# XPG Pylon 650W

Serial Number 4K2980397811

Lab ID AD65001779

Certification ID 251779

Test Result Report ID: 21PS1779A

Certificate Issue Date: Jan 27, 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 | XPG |
| Model | Pylon 650W |
| OEM/ODM | Channel Well Technology |
| Serial Number | 4K2980397811 |
| Product Specifications | |
| Manufacturer-Provided Information | |
| Rated Voltage (Vrms) | 100-240 |
| Rated Current (Arms) | 10-5 |

| | |
|---|---|
| Rated Frequency (Hz) | 50-60 |
| Rated Power (W) | 650 |
| Operating Temperature (Continuous Full Load) (°C) | |
| Type | ATX12V |
| Cable Design | Fixed cables |
| Warranty | - |
| Cybenetics Measurements | |
| Dimensions (W x H x D) | |
| Weight | |
| Cooling | 120mm Fluid Dynamic Bearing Fan<br>(HA1225H12F-Z) |
| Semi-Passive Operation | ✗ |
| Cybenetics Testing Information | |
| Lab ID | AD65001779 |
| Date of receipt | Jan 8, 2021 |
| Testing Date | Jan 19, 2021 |
| Report Issued Date | Jan 27, 2021 |
| Engineer Name | - |
| Authorized By the Laboratory Technical Manager | Aristeidis Bitziopoulos |
| Signature |  |

## Cables and Connectors
## (Non-accredited measurements)

| Native Cables | | | | |
|---|---|---|---|---|
| Description | Cable Count | Connector Count (Total) | Gauge | In Cable Caps |
| ATX connector 20+4 pin (660mm) | 1 | 1 | 18-22AWG | No |
| 8 pin EPS12V (650mm) / 4+4 pinEPS12V (+150mm) | 1 | 1 / 1 | 18AWG | No |
| 6+2 pin PCIe (560mm+150mm) | 2 | 4 | 18AWG | No |
| SATA (560mm+150mm+150mm) / 4-pin Molex (+150mm) | 2 | 6 / 2 | 18AWG | No |
| SATA (560mm+150mm) / 4-pin Molex (+150mm) / FDD (+150mm) | 1 | 2 / 1 / 1 | 18-20AWG | No |

| | | | | | |
|---|---|---|---|---|---|
| Modular Cables | | | | | |
| AC Power Cord (1380mm) - C13 coupler | 1 | 1 | 18AWG | - | |

## Power Specifications

| Rail | | 3.3V | 5V | 12V | 5VSB | -12V |
|---|---|---|---|---|---|---|
| Max. Power | Amps | 20 | 20 | 54 | 2.5 | 0.3 |
| | Watts | 110 | | 648 | 12.5 | 3.6 |
| Total Max. Power (W) | | 650 | | | | |

## Parts Description

| | |
|---|---|
| General Data | - |
| Manufacturer (OEM) | CWT |
| PCB Type | Single Sided |
| Primary Side | - |
| Transient Filter | 4x Y caps, 2x X caps, 2x CM chokes, 1x MOV, 1x CAP200DG (Discharge IC) |
| Inrush Protection | NTC Thermistor SCK - 2R58 (2.5 Ohm) |
| Bridge Rectifier(s) | 1x GBU1506 (600V, 15A @ 100°C) |
| APFC MOSFETs | 2x Great Power GP18S50G (500V, 18A, Rds(on): 0.19Ohm) |
| APFC Boost Diode | 1x On Semiconductor FFSP0665A (650V, 6A @ 153°C) |
| Bulk Cap(s) | 1x Nippon Chemi-Con (400V, 470uF, 2,000h @ 105°C, KMW) |
| Main Switchers | 2x Silan Microelectronics SVF20N50F (500V, 12.6A @ 100°C, Rds(on): 0.27Ohm) |
| PFC/PWM Combo Controller | Champion CM6800TX & Champion CM03X |
| Topology | Primary side: APFC, Double Forward<br>Secondary side: Passive Rectification (12V) & DC-DC converters (5V & 3.3V) |
| Secondary Side | - |
| +12V | 4x PFC PFR30L60CT SBR (60V, 30A) |
| 5V & 3.3V | 4x Sync Power SPN3006 (30V, 57A @ 100°C, Rds(on): 5.5mOhm)<br>PWM Controller: ANPEC APW7159C |
| Filtering Capacitors | Electrolytic: 5x Elite (2-5,000h @ 105°C, ED), 5x Elite (2-5,000h @ 105°C, EK), 4x Elite (4-10,000h @ 105°C, EY), 2x Elite (3-6,000h @ 105°C, EV), 1x Elite (3-6,000h @ 105°C, EG), 2x Elite (2,000h @ 105°C, PF)<br>Polymer: 2x Elite |
| Supervisor IC | IN1S429I - DCG |

| | |
|---|---|
| Fan Model | Hong Hua HA1225H12F-Z (120mm, 12V, 0.58A, Fluid Dynamic Bearing Fan) |
| 5VSB Circuit | - |
| Standby PWM Controller | Power Integrations TNY287PG |

# 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) | 85.443% |
| Average Noise Output (>1450 Load Combinations) | 33.42dBA |
| Average PF (>1450 Load Combinations) | 0.985 |
| Efficiency With 10W (≤500W) or 2% (>500W) Load | 65.084% |
| Standby Power Consumption | 0.0430W |
| Non-Accredited | |
| 12V Ripple (Full Load) | 56.72mV |
| 5V Ripple (Full Load) | 18.38mV |
| 3.3V Ripple (Full Load) | 19.50mV |
| 5VSB Ripple (Full Load) | 14.94mV |
| 12V Load Regulation | 1.03% |
| 5V Load Regulation | 0.38% |
| 3.3V Load Regulation | 0.72% |
| 5VSB Load Regulation | 2.34% |
| Inrush Current | 33.860A |

| 230V | | |
|---|---|---|
| Accredited | | |
| Average Efficiency (>1450 load combinations) | | 87.565% |
| Average Noise Output (>1450 Load Combinations) | | 32.44dBA |
| Average PF (>1450 Load Combinations) | | 0.960 |
| Efficiency With 10W (≤500W) or 2% (>500W) Load | | - |
| Standby Power Consumption | | 0.0885W |
| Non-Accredited | | |
| 12V Ripple (Full Load) | | 52.46mV |
| 5V Ripple (Full Load) | | 18.79mV |
| 3.3V Ripple (Full Load) | | 18.82mV |
| 5VSB Ripple (Full Load) | | 15.58mV |
| 12V Load Regulation | | 1.01% |
| 5V Load Regulation | | 0.40% |
| 3.3V Load Regulation | | 0.72% |
| 5VSB Load Regulation | | 2.32% |
| Inrush Current | | 65.220A |
| Hold-Up Time & PWR_OK Signal | | 14.70ms |
| AC Loss to PWR_OK Hold Up Time | | 12.90ms |
| PWR_OK Inactive to DC Loss Delay | | 1.80ms |
| PSU Timings: T1 (20% / 100%) | 45.0ms | 32.0ms |
| PSU Timings: T3 (20% / 100%) | 130.0ms | 130.0ms |
| OPP (21.40°C / 38.42°C) | 126.45% | 118.82% |

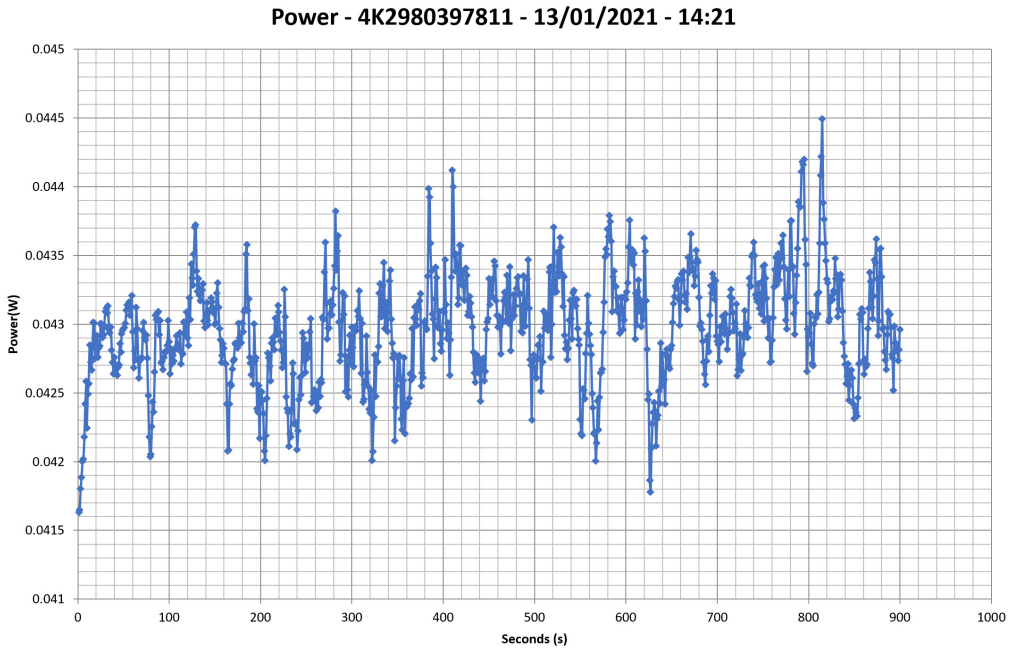
## Hold-Up Time & PWR_OK Signal

| | |
|---|---|
| Hold-Up Time (ms) | 14.7 |
| AC Loss to PWR_OK Hold Up Time (ms) | 12.9 |
| PWR_OK Inactive to DC Loss Delay (ms) | 1.8 |

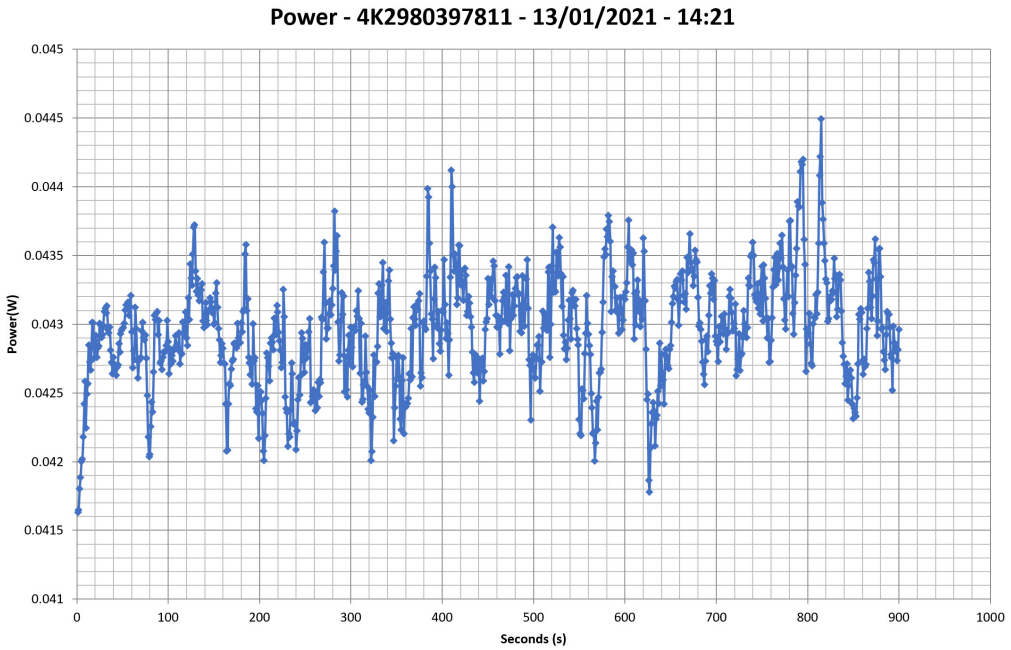
## Stromverbrauch im Ruhezustand

### Graphs

#### 115V

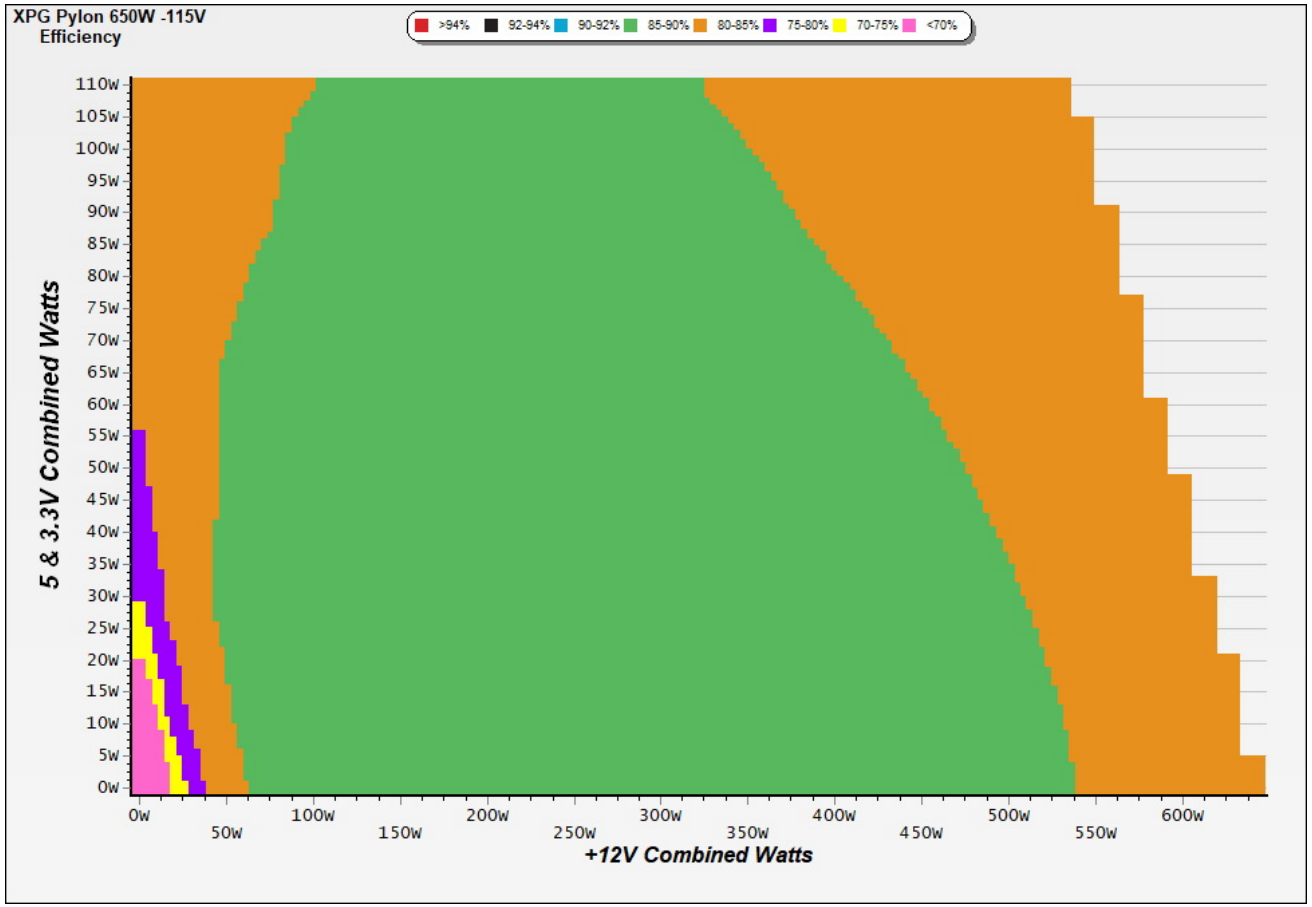



#### 230V



## Efficiency Graph

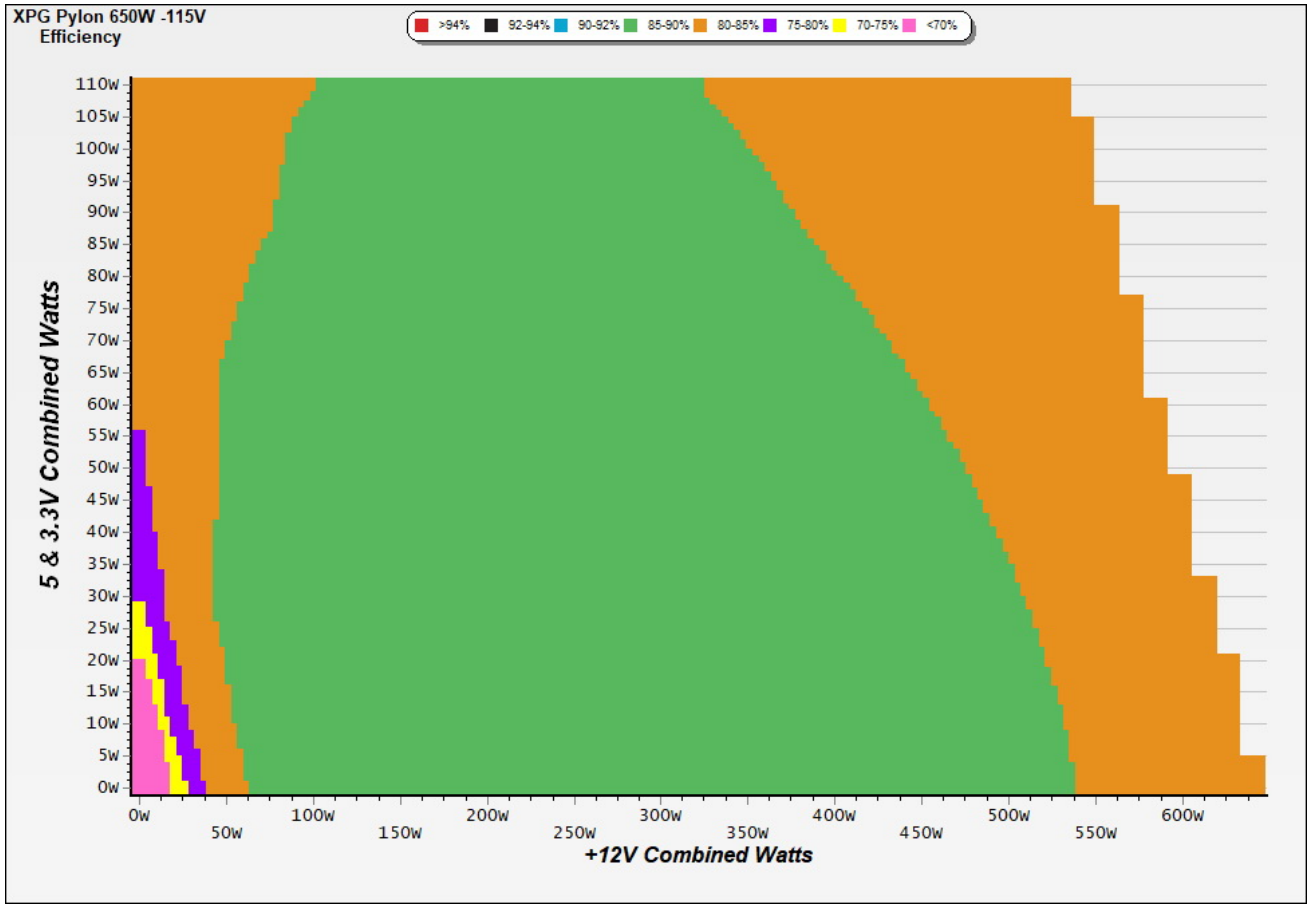
### 115V




### 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

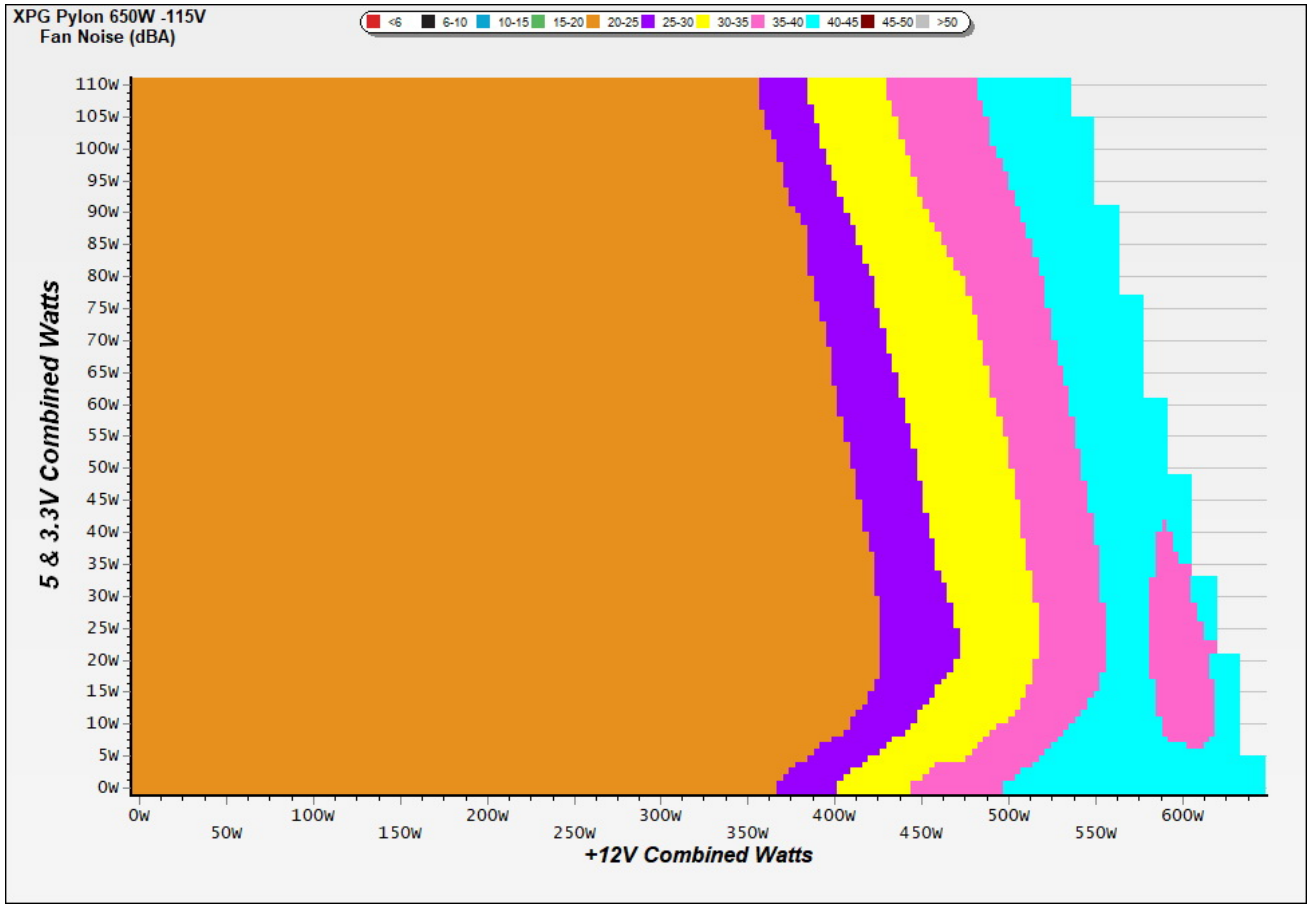



### INFO

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

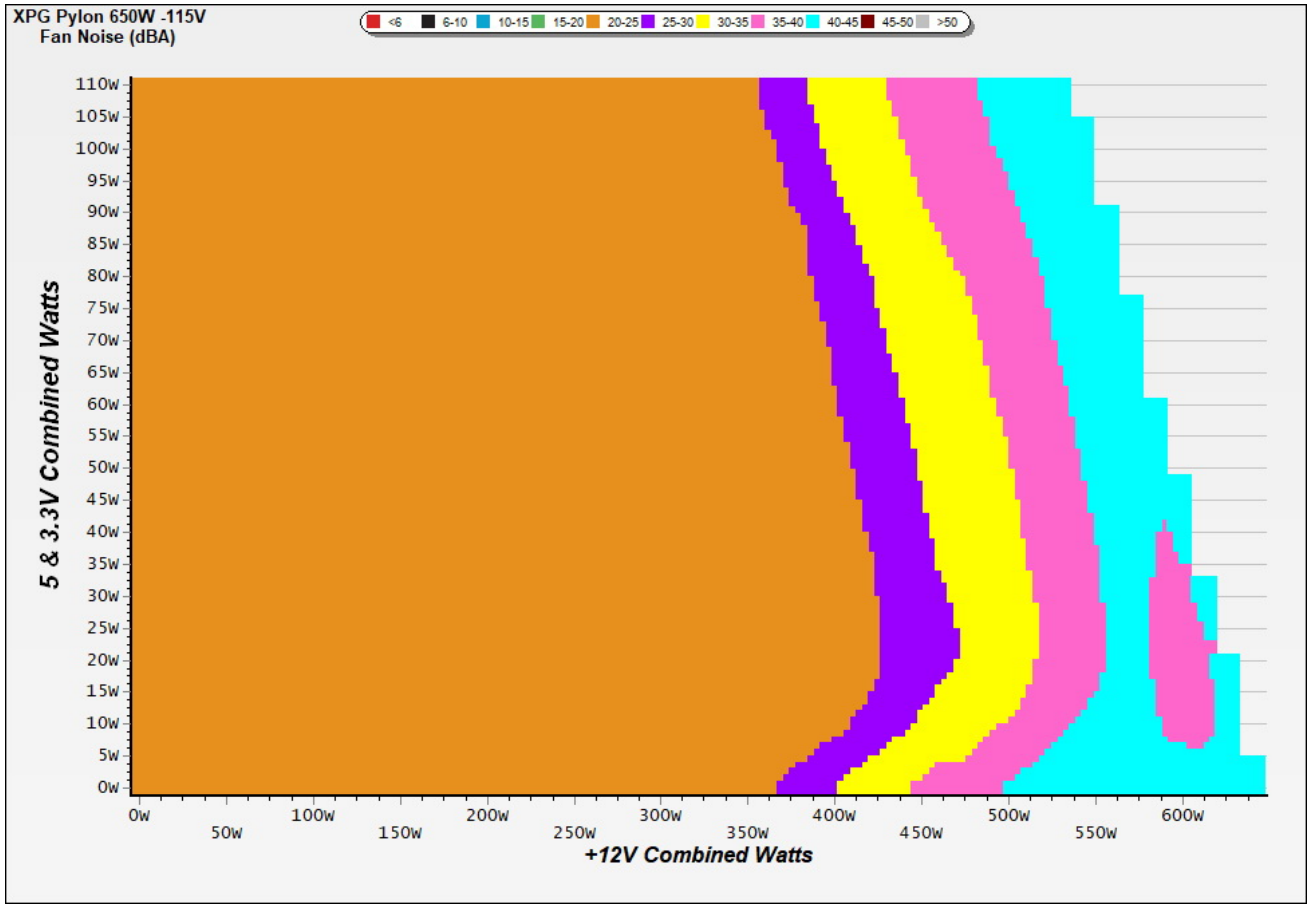
### 115V




### 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

## Noise under high ambient temperature (indicative)

### 115V

| Load | Normal ambient<br>fan · noise · intake | High ambient<br>fan · noise · intake | Noise change |
|---|---|---|---|
| 10% | 872 RPM · 21.8 dB(A) · 34.7 °C | 872 RPM · 21.8 dB(A) · 34.7 °C | **+0.0 dB(A)** |
| 20% | 876 RPM · 21.7 dB(A) · 35.6 °C | 876 RPM · 21.7 dB(A) · 35.6 °C | **+0.0 dB(A)** |
| 50% | 888 RPM · 23.1 dB(A) · 37.3 °C | 888 RPM · 23.1 dB(A) · 37.3 °C | **+0.0 dB(A)** |
| 100% | 2343 RPM · 46.5 dB(A) · 40.1 °C | 2343 RPM · 46.5 dB(A) · 40.1 °C | **+0.0 dB(A)** |

### 230V

| Load | Normal ambient<br>fan · noise · intake | High ambient<br>fan · noise · intake | Noise change |
|---|---|---|---|
| 10% | 871 RPM · 21.8 dB(A) · 34.9 °C | 871 RPM · 21.8 dB(A) · 34.9 °C | **+0.0 dB(A)** |
| 20% | 877 RPM · 21.8 dB(A) · 35.6 °C | 877 RPM · 21.8 dB(A) · 35.6 °C | **+0.0 dB(A)** |
| 50% | 887 RPM · 22.9 dB(A) · 37.6 °C | 887 RPM · 22.9 dB(A) · 37.6 °C | **+0.0 dB(A)** |
| 100% | 2196 RPM · 45.9 dB(A) · 39.8 °C | 2196 RPM · 45.9 dB(A) · 39.8 °C | **+0.0 dB(A)** |

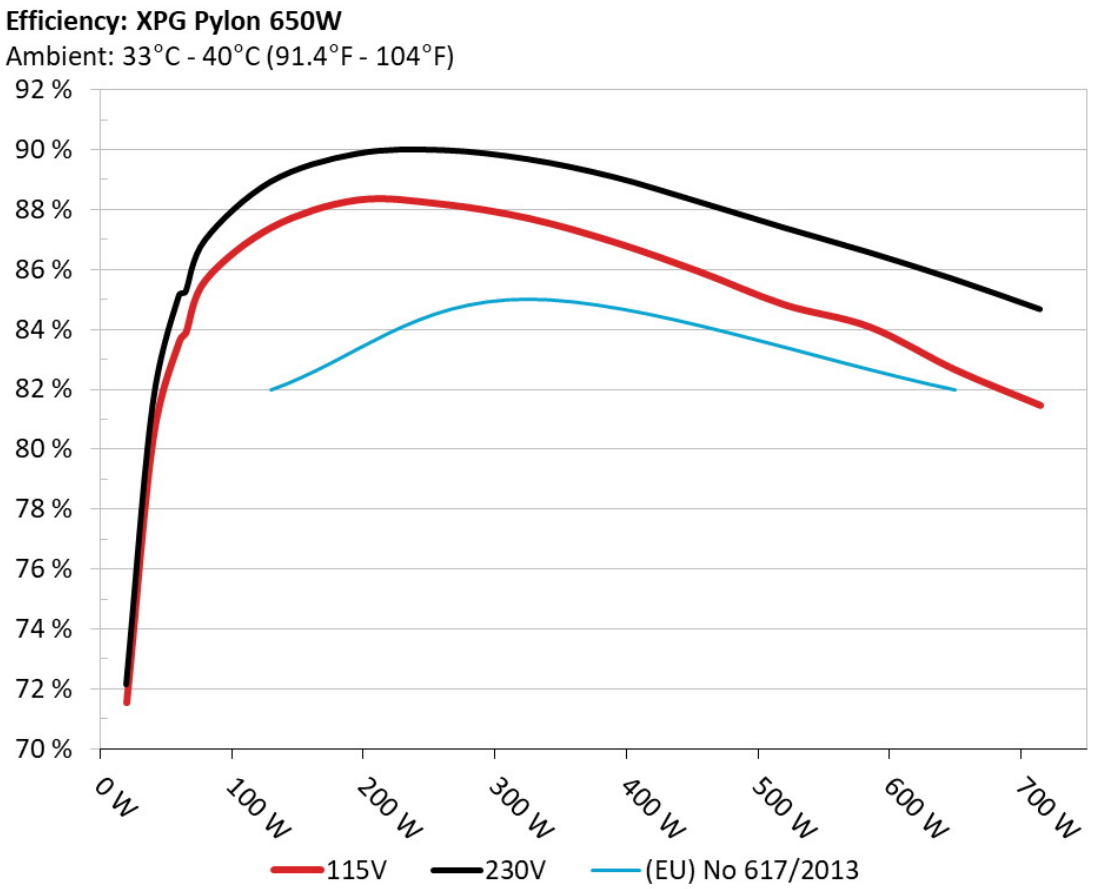
### INFO

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: the fan is stopped or too quiet to measure (the fan speed column says which); 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

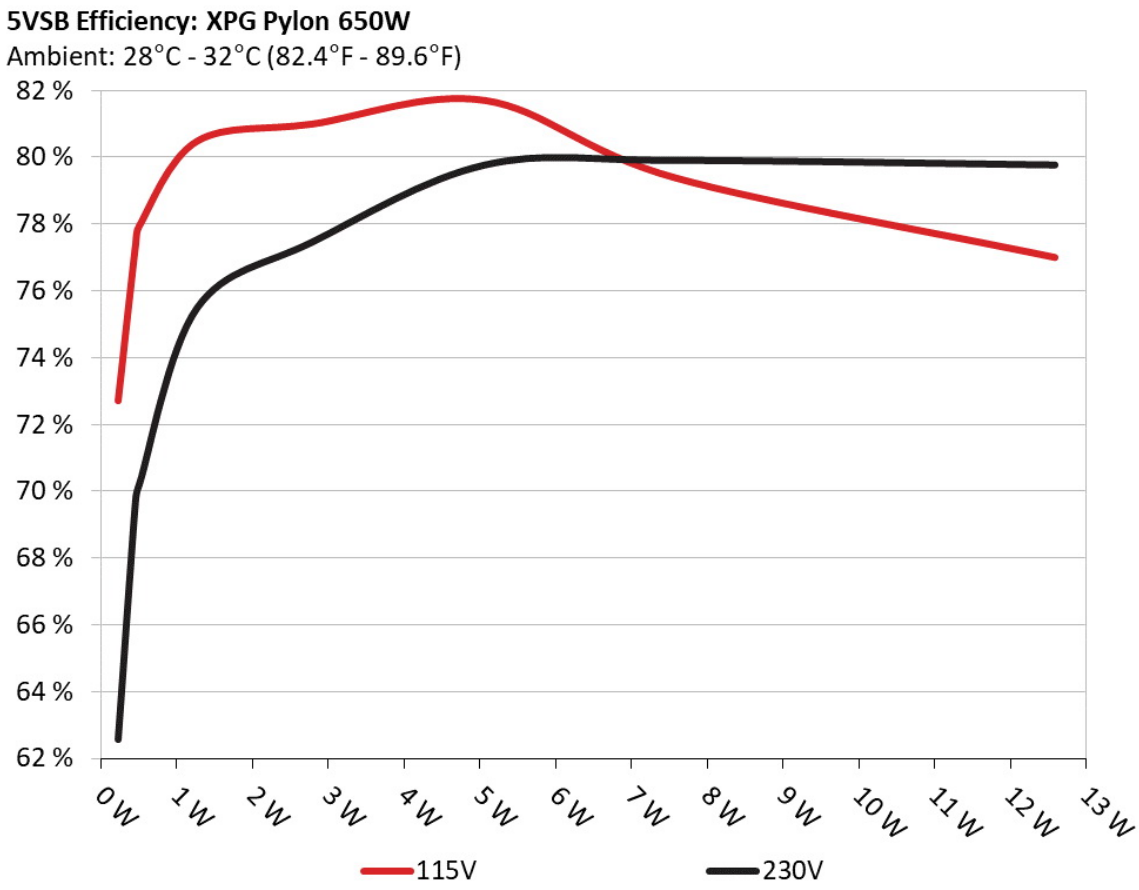
### Efficiency under high ambient temperature




**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 | 0.229 | 72.698% | 0.034 |
| | 5.088V | 0.315 | | 115.17V |
| 2 | 0.090A | 0.458 | 77.365% | 0.062 |
| | 5.087V | 0.592 | | 115.17V |
| 3 | 0.550A | 2.792 | 80.998% | 0.260 |
| | 5.078V | 3.447 | | 115.17V |
| 4 | 1.000A | 5.069 | 81.705% | 0.340 |
| | 5.069V | 6.204 | | 115.17V |
| 5 | 1.500A | 7.587 | 79.379% | 0.387 |
| | 5.058V | 9.558 | | 115.17V |
| 6 | 2.499A | 12.591 | 76.995% | 0.432 |
| | 5.038V | 16.353 | | 115.17V |

### 230V

| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
|---|---|---|---|---|
| 1 | 0.045A | 0.229 | 62.568% | 0.013 |
| | 5.088V | 0.366 | | 230.32V |
| 2 | 0.090A | 0.458 | 69.711% | 0.023 |
| | 5.087V | 0.657 | | 230.32V |
| 3 | 0.550A | 2.792 | 77.448% | 0.114 |
| | 5.078V | 3.605 | | 230.32V |
| 4 | 1.000A | 5.069 | 79.751% | 0.180 |
| | 5.069V | 6.356 | | 230.31V |
| 5 | 1.500A | 7.587 | 79.888% | 0.234 |
| | 5.058V | 9.497 | | 230.32V |
| 6 | 2.499A | 12.593 | 79.753% | 0.300 |
| | 5.039V | 15.790 | | 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 | 3.556A | 1.983A | 1.983A | 0.988A | 64.950 | 83.894% | 872 | 21.8 | 34.69°C | 0.956 |
| | 12.193V | 5.044V | 3.324V | 5.058V | 77.419 | | | | 38.96°C | 115.16V |
| 2 | 8.137A | 2.976A | 2.981A | 1.189A | 130.006 | 87.405% | 876 | 21.7 | 35.60°C | 0.976 |
| | 12.179V | 5.042V | 3.321V | 5.046V | 148.739 | | | | 40.54°C | 115.15V |
| 3 | 13.065A | 3.473A | 3.480A | 1.390A | 195.002 | 88.319% | 881 | 22.0 | 36.42°C | 0.984 |
| | 12.166V | 5.040V | 3.319V | 5.035V | 220.794 | | | | 41.84°C | 115.15V |
| 4 | 18.004A | 3.970A | 3.980A | 1.592A | 260.003 | 88.182% | 884 | 22.5 | 36.60°C | 0.987 |
| | 12.153V | 5.038V | 3.317V | 5.024V | 294.848 | | | | 43.29°C | 115.15V |
| 5 | 22.613A | 4.966A | 4.979A | 1.796A | 325.033 | 87.709% | 888 | 23.1 | 37.30°C | 0.990 |
| | 12.140V | 5.036V | 3.314V | 5.013V | 370.582 | | | | 45.07°C | 115.15V |
| 6 | 27.173A | 5.959A | 5.978A | 2.000A | 389.279 | 86.930% | 892 | 22.9 | 38.33°C | 0.991 |
| | 12.125V | 5.036V | 3.312V | 4.999V | 447.807 | | | | 46.96°C | 115.15V |
| 7 | 31.826A | 6.955A | 6.979A | 2.205A | 454.594 | 85.935% | 1091 | 28.0 | 38.98°C | 0.992 |
| | 12.112V | 5.035V | 3.310V | 4.988V | 529.000 | | | | 47.97°C | 115.14V |
| 8 | 36.486A | 7.953A | 7.980A | 2.411A | 519.852 | 84.823% | 1466 | 36.4 | 39.59°C | 0.993 |
| | 12.099V | 5.032V | 3.307V | 4.976V | 612.870 | | | | 49.50°C | 115.14V |
| 9 | 41.540A | 8.452A | 8.469A | 2.412A | 584.610 | 84.084% | 1625 | 38.7 | 39.63°C | 0.993 |
| | 12.088V | 5.027V | 3.305V | 4.973V | 695.270 | | | | 50.15°C | 115.12V |
| 10 | 46.571A | 8.951A | 8.990A | 2.519A | 649.384 | 82.656% | 2343 | 46.5 | 40.06°C | 0.994 |
| | 12.072V | 5.027V | 3.302V | 4.961V | 785.647 | | | | 51.82°C | 115.11V |
| 11 | 51.998A | 8.955A | 8.997A | 2.522A | 714.228 | 81.467% | 2343 | 46.5 | 40.19°C | 0.994 |
| | 12.059V | 5.025V | 3.300V | 4.954V | 876.703 | | | | 52.89°C | 115.10V |
| CL1 | 0.116A | 12.996A | 12.996A | 0.000A | 110.033 | 80.722% | 903 | 22.8 | 37.77°C | 0.974 |
| | 12.176V | 5.043V | 3.315V | 5.056V | 136.311 | | | | 45.99°C | 115.15V |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CL2 | 53.980A | 1.001A | 1.000A | 1.000A | 665.156 | 83.185% | 2223 | 46.1 | 40.88°C | 0.994 |
| | 12.075V | 5.032V | 3.309V | 5.001V | 799.609 | | | | 52.46°C | 115.10V |

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 | 3.556A | 1.983A | 1.983A | 0.988A | 64.949 | 85.249% | 871 | 21.8 | 34.94°C | 0.855 |
| | 12.193V | 5.044V | 3.324V | 5.058V | 76.187 | | | | 39.41°C | 230.32V |
| 2 | 8.137A | 2.976A | 2.981A | 1.189A | 130.006 | 88.942% | 877 | 21.8 | 35.60°C | 0.932 |
| | 12.179V | 5.041V | 3.322V | 5.046V | 146.170 | | | | 40.83°C | 230.32V |
| 3 | 13.065A | 3.473A | 3.480A | 1.390A | 195.000 | 89.869% | 883 | 22.1 | 36.80°C | 0.957 |
| | 12.166V | 5.040V | 3.319V | 5.035V | 216.983 | | | | 42.51°C | 230.32V |
| 4 | 18.002A | 3.970A | 3.980A | 1.592A | 259.999 | 89.992% | 886 | 22.7 | 37.37°C | 0.969 |
| | 12.154V | 5.038V | 3.317V | 5.025V | 288.914 | | | | 43.67°C | 230.32V |
| 5 | 22.613A | 4.965A | 4.981A | 1.795A | 325.031 | 89.690% | 887 | 22.9 | 37.59°C | 0.976 |
| | 12.140V | 5.036V | 3.314V | 5.013V | 362.392 | | | | 44.86°C | 230.32V |
| 6 | 27.166A | 5.958A | 5.978A | 2.000A | 389.227 | 89.107% | 892 | 22.9 | 38.09°C | 0.980 |
| | 12.126V | 5.036V | 3.313V | 5.001V | 436.807 | | | | 46.21°C | 230.32V |
| 7 | 31.822A | 6.954A | 6.981A | 2.204A | 454.545 | 88.271% | 1104 | 28.4 | 38.83°C | 0.983 |
| | 12.112V | 5.035V | 3.310V | 4.989V | 514.943 | | | | 47.52°C | 230.32V |
| 8 | 36.488A | 7.952A | 7.981A | 2.411A | 519.837 | 87.401% | 1494 | 37.1 | 38.98°C | 0.985 |
| | 12.098V | 5.032V | 3.307V | 4.976V | 594.774 | | | | 48.79°C | 230.32V |
| 9 | 41.565A | 8.450A | 8.470A | 2.414A | 584.746 | 86.574% | 1846 | 41.6 | 39.05°C | 0.987 |
| | 12.084V | 5.029V | 3.304V | 4.969V | 675.433 | | | | 49.63°C | 230.31V |
| 10 | 46.580A | 8.953A | 8.993A | 2.520A | 649.459 | 85.675% | 2196 | 45.9 | 39.79°C | 0.988 |
| | 12.071V | 5.026V | 3.302V | 4.960V | 758.051 | | | | 51.27°C | 230.31V |
| 11 | 52.012A | 8.956A | 8.997A | 2.524A | 714.294 | 84.682% | 2343 | 46.5 | 40.40°C | 0.989 |
| | 12.057V | 5.024V | 3.300V | 4.953V | 843.497 | | | | 52.99°C | 230.31V |
| CL1 | 0.116A | 12.998A | 12.998A | 0.000A | 110.036 | 81.612% | 905 | 22.8 | 37.03°C | 0.925 |
| | 12.174V | 5.043V | 3.314V | 5.054V | 134.829 | | | | 44.00°C | 230.32V |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CL2 | 53.986A | 1.001A | 0.999A | 1.000A | 665.060 | 86.260% | 2342 | 46.5 | 39.83°C | 0.988 |
| | 12.072V | 5.032V | 3.308V | 4.999V | 770.995 | | | | 51.80°C | 230.31V |

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 | 1.215A | 0.495A | 0.497A | 0.197A | 19.979 | 71.543% | 866 | 22.0 | 0.882 |
| | 12.202V | 5.048V | 3.328V | 5.080V | 27.926 | | | | 115.15V |
| 2 | 2.432A | 0.991A | 0.993A | 0.394A | 39.968 | 80.347% | 864 | 22.1 | 0.936 |
| | 12.198V | 5.046V | 3.326V | 5.074V | 49.744 | | | | 115.15V |
| 3 | 3.654A | 1.486A | 1.488A | 0.592A | 60.000 | 83.610% | 867 | 21.9 | 0.953 |
| | 12.194V | 5.044V | 3.325V | 5.068V | 71.762 | | | | 115.15V |
| 4 | 4.869A | 1.983A | 1.985A | 0.790A | 79.951 | 85.653% | 872 | 21.8 | 0.966 |
| | 12.190V | 5.044V | 3.324V | 5.061V | 93.343 | | | | 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 | 1.215A | 0.495A | 0.496A | 0.197A | 19.977 | 72.158% | 873 | 21.8 | 0.603 |
| | 12.202V | 5.048V | 3.328V | 5.080V | 27.685 | | | | 230.32V |
| 2 | 2.432A | 0.991A | 0.992A | 0.394A | 39.966 | 81.470% | 872 | 21.8 | 0.764 |
| | 12.198V | 5.047V | 3.326V | 5.074V | 49.056 | | | | 230.32V |
| 3 | 3.653A | 1.487A | 1.489A | 0.592A | 59.998 | 85.141% | 871 | 21.8 | 0.841 |
| | 12.194V | 5.045V | 3.325V | 5.067V | 70.469 | | | | 230.32V |
| 4 | 4.869A | 1.982A | 1.986A | 0.790A | 79.949 | 86.998% | 872 | 21.8 | 0.881 |
| | 12.190V | 5.044V | 3.324V | 5.060V | 91.898 | | | | 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 | 9.00mV | 39.50mV | 11.60mV | 12.10mV | Pass |
| 20% Load | 11.50mV | 15.00mV | 10.50mV | 8.00mV | Pass |
| 30% Load | 14.90mV | 45.10mV | 14.60mV | 15.30mV | Pass |
| 40% Load | 11.20mV | 13.90mV | 10.90mV | 8.20mV | Pass |
| 50% Load | 14.70mV | 19.90mV | 14.00mV | 9.30mV | Pass |
| 60% Load | 20.60mV | 23.30mV | 17.00mV | 11.30mV | Pass |
| 70% Load | 21.70mV | 11.50mV | 11.10mV | 12.70mV | Pass |
| 80% Load | 27.20mV | 14.40mV | 14.60mV | 13.40mV | Pass |
| 90% Load | 34.20mV | 14.10mV | 17.00mV | 15.10mV | Pass |
| 100% Load | 56.70mV | 18.40mV | 19.50mV | 14.90mV | Pass |
| 110% Load | 74.90mV | 20.80mV | 21.80mV | 16.80mV | Pass |
| Crossload1 | 14.50mV | 15.00mV | 18.80mV | 8.00mV | Pass |
| Crossload2 | 61.00mV | 36.80mV | 26.20mV | 12.90mV | Pass |

The results above are not used in the certification process

### 230V

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 10% Load | 8.30mV | 9.60mV | 10.20mV | 7.80mV | Pass |
| 20% Load | 11.70mV | 14.40mV | 11.30mV | 8.30mV | Pass |
| 30% Load | 12.20mV | 16.20mV | 11.90mV | 10.40mV | Pass |
| 40% Load | 11.30mV | 15.50mV | 13.60mV | 9.10mV | Pass |
| 50% Load | 13.70mV | 49.00mV | 14.40mV | 13.60mV | Pass |
| 60% Load | 16.90mV | 22.60mV | 17.70mV | 11.30mV | Pass |
| 70% Load | 20.10mV | 47.60mV | 21.10mV | 15.20mV | Pass |
| 80% Load | 25.40mV | 13.00mV | 15.60mV | 13.70mV | Pass |

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 90% Load | 34.40mV | 14.90mV | 15.30mV | 14.30mV | Pass |
| 100% Load | 52.50mV | 18.80mV | 18.80mV | 15.60mV | Pass |
| 110% Load | 68.30mV | 20.00mV | 20.60mV | 16.70mV | Pass |
| Crossload1 | 14.20mV | 15.00mV | 17.70mV | 7.60mV | Pass |
| Crossload2 | 59.30mV | 14.20mV | 15.00mV | 13.50mV | Pass |

The results above are not used in the certification process

## XPG Pylon 650W




Top side




Power specifications label

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CYBENETICS LTD Syrou 6, Latsia, 2231, Nicosia Cyprus

www.cybenetics.com - info@cybenetics.com