82.935A** | **10.032A** | **10.089A** | **3.046A** | 1099.94 | 87.799% | 1809 | 43.3 | 46.49°C | 0.998 |
| | 12.077V | 4.983V | 3.301V | 4.924V | 1252.796 | | | | 63.8°C | 114.63V |
| **CL1** | **0.116A** | **14.448A** | **14.375A** | **0A** | 121.296 | 84.877% | 1267 | 34.5 | 40.94°C | 0.985 |
| | 12.134V | 4.996V | 3.319V | 5.044V | 142.908 | | | | 49.16°C | 115V |

| Test | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | Temps (In/Out) | PF/AC Volts |
|---|---|---|---|---|---|---|---|---|---|---|
| **CL2** | **0.115A** | **19.992A** | **0A** | **0A** | 101.349 | 83.781% | 1110 | 30.5 | 40.84°C | 0.98 |
| | 12.133V | 5V | 3.319V | 5.053V | 120.969 | | | | 46.85°C | 115V |
| **CL3** | **0.114A** | **0A** | **19.851A** | **0A** | 67.399 | 79.692% | 1076 | 29.7 | 40.76°C | 0.97 |
| | 12.132V | 5.008V | 3.325V | 5.053V | 84.574 | | | | 44.47°C | 115.01V |
| **CL4** | **82.780A** | **0A** | **0A** | **0A** | 999.917 | 89.428% | 1791 | 43.2 | 45.5°C | 0.998 |
| | 12.079V | 4.995V | 3.308V | 5.005V | 1118.123 | | | | 54.94°C | 114.68V |

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%** | **6.464A** | **1.996A** | **1.986A** | **0.991A** | 100.002 | 90.273% | 768 | 18.9 | 40.16°C | 0.909 |
| | 12.128V | 5.009V | 3.324V | 5.044V | 110.779 | | | | 42.09°C | 229.99V |
| **20%** | **13.944A** | **2.997A** | **2.98A** | **1.192A** | 199.954 | 93.165% | 779 | 19.3 | 40.69°C | 0.961 |
| | 12.123V | 5.005V | 3.322V | 5.032V | 214.624 | | | | 42.43°C | 229.97V |
| **30%** | **21.784A** | **3.498A** | **3.48A** | **1.394A** | 300.011 | 93.929% | 819 | 21 | 41.49°C | 0.975 |
| | 12.117V | 5.003V | 3.319V | 5.021V | 319.401 | | | | 42.71°C | 229.95V |
| **40%** | **29.589A** | **4A** | **3.98A** | **1.597A** | 399.564 | 94.005% | 891 | 23.7 | 41.77°C | 0.981 |
| | 12.111V | 5V | 3.317V | 5.01V | 425.047 | | | | 43.01°C | 229.93V |
| **50%** | **37.071A** | **5.004A** | **4.978A** | **1.801A** | 499.28 | 93.895% | 997 | 27.3 | 42.11°C | 0.985 |
| | 12.106V | 4.996V | 3.315V | 4.998V | 531.743 | | | | 43.56°C | 229.92V |
| **60%** | **44.627A** | **6.009A** | **5.978A** | **2A** | 599.783 | 93.633% | 1197 | 32.8 | 42.55°C | 0.987 |
| | 12.100V | 4.993V | 3.313V | 4.986V | 640.567 | | | | 44.91°C | 229.9V |
| **70%** | **52.119A** | **7.013A** | **6.979A** | **2.212A** | 699.548 | 93.24% | 1469 | 38.4 | 43.11°C | 0.988 |
| | 12.096V | 4.992V | 3.311V | 4.974V | 750.265 | | | | 47.55°C | 229.88V |
| **80%** | **59.684A** | **8.017A** | **7.98A** | **2.317A** | 799.553 | 92.837% | 1586 | 40.2 | 43.65°C | 0.989 |
| | 12.091V | 4.989V | 3.308V | 4.963V | 861.245 | | | | 49.12°C | 229.86V |
| **90%** | **67.592A** | **8.522A** | **8.469A** | **2.423A** | 899.344 | 92.443% | 1705 | 41.9 | 44.95°C | 0.99 |
| | 12.086V | 4.986V | 3.306V | 4.954V | 972.864 | | | | 50.16°C | 229.85V |

| Test | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | Temps (In/Out) | PF/AC Volts |
|---|---|---|---|---|---|---|---|---|---|---|
| **100%** | **75.305A** | **9.028A** | **8.989A** | **3.04A** | 999.348 | 91.964% | 1791 | 43.2 | 45.11°C | 0.991 |
| | 12.080V | 4.983V | 3.304V | 4.934V | 1086.674 | | | | 51.59°C | 229.82V |
| **110%** | **82.953A** | **10.037A** | **10.085A** | **3.046A** | 1099.954 | 91.414% | 1800 | 43.3 | 46.01°C | 0.991 |
| | 12.075V | 4.98V | 3.302V | 4.925V | 1203.269 | | | | 53.8°C | 229.81V |
| **CL1** | **0.116A** | **14.448A** | **14.366A** | **0A** | 121.299 | 85.888% | 1357 | 36.3 | 41.74°C | 0.933 |
| | 12.133V | 4.996V | 3.321V | 5.044V | 141.23 | | | | 47.03°C | 229.98V |
| **CL2** | **0.115A** | **19.993A** | **0A** | **0A** | 101.353 | 84.747% | 1097 | 30.2 | 40.24°C | 0.917 |
| | 12.132V | 4.999V | 3.32V | 5.053V | 119.594 | | | | 44.46°C | 229.98V |
| **CL3** | **0.115A** | **0A** | **19.838A** | **0A** | 67.401 | 80.21% | 1051 | 29.1 | 40.09°C | 0.869 |
| | 12.131V | 5.008V | 3.327V | 5.053V | 84.031 | | | | 42.7°C | 229.99V |
| **CL4** | **82.791A** | **0A** | **0A** | **0A** | 999.924 | 92.511% | 1716 | 42.1 | 45.23°C | 0.991 |
| | 12.078V | 4.995V | 3.308V | 5.005V | 1080.874 | | | | 48.67°C | 229.82V |

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** | **1.225A** | **0.499A** | **0.496A** | **0.197A** | 20.013 | 72.924% | 796 | 20 | 36.16°C | 0.875 |
| | 12.133V | 5.012V | 3.327V | 5.066V | 27.444 | | | | 44.49°C | 115.03V |
| **40W** | **2.696A** | **0.698A** | **0.695A** | **0.296A** | 40.006 | 82.846% | 685 | 14.7 | 37.36°C | 0.94 |
| | 12.130V | 5.012V | 3.326V | 5.063V | 48.289 | | | | 41.64°C | 115.02V |
| **60W** | **4.166A** | **0.898A** | **0.893A** | **0.395A** | 60.001 | 86.23% | 636 | 12.5 | 38.57°C | 0.963 |
| | 12.129V | 5.01V | 3.325V | 5.059V | 69.583 | | | | 40.62°C | 115.02V |
| **80W** | **5.632A** | **1.097A** | **1.092A** | **0.494A** | 79.946 | 88.857% | 0 | <6.0 | 39.22°C | 0.974 |
| | 12.128V | 5.012V | 3.325V | 5.056V | 89.972 | | | | 37.29°C | 115.01V |

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** | **0.499A** | **0.496A** | **0.197A** | 20.004 | 72.896% | 0 | <6.0 | 38.77°C | 0.55 |
| | 12.130V | 5.011V | 3.326V | 5.066V | 27.442 | | | | 36.55°C | 229.99V |
| **40W** | **2.696A** | **0.698A** | **0.694A** | **0.296A** | 40.003 | 83.273% | 0 | <6.0 | 39.85°C | 0.744 |
| | 12.130V | 5.014V | 3.327V | 5.063V | 48.038 | | | | 37.97°C | 229.99V |
| **60W** | **4.166A** | **0.897A** | **0.893A** | **0.395A** | 60.001 | 87.413% | 0 | <6.0 | 39.33°C | 0.831 |
| | 12.130V | 5.014V | 3.326V | 5.059V | 68.641 | | | | 38.43°C | 229.99V |
| **80W** | **5.632A** | **1.097A** | **1.091A** | **0.494A** | 79.948 | 89.515% | 0 | <6.0 | 39.41°C | 0.878 |
| | 12.129V | 5.014V | 3.326V | 5.056V | 89.312 | | | | 39.11°C | 229.99V |

The results above are not used in the certification process

## Ripple Measurements

### 115V

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 10% Load | 26.29mV | 20.54mV | 20.67mV | 19.69mV | Pass |
| 20% Load | 27.37mV | 20.74mV | 20.72mV | 19.44mV | Pass |
| 30% Load | 25.99mV | 20.38mV | 20.41mV | 18.52mV | Pass |
| 40% Load | 26.91mV | 20.94mV | 20.31mV | 19.08mV | Pass |
| 50% Load | 28.50mV | 20.33mV | 20.05mV | 19.13mV | Pass |
| 60% Load | 28.96mV | 20.84mV | 20.57mV | 18.98mV | Pass |
| 70% Load | 29.93mV | 21.15mV | 21.44mV | 19.13mV | Pass |
| 80% Load | 32.38mV | 21.20mV | 22.30mV | 19.85mV | Pass |
| 90% Load | 33.20mV | 21.92mV | 22.61mV | 19.85mV | Pass |
| 100% Load | 33.77mV | 24.32mV | 23.53mV | 21.59mV | Pass |
| 110% Load | 41.80mV | 28.41mV | 35.60mV | 27.98mV | Pass |
| Crossload1 | 26.40mV | 22.63mV | 23.07mV | 19.90mV | Pass |
| Crossload2 | 28.45mV | 23.60mV | 23.22mV | 19.08mV | Pass |

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| Crossload3 | 27.16mV | 23.55mV | 20.72mV | 18.52mV | Pass |
| Crossload4 | 33.71mV | 22.07mV | 21.84mV | 20.15mV | Pass |

The results above are not used in the certification process

**230V**

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 10% Load | 25.79mV | 19.57mV | 19.39mV | 18.62mV | Pass |
| 20% Load | 26.19mV | 19.93mV | 19.18mV | 19.59mV | Pass |
| 30% Load | 25.73mV | 20.74mV | 19.90mV | 19.03mV | Pass |
| 40% Load | 27.58mV | 21.05mV | 19.95mV | 19.64mV | Pass |
| 50% Load | 29.42mV | 21.30mV | 20.72mV | 19.44mV | Pass |
| 60% Load | 28.55mV | 21.46mV | 21.12mV | 19.13mV | Pass |
| 70% Load | 30.90mV | 20.94mV | 21.59mV | 19.24mV | Pass |
| 80% Load | 31.10mV | 21.97mV | 22.41mV | 19.75mV | Pass |
| 90% Load | 33.41mV | 22.22mV | 24.86mV | 19.69mV | Pass |
| 100% Load | 33.36mV | 22.48mV | 23.63mV | 20.97mV | Pass |
| 110% Load | 34.84mV | 22.84mV | 23.58mV | 20.72mV | Pass |
| Crossload1 | 27.73mV | 22.94mV | 22.46mV | 19.44mV | Pass |
| Crossload2 | 26.81mV | 23.15mV | 22.86mV | 19.18mV | Pass |
| Crossload3 | 25.79mV | 22.99mV | 20.77mV | 18.72mV | Pass |
| Crossload4 | 34.99mV | 20.79mV | 21.07mV | 20.82mV | Pass |

The results above are not used in the certification process

## Antec NE1000 Platinum ATX3.1



Top side




Power specifications label




Fan



PSU Internals

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

Cybenetics runs voluntary certification programs for power supplies - ETA for efficiency, LAMBDA for noise and SAFE for safety and correct operation - and for cooling products, with DELTA for chassis soundproofing and PHI for fan airflow and static pressure. THETA rates cooler performance on AMD AM5 and Intel LGA1851 outside ISO 17065 and accreditation scope

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