# NZXT

## NZXT NP-C750M

Serial Number 31195125800160

Lab ID NZ75001685

Certification ID 251685

Test Result Report ID: 20PS1685A

Certificate Issue Date: Jul 20, 2020

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 | NZXT |
| Model | NP-C750M |
| OEM/ODM | Seasonic |
| Serial Number | 31195125800160 |
| Product Specifications | |
| Manufacturer-Provided Information | |
| Rated Voltage (Vrms) | 100-240 |
| Rated Current (Arms) | 10-5 |
| Rated Frequency (Hz) | 50-60 |

| | |
|---|---|
| Rated Power (W) | 750 |
| Operating Temperature (Continuous Full Load) (°C) | |
| Type | ATX12V |
| Cable Design | Fully Modular |
| Warranty | - |
| Cybenetics Measurements | |
| Dimensions (W x H x D) | |
| Weight | |
| Cooling | 120mm Fluid Dynamic Bearing Fan<br>(HA1225H12F-Z) |
| Semi-Passive Operation | ✓ (selectable) |
| Cybenetics Testing Information | |
| Lab ID | NZ75001685 |
| Date of receipt | Jun 25, 2020 |
| Testing Date | Jul 16, 2020 |
| Report Issued Date | Jul 20, 2020 |
| 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 (610mm) | 1 | 1 | 18-22AWG | Yes |
| 4+4 pin EPS12V (650mm) | 1 | 1 | 18AWG | Yes |
| 6+2 pin PCIe (680mm+80mm) | 2 | 4 | 18AWG | Yes |
| SATA (500mm+100mm+100mm+100mm) | 2 | 8 | 18AWG | No |
| 4-pin Molex (500+100mm+100mm) | 2 | 6 | 18AWG | No |
| AC Power Cord (1400mm) - C13 coupler | 1 | 1 | 16AWG | - |

## Power Specifications

| Rail | | 3.3V | 5V | 12V | 5VSB | -12V |
|---|---|---|---|---|---|---|
| Max. Power | Amps | 20 | 20 | 62 | 3 | 0.3 |
| | Watts | 100 | | 744 | 15 | 3.6 |
| Total Max. Power (W) | | 750 | | | | |

## Parts Description

| | |
|---|---|
| General Data | - |
| Manufacturer (OEM) | Seasonic |
| PCB Type | Double Sided |
| Primary Side | - |
| Transient Filter | 4x Y caps, 2x X caps, 2x CM chokes, 1x MOV, 1x Champion CM02X (Discharge IC) |
| Inrush Protection | NTC Thermistor (MF72-5D15M) & Relay |
| Bridge Rectifier(s) | 2x GBU1508 (800V, 15A @ 100°C) |
| APFC MOSFETs | 2x Infineon IPA60R180P7S (650V, 11A @ 100°C, Rds(on): 0.18Ohm) |
| APFC Boost Diode | 1x STMicroelectronics STTH8S06 (600V, 8A @ 25°C) |
| Bulk Cap(s) | 1x Nippon Chemi-Con (400V, 560uF, 2,000h @ 105°C, KMR) |
| Main Switchers | 4x Great Power GPT10N50AD (500V, 9.7A, Rds(on): 0.7Ohm) |
| APFC Controller | Champion CM6500UNX |
| Resonant Controller | Champion CM6901T6X |
| Topology | Primary side: APFC, Full-Bridge & LLC converter<br>Secondary side: Synchronous Rectification & DC-DC converters |
| Secondary Side | - |
| +12V MOSFETs | 4x Nexperia PSMN2R6-40YS (40V, 100A @ 100°C, Rds(on): 5.3mOhm @ 175°C) |
| 5V & 3.3V | DC-DC Converters: 6x Infineon BSC0906NS (30V, 40A @ 100°C, 4.5mΩ)<br>PWM Controller: ANPEC APW7159 |
| Filtering Capacitors | Electrolytic: 2x Nippon Chemi-Con (105°C, W), 6x Nippon Chemi-Con (1-5,000h @ 105°C, KZE), 4x Nippon Chemi-Con (4-10,000h @ 105°C, KY), 2x Rubycon (3-6,000h @ 105°C, YXG)<br>Polymer: 8x Chemi-Con, 3x FPCAP, 6x NIC |
| Supervisor IC | Weltrend WT7527V (OCP, OVP, UVP, SCP, PG) |
| Fan Model | Hong Hua HA1225H12F-Z (120mm, 12V, 0.58A, 2200 RPM, Fluid Dynamic Bearing) |
| 5VSB Circuit | - |

| | |
|---|---|
| Rectifier | 1x MCC MBR1045ULPS SBR (45V, 10A @ 90°C) |
| Standby PWM Controller | Excelliance MOS EM8569 |

# 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 | ✓ |

## Performance Summary

### 115V

| | |
|---|---|
| Accredited | |
| Average Efficiency (>1450 load combinations) | 88.696% |
| Average Noise Output (>1450 Load Combinations) | 33.38dBA |
| Average PF (>1450 Load Combinations) | 0.983 |
| Efficiency With 10W (≤500W) or 2% (>500W) Load | 64.017% |
| Standby Power Consumption | 0.0442W |
| Non-Accredited | |
| 12V Ripple (Full Load) | 22.73mV |
| 5V Ripple (Full Load) | 11.75mV |
| 3.3V Ripple (Full Load) | 15.39mV |
| 5VSB Ripple (Full Load) | 9.23mV |
| 12V Load Regulation | 0.24% |
| 5V Load Regulation | 1.39% |
| 3.3V Load Regulation | 1.29% |
| 5VSB Load Regulation | 3.13% |
| Inrush Current | 28.550A |

| 230V | | |
|---|---|---|
| Accredited | | |
| Average Efficiency (>1450 load combinations) | | 90.780% |
| Average Noise Output (>1450 Load Combinations) | | 33.05dBA |
| Average PF (>1450 Load Combinations) | | 0.943 |
| Efficiency With 10W (≤500W) or 2% (>500W) Load | | - |
| Standby Power Consumption | | 0.0683W |
| Non-Accredited | | |
| 12V Ripple (Full Load) | | 23.76mV |
| 5V Ripple (Full Load) | | 12.16mV |
| 3.3V Ripple (Full Load) | | 15.38mV |
| 5VSB Ripple (Full Load) | | 8.85mV |
| 12V Load Regulation | | 0.31% |
| 5V Load Regulation | | 1.47% |
| 3.3V Load Regulation | | 1.59% |
| 5VSB Load Regulation | | 3.09% |
| Inrush Current | | 67.100A |
| Hold-Up Time & PWR_OK Signal | | 22.10ms |
| AC Loss to PWR_OK Hold Up Time | | 18.40ms |
| PWR_OK Inactive to DC Loss Delay | | 3.70ms |
| PSU Timings: T1 (20% / 100%) | 92.0ms | 85.0ms |
| PSU Timings: T3 (20% / 100%) | 324.0ms | 322.0ms |
| OPP (0.00°C / 0.00°C) | 138.19% | - |

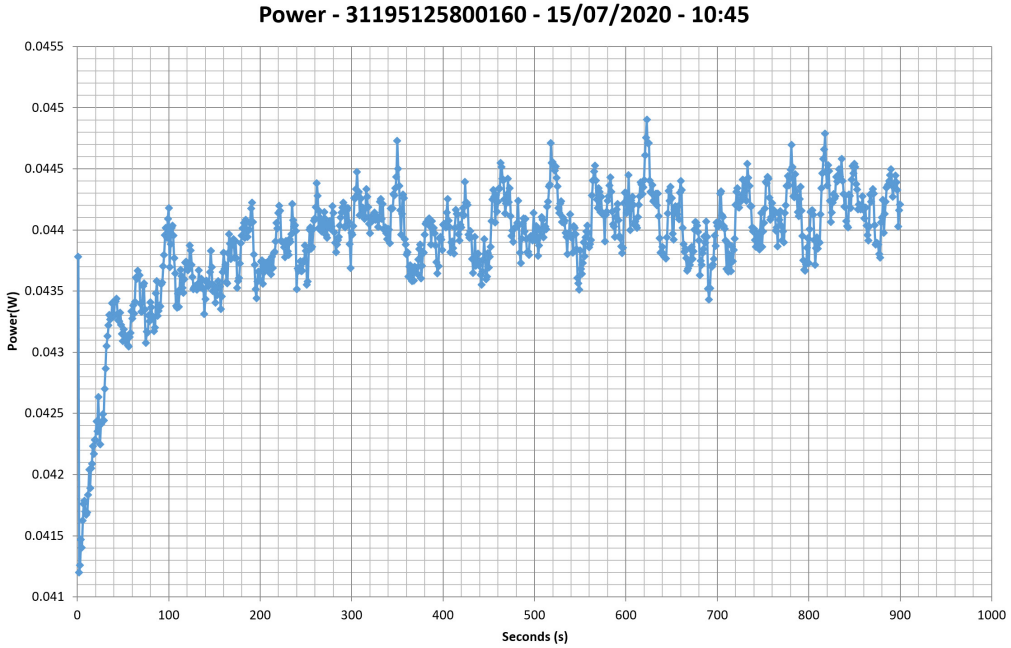
## Hold-Up Time & PWR_OK Signal

| | |
|---|---|
| Hold-Up Time (ms) | 22.1 |
| AC Loss to PWR_OK Hold Up Time (ms) | 18.4 |
| PWR_OK Inactive to DC Loss Delay (ms) | 3.7 |

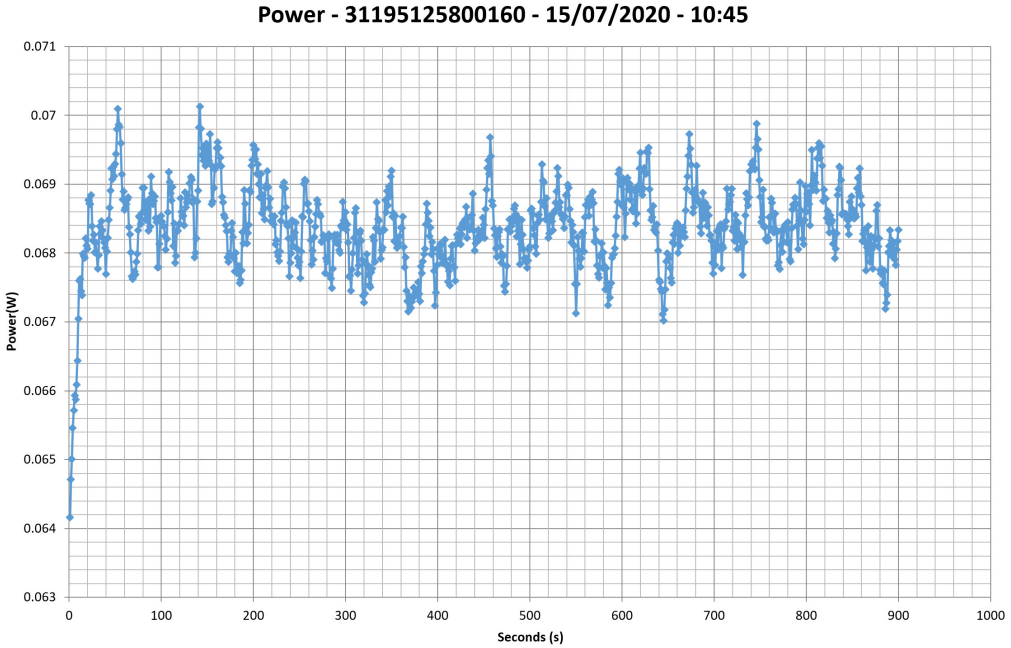
# Vampire Power

## Graphs

### 115V

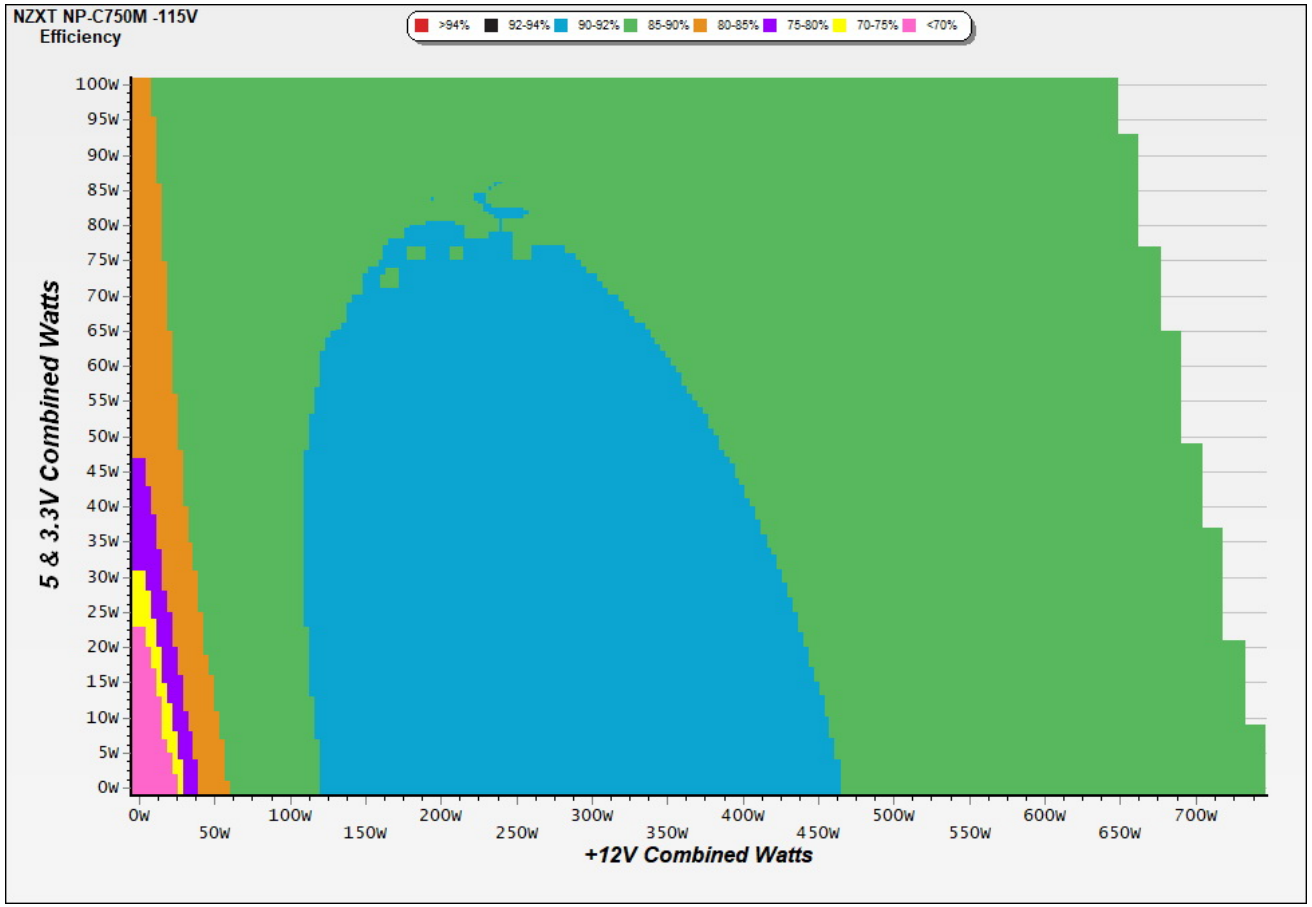



### 230V



## Efficiency Graph

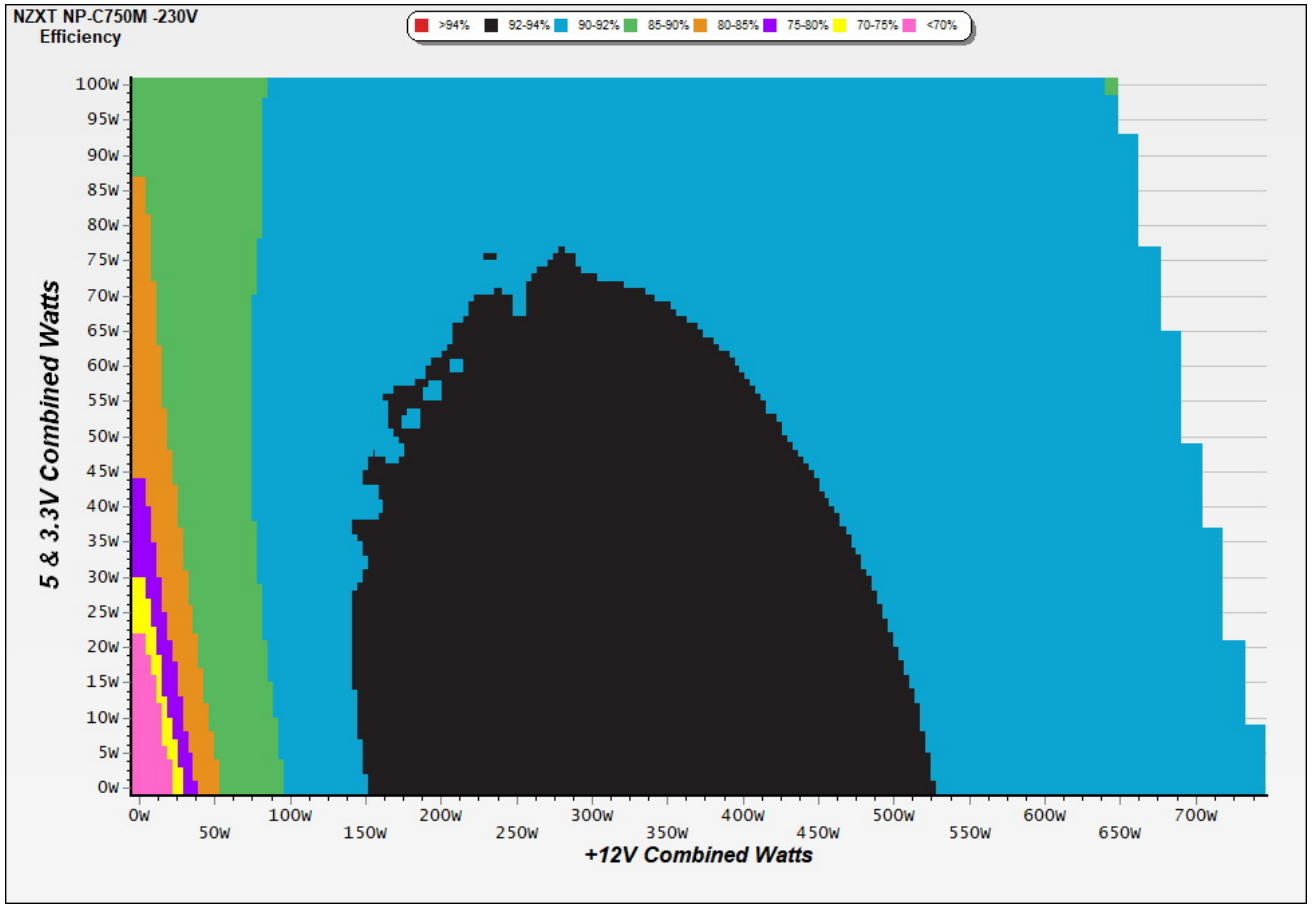
### 115V




### 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

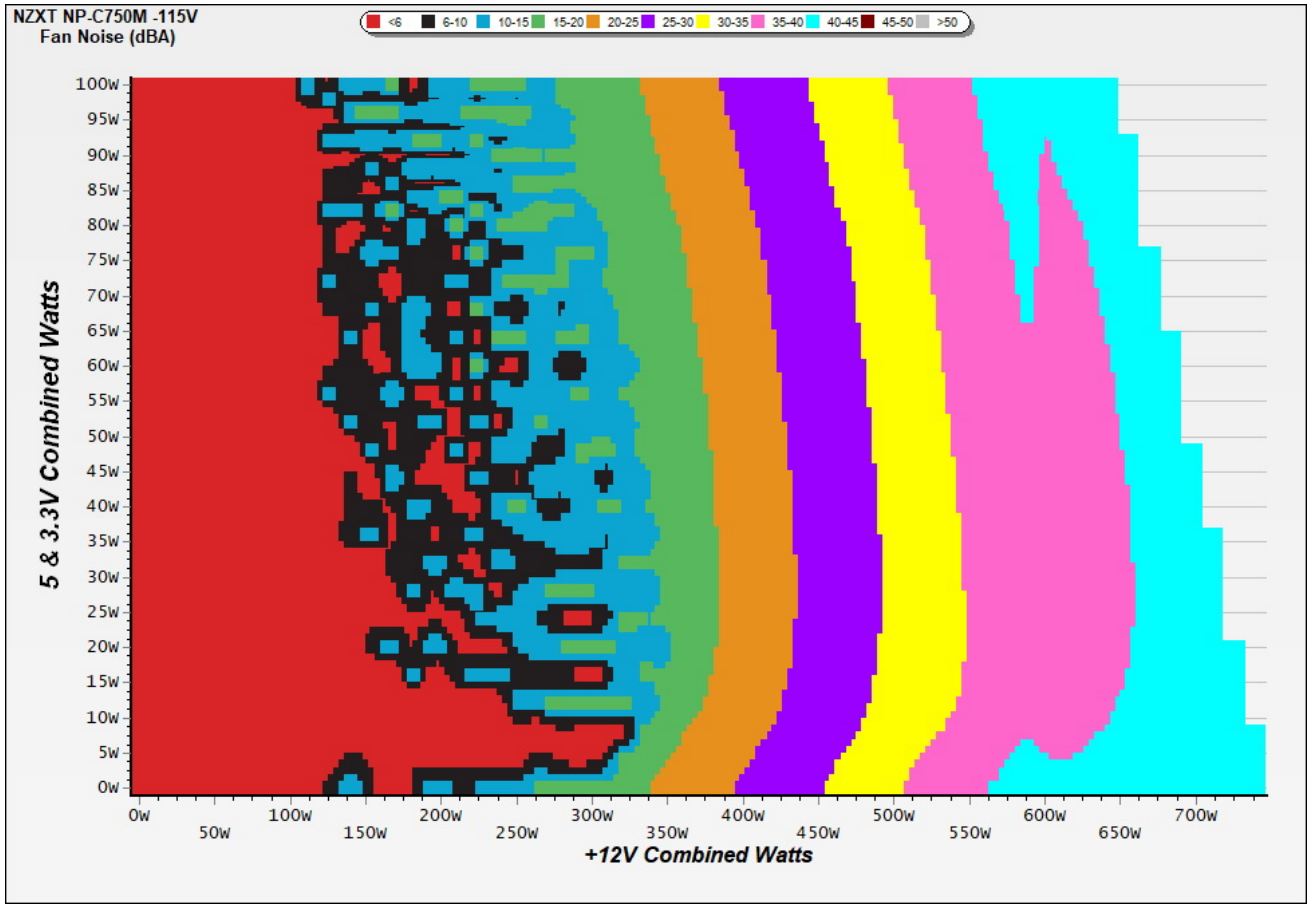



### INFO

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

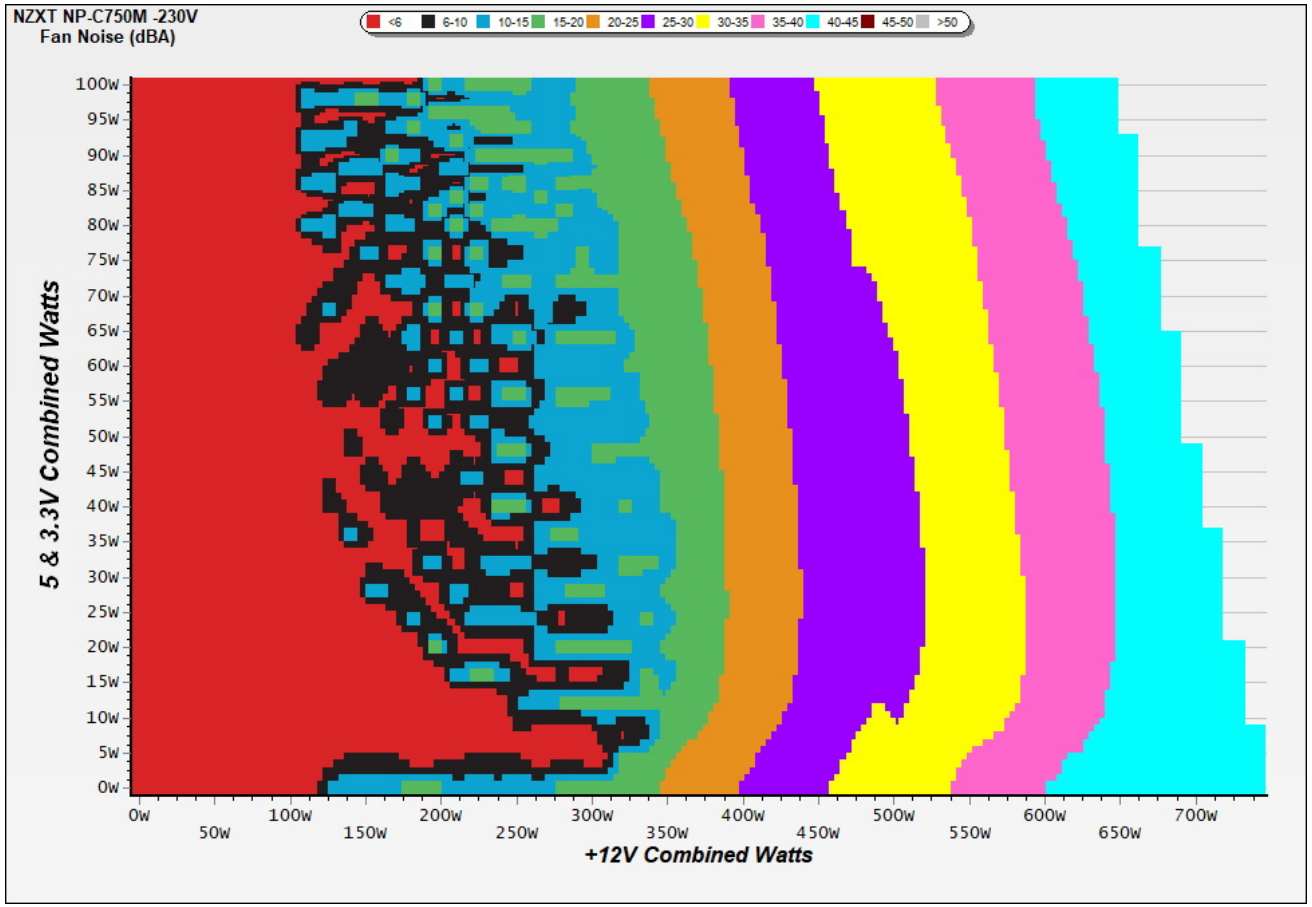
### 115V




### 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

## 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) · 43.3 °C | 0 RPM · <6.0 dB(A) · 43.3 °C | fan off in both |
| 20% | 577 RPM · 10.5 dB(A) · 41.0 °C | 577 RPM · 10.5 dB(A) · 41.0 °C | **+0.0 dB(A)** |
| 50% | 1087 RPM · 28.1 dB(A) · 42.0 °C | 1087 RPM · 28.1 dB(A) · 42.0 °C | **+0.0 dB(A)** |
| 100% | 2094 RPM · 44.7 dB(A) · 45.2 °C | 2094 RPM · 44.7 dB(A) · 45.2 °C | **+0.0 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) · 43.6 °C | 0 RPM · <6.0 dB(A) · 43.6 °C | fan off in both |
| 20% | 601 RPM · 11.2 dB(A) · 40.7 °C | 601 RPM · 11.2 dB(A) · 40.7 °C | **+0.0 dB(A)** |
| 50% | 1103 RPM · 28.6 dB(A) · 42.1 °C | 1103 RPM · 28.6 dB(A) · 42.1 °C | **+0.0 dB(A)** |
| 100% | 2098 RPM · 44.8 dB(A) · 45.0 °C | 2098 RPM · 44.8 dB(A) · 45.0 °C | **+0.0 dB(A)** |

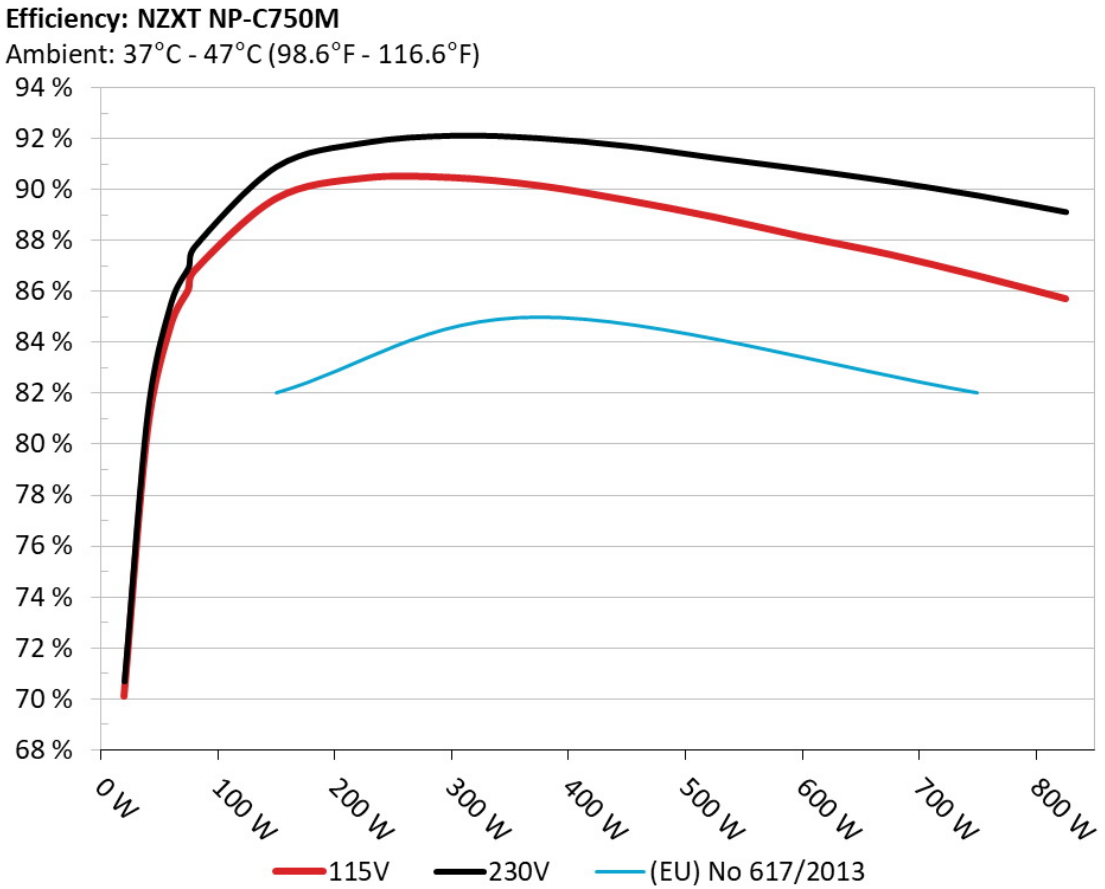
### INFO

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.*

## Indicative Performance

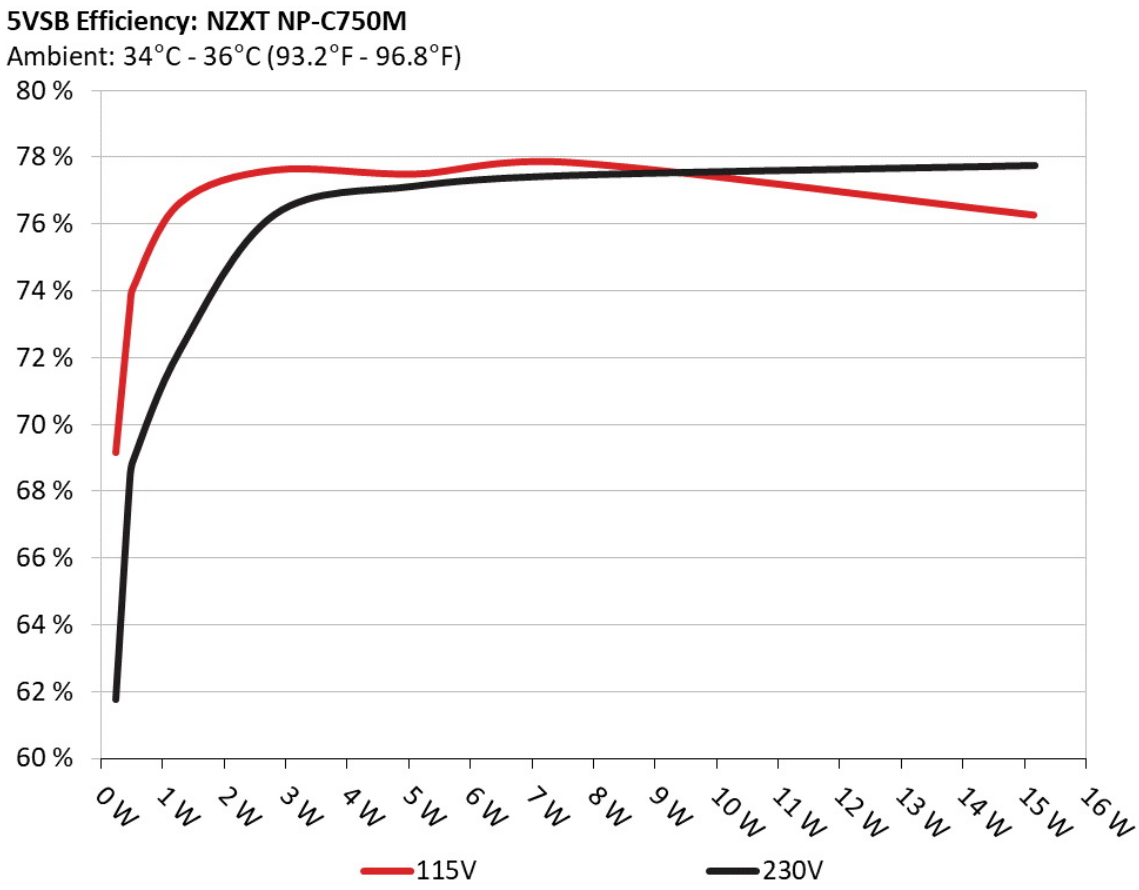
### Efficiency under high ambient temperature




**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 | 0.231 | 69.162% | 0.054 |
| | 5.123V | 0.334 | | 115.17V |
| 2 | 0.090A | 0.461 | 73.525% | 0.098 |
| | 5.122V | 0.627 | | 115.17V |
| 3 | 0.550A | 2.813 | 77.621% | 0.335 |
| | 5.112V | 3.624 | | 115.17V |
| 4 | 1.000A | 5.104 | 77.498% | 0.407 |
| | 5.103V | 6.586 | | 115.17V |
| 5 | 1.500A | 7.639 | 77.846% | 0.442 |
| | 5.091V | 9.813 | | 115.17V |
| 6 | 3.000A | 15.159 | 76.272% | 0.494 |
| | 5.053V | 19.875 | | 115.17V |

### 230V

| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
|---|---|---|---|---|
| 1 | 0.045A | 0.231 | 61.765% | 0.018 |
| | 5.123V | 0.374 | | 230.35V |
| 2 | 0.090A | 0.461 | 68.398% | 0.033 |
| | 5.122V | 0.674 | | 230.35V |
| 3 | 0.550A | 2.812 | 76.268% | 0.159 |
| | 5.112V | 3.687 | | 230.36V |
| 4 | 1.000A | 5.104 | 77.123% | 0.240 |
| | 5.102V | 6.618 | | 230.35V |
| 5 | 1.500A | 7.638 | 77.441% | 0.296 |
| | 5.091V | 9.863 | | 230.35V |
| 6 | 3.000A | 15.175 | 77.737% | 0.376 |
| | 5.058V | 19.521 | | 230.35V |

## 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 | 4.421A | 1.988A | 1.982A | 0.982A | 74.962 | 86.060% | 0 | <6.0 | 43.25°C | 0.963 |
| | 12.070V | 5.030V | 3.331V | 5.091V | 87.104 | | | | 39.63°C | 115.15V |
| 2 | 9.872A | 2.986A | 2.975A | 1.182A | 150.035 | 89.637% | 577 | 10.5 | 40.96°C | 0.979 |
| | 12.068V | 5.024V | 3.327V | 5.077V | 167.380 | | | | 45.12°C | 115.13V |
| 3 | 15.662A | 3.489A | 3.477A | 1.383A | 225.038 | 90.437% | 691 | 14.4 | 41.06°C | 0.985 |
| | 12.066V | 5.018V | 3.322V | 5.063V | 248.834 | | | | 45.89°C | 115.12V |
| 4 | 21.459A | 3.992A | 3.979A | 1.585A | 300.049 | 90.458% | 903 | 22.2 | 41.78°C | 0.986 |
| | 12.062V | 5.011V | 3.318V | 5.050V | 331.699 | | | | 47.22°C | 115.09V |
| 5 | 26.881A | 4.997A | 4.979A | 1.788A | 374.662 | 90.144% | 1087 | 28.1 | 42.03°C | 0.988 |
| | 12.059V | 5.004V | 3.313V | 5.036V | 415.624 | | | | 48.10°C | 115.11V |
| 6 | 32.333A | 6.004A | 5.986A | 1.992A | 449.612 | 89.570% | 1316 | 33.7 | 42.29°C | 0.988 |
| | 12.056V | 4.997V | 3.308V | 5.021V | 501.965 | | | | 49.25°C | 115.11V |
| 7 | 37.821A | 7.017A | 6.993A | 2.198A | 524.934 | 88.902% | 1654 | 39.3 | 43.06°C | 0.989 |
| | 12.052V | 4.989V | 3.304V | 5.006V | 590.462 | | | | 50.69°C | 115.10V |
| 8 | 43.310A | 8.003A | 8.000A | 2.405A | 600.105 | 88.138% | 1988 | 43.6 | 44.27°C | 0.990 |
| | 12.049V | 4.981V | 3.300V | 4.990V | 680.873 | | | | 52.28°C | 115.09V |
| 9 | 49.172A | 8.545A | 8.497A | 2.410A | 674.779 | 87.440% | 2081 | 44.6 | 44.37°C | 0.990 |
| | 12.045V | 4.973V | 3.296V | 4.980V | 771.705 | | | | 53.74°C | 115.08V |
| 10 | 54.836A | 9.066A | 9.032A | 3.027A | 750.005 | 86.604% | 2094 | 44.7 | 45.22°C | 0.991 |
| | 12.041V | 4.965V | 3.289V | 4.957V | 866.012 | | | | 55.17°C | 115.08V |
| 11 | 61.100A | 9.082A | 9.056A | 3.033A | 825.239 | 85.700% | 2104 | 44.9 | 46.51°C | 0.992 |
| | 12.038V | 4.956V | 3.280V | 4.947V | 962.936 | | | | 57.17°C | 115.07V |
| CL1 | 0.117A | 12.001A | 12.001A | 0.000A | 101.657 | 84.856% | 794 | 18.4 | 42.21°C | 0.972 |
| | 12.079V | 5.017V | 3.336V | 5.088V | 119.799 | | | | 47.85°C | 115.16V |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CL2 | 62.019A | 1.000A | 1.000A | 1.000A | 759.915 | 87.085% | 2096 | 44.8 | 45.47°C | 0.991 |
| | 12.039V | 4.971V | 3.280V | 5.018V | 872.613 | | | | 55.83°C | 115.08V |

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 | 4.431A | 1.989A | 1.983A | 0.983A | 74.970 | 86.948% | 0 | <6.0 | 43.57°C | 0.812 |
| | 12.042V | 5.030V | 3.330V | 5.090V | 86.224 | | | | 40.48°C | 230.41V |
| 2 | 9.888A | 2.988A | 2.978A | 1.182A | 150.059 | 90.883% | 601 | 11.2 | 40.65°C | 0.906 |
| | 12.050V | 5.022V | 3.325V | 5.076V | 165.112 | | | | 44.55°C | 230.41V |
| 3 | 15.666A | 3.491A | 3.479A | 1.383A | 225.072 | 91.820% | 668 | 13.6 | 41.06°C | 0.938 |
| | 12.065V | 5.016V | 3.320V | 5.062V | 245.122 | | | | 45.44°C | 230.41V |
| 4 | 21.464A | 3.995A | 3.985A | 1.585A | 300.094 | 92.102% | 867 | 21.4 | 41.37°C | 0.956 |
| | 12.061V | 5.008V | 3.314V | 5.049V | 325.828 | | | | 46.58°C | 230.40V |
| 5 | 26.894A | 5.001A | 4.989A | 1.788A | 374.799 | 92.002% | 1103 | 28.6 | 42.11°C | 0.965 |
| | 12.058V | 5.000V | 3.308V | 5.035V | 407.381 | | | | 47.84°C | 230.39V |
| 6 | 32.348A | 6.014A | 5.996A | 1.993A | 449.720 | 91.697% | 1242 | 32.0 | 42.62°C | 0.970 |
| | 12.053V | 4.992V | 3.303V | 5.019V | 490.440 | | | | 49.10°C | 230.40V |
| 7 | 37.837A | 7.026A | 7.006A | 2.199A | 525.020 | 91.232% | 1749 | 40.9 | 43.34°C | 0.974 |
| | 12.049V | 4.983V | 3.298V | 5.005V | 575.476 | | | | 50.64°C | 230.37V |
| 8 | 43.330A | 8.002A | 8.020A | 2.406A | 600.125 | 90.787% | 1912 | 42.7 | 43.40°C | 0.977 |
| | 12.045V | 4.975V | 3.292V | 4.989V | 661.025 | | | | 51.89°C | 230.37V |
| 9 | 49.221A | 8.559A | 8.523A | 2.411A | 674.843 | 90.307% | 2090 | 44.7 | 44.86°C | 0.979 |
| | 12.034V | 4.966V | 3.286V | 4.980V | 747.273 | | | | 54.04°C | 230.35V |
| 10 | 54.844A | 9.082A | 9.062A | 3.028A | 750.054 | 89.754% | 2098 | 44.8 | 45.03°C | 0.981 |
| | 12.040V | 4.957V | 3.278V | 4.956V | 835.682 | | | | 55.53°C | 230.35V |
| 11 | 61.104A | 9.095A | 9.085A | 3.033A | 825.294 | 89.105% | 2109 | 44.9 | 46.70°C | 0.983 |
| | 12.038V | 4.949V | 3.270V | 4.947V | 926.207 | | | | 58.43°C | 230.36V |
| CL1 | 0.118A | 12.002A | 12.001A | 0.000A | 101.517 | 85.836% | 832 | 20.1 | 42.58°C | 0.872 |
| | 12.075V | 5.013V | 3.327V | 5.088V | 118.268 | | | | 47.67°C | 230.37V |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CL2 | 62.025A | 1.000A | 1.000A | 1.000A | 759.732 | 90.251% | 2095 | 44.7 | 45.18°C | 0.981 |
| | 12.035V | 4.967V | 3.276V | 5.017V | 841.803 | | | | 55.80°C | 230.32V |

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 | 1.230A | 0.496A | 0.495A | 0.196A | 19.992 | 70.086% | 0 | <6.0 | 0.850 |
| | 12.067V | 5.036V | 3.332V | 5.117V | 28.525 | | | | 115.16V |
| 2 | 2.459A | 0.994A | 0.991A | 0.392A | 39.982 | 80.502% | 0 | <6.0 | 0.929 |
| | 12.067V | 5.035V | 3.332V | 5.109V | 49.666 | | | | 115.16V |
| 3 | 3.693A | 1.490A | 1.485A | 0.588A | 60.012 | 84.673% | 0 | <6.0 | 0.953 |
| | 12.068V | 5.032V | 3.331V | 5.102V | 70.875 | | | | 115.15V |
| 4 | 4.919A | 1.987A | 1.982A | 0.785A | 79.961 | 86.795% | 0 | <6.0 | 0.964 |
| | 12.068V | 5.031V | 3.331V | 5.095V | 92.126 | | | | 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]) | PF/AC Volts |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.231A | 0.495A | 0.496A | 0.196A | 19.997 | 70.696% | 0 | <6.0 | 0.532 |
| | 12.063V | 5.037V | 3.331V | 5.116V | 28.286 | | | | 230.39V |
| 2 | 2.461A | 0.994A | 0.991A | 0.392A | 39.988 | 81.268% | 0 | <6.0 | 0.676 |
| | 12.060V | 5.035V | 3.331V | 5.109V | 49.205 | | | | 230.40V |
| 3 | 3.694A | 1.490A | 1.487A | 0.588A | 60.018 | 85.560% | 0 | <6.0 | 0.766 |
| | 12.065V | 5.032V | 3.330V | 5.102V | 70.147 | | | | 230.39V |
| 4 | 4.925A | 1.989A | 1.983A | 0.785A | 79.966 | 87.744% | 0 | <6.0 | 0.821 |
| | 12.053V | 5.030V | 3.329V | 5.094V | 91.136 | | | | 230.40V |

The results above are not used in the certification process

## Ripple Measurements

### 115V

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 10% Load | 9.80mV | 6.20mV | 5.40mV | 5.50mV | Pass |
| 20% Load | 13.40mV | 6.30mV | 5.70mV | 6.00mV | Pass |
| 30% Load | 15.80mV | 7.00mV | 6.20mV | 6.50mV | Pass |
| 40% Load | 17.90mV | 7.10mV | 6.90mV | 6.70mV | Pass |
| 50% Load | 13.80mV | 7.60mV | 6.90mV | 6.50mV | Pass |
| 60% Load | 12.20mV | 7.80mV | 7.10mV | 6.90mV | Pass |
| 70% Load | 12.20mV | 8.50mV | 7.60mV | 7.30mV | Pass |
| 80% Load | 12.70mV | 9.20mV | 13.60mV | 8.40mV | Pass |
| 90% Load | 14.60mV | 10.10mV | 14.60mV | 9.10mV | Pass |
| 100% Load | 22.70mV | 11.80mV | 15.40mV | 9.20mV | Pass |
| 110% Load | 26.50mV | 12.60mV | 15.50mV | 10.30mV | Pass |
| Crossload1 | 14.40mV | 12.20mV | 14.30mV | 7.30mV | Pass |
| Crossload2 | 21.70mV | 9.00mV | 8.20mV | 8.50mV | Pass |

The results above are not used in the certification process

### 230V

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 10% Load | 9.40mV | 5.90mV | 5.30mV | 5.60mV | Pass |
| 20% Load | 13.50mV | 6.40mV | 5.70mV | 6.30mV | Pass |
| 30% Load | 16.00mV | 6.80mV | 6.10mV | 6.50mV | Pass |
| 40% Load | 18.10mV | 7.50mV | 6.50mV | 6.10mV | Pass |
| 50% Load | 14.50mV | 7.70mV | 6.70mV | 6.10mV | Pass |
| 60% Load | 12.30mV | 8.10mV | 6.90mV | 6.50mV | Pass |
| 70% Load | 12.80mV | 8.00mV | 7.20mV | 6.40mV | Pass |
| 80% Load | 13.50mV | 9.10mV | 13.80mV | 7.40mV | Pass |

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 90% Load | 15.90mV | 9.70mV | 14.10mV | 8.10mV | Pass |
| 100% Load | 23.80mV | 12.20mV | 15.40mV | 8.90mV | Pass |
| 110% Load | 27.60mV | 12.10mV | 16.00mV | 8.80mV | Pass |
| Crossload1 | 14.20mV | 12.00mV | 14.50mV | 6.80mV | Pass |
| Crossload2 | 24.80mV | 8.60mV | 8.00mV | 8.00mV | Pass |

The results above are not used in the certification process

**NZXT NP-C750M**



Top side




Power specifications label

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

CYBENETICS LTD Syrou 6, Latsia, 2231, Nicosia Cyprus

www.cybenetics.com - info@cybenetics.com