# Lian Li EG1000Gv2

Serial Number G9PEG1000CBY263500009

Lab ID LL10003422

Certification ID 263422

Test Result Report ID: 26PS3422A

Certificate Issue Date: Oct 13, 2026

Scheme: ETA-EMI PSU

115V 230V

Scheme: LAMBDA PSU

115V 230V

Outside Validation Scope

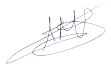
# General Information

## 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 | Lian Li |
| Model | EG1000Gv2 |
| OEM/ODM | Helly Technology (Guangzhou) Co., Ltd. |
| Serial Number | G9PEG1000CBY263500009 |
| 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 86 x 182 mm |
| Weight | 1.59 kg (3.50 lb) |
| Cooling | 120mm Fluid Dynamic Bearing Fan (D12SH-12) |
| Semi-Passive Operation | ✓ (selectable) |
| Cybenetics Testing Information | |
| Lab ID | LL10003422 |
| Date of receipt | Sep 8, 2026 |
| Testing Date | Sep 17, 2026 |
| Report Issued Date | Oct 13, 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** | In Cable Capacitors |
| ATX connector 20+4 pin (600mm) | 1 | 1 | 16-22AWG | No |
| 4+4 pin EPS12V (700mm) | 1 | 1 | 18AWG | No |
| 8 pin EPS12V (700mm) | 1 | 1 | 18AWG | No |
| 6+2 pin PCIe (550mm) | 3 | 3 | 18AWG | No |
| 12+4 pin PCIe (600mm) (600W) | 1 | 1 | 16-26AWG | No |
| SATA (405mm+150mm+150mm) / 4-pin Molex (+150mm) | 1 | 4 | 18AWG | No |
| SATA (305mm+15mm+15mm+15mm) | 1 | 4 | 18AWG | No |
| SATA Y cable, 2 branches (380mm+150mm each) | 1 | 4 | 18AWG | No |

| **Modular Cables** | | | | |
|---|---|---|---|---|
| USB3.0 + USB2.0 / USB 9-pin (345mm) | | 1+1/1 | - | No |
| USB2.0 Header (470mm) | 1 | 1 | 28AWG | No |
| 4-pin PWM (555mm) | 1 | 1 | 28AWG | No |
| AC Power Cord (1380mm) - C13 coupler | 1 | 1 | 3G 1.0 mm² | - |

## 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 | 100 | | 996 | 15 | 3.6 |
| Total Max. Power (W) | | 1000 | | | | |

## Parts Description

| **General Data** | |
|---|---|
| Manufacturer (OEM) | Helly Technology |
| PCB Type | Double-Sided |
| **Primary Side** | |
| Transient Filter | 4x Y caps, 2x X caps, 2x CM chokes, 1x MOV |
| Inrush Protection | 1x Cantherm MF73T-1 20/7 (20 ohm) & Relay |
| Bridge Rectifier(s) | 2x GBU1510 (1000V, 15A @ 100°C) |
| APFC MOSFETs | 2x Oriental Semiconductor OSG60R099FT3F (600V, 19A @ 100°C, Rds(on): 0.099Ohm) |
| APFC Boost Diode | 1x Global Power G3S06510A (650V, 10A @ 155°C) |

| | |
|---|---|
| Bulk Cap(s) | 2x Nichicon (420V,390uF, 2,000h @ 105°C, GG) |
| Main Switchers | 4x CR Micro CS20N50FF (500V, 12.5A @ 100°C, Rds(on): 0.20Ohm) |
| Resonant Controller | Champion CM6901T6X |
| APFC Controller | Champion CM6500UNX |
| Topology | Primary side: APFC, Full-Bridge & LLC Resonant converter<br>Secondary side: Synchronous Rectification & DC-DC converters |
| **Secondary Side** | |
| +12V MOSFETs | 6x PIP Semiconductor SPTJ04R014E |
| 5V & 3.3V | DC-DC Converters: 2x XSEMI XP3NA3R4MT (30V, 46A @ 100°C, Rds(on): 3.4mOhm) &<br>2x Rectron Semiconductor RMN3N5R0DF (30V, 19.7A @ 70°C, Rds(on): 5mOhm)<br>PWM Controller(s): 1x uPi semi uP3861 |
| Filtering Capacitors | Electrolytic:<br>4x Ltec (2-5,000h @105°C, LXY)<br>1x Ltec (4-7,000h @105°C, LZG)<br>1x Teapo (5,000h @105°C, TX)<br>Polymer:<br>5x Beryl, 26x Chengx |
| Supervisor IC | Weltrend WT7527RA (OVD, PGO, UVD, OCD) |
| Fan Model | Yate Loon D12SH-12 (120mm, 12V, 0.30A, Fluid Dynamic Bearing Fan) |
| **5VSB** | |
| Rectifier | 1x Dongke Semiconductor DK5V60R20S |
| Standby PWM Controller | Excelliance MOS 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) | 89.394% |
| Average Noise Output (>1450 Load Combinations) | 25.66dBA |
| Average PF (>1450 Load Combinations) | 0.982 |
| Efficiency With 10W (≤500W) or 2% (>500W) Load | 69.140% |
| Standby Power Consumption | 0.0489W |
| Non-Accredited | |
| 12V Ripple (Full Load) | 43.18mV |
| 5V Ripple (Full Load) | 28.40mV |
| 3.3V Ripple (Full Load) | 23.48mV |
| 5VSB Ripple (Full Load) | 28.85mV |
| 12V Load Regulation | 0.58% |
| 5V Load Regulation | 0.68% |
| 3.3V Load Regulation | 0.82% |
| 5VSB Load Regulation | 3.32% |
| Inrush Current | 15.550A |

### 230V

| | |
|---|---|
| Accredited | |
| Average Efficiency (>1450 load combinations) | 91.393% |
| Average Noise Output (>1450 Load Combinations) | 25.99dBA |
| Average PF (>1450 Load Combinations) | 0.945 |
| Efficiency With 10W (≤500W) or 2% (>500W) Load | 69.251% |
| Standby Power Consumption | 0.1220W |
| Non-Accredited | |
| 12V Ripple (Full Load) | 44.61mV |
| 5V Ripple (Full Load) | 28.92mV |
| 3.3V Ripple (Full Load) | 25.47mV |

| | | |
|---|---|---|
| 5VSB Ripple (Full Load) | | 29.62mV |
| 12V Load Regulation | | 0.49% |
| 5V Load Regulation | | 0.58% |
| 3.3V Load Regulation | | 0.85% |
| 5VSB Load Regulation | | 3.40% |
| Inrush Current | | 24.850A |
| 12V Transient Response (200%) | | 11.38V |
| 5V Transient Response (200%) | | 4.885V |
| 3.3V Transient Response (200%) | | 3.170V |
| 5VSB Transient Response (200%) | | 4.899V |
| Hold-Up Time & PWR_OK Signal | | 20.80ms |
| AC Loss to PWR_OK Hold Up Time | | 17.80ms |
| PWR_OK Inactive to DC Loss Delay | | 3.00ms |
| PSU Timings: T1 (20% / 100%) | 82.0ms | 82.0ms |
| PSU Timings: T3 (20% / 100%) | 122.0ms | 125.0ms |
| 12V OCP (29.3°C / 42.2°C) | 99.600A (120.00%), 12.112V — shut down | 98.900A (119.16%), 12.104V — shut down |
| 5V OCP (29.3°C / 42.2°C) | 29.200A (146.00%), 4.985V — shut down | 29.200A (146.00%), 4.983V — shut down |
| 3.3V OCP (29.3°C / 42.2°C) | 28.400A (142.00%), 3.281V — shut down | 28.200A (141.00%), 3.278V — shut down |
| 5VSB OCP (29.3°C / 42.2°C) | 4.100A (136.67%), 4.998V — shut down | 4.100A (136.67%), 4.994V — shut down |
| OPP (30.72°C / 42.44°C) | 129.11% | 119.00% |

## Hold-Up Time & PWR_OK Signal

| | |
|---|---|
| Hold-Up Time (ms) | 20.8 |
| AC Loss to PWR_OK Hold Up Time (ms) | 17.8 |
| PWR_OK Inactive to DC Loss Delay (ms) | 3.0 |

# Vampire Power

## Tables

### 115V

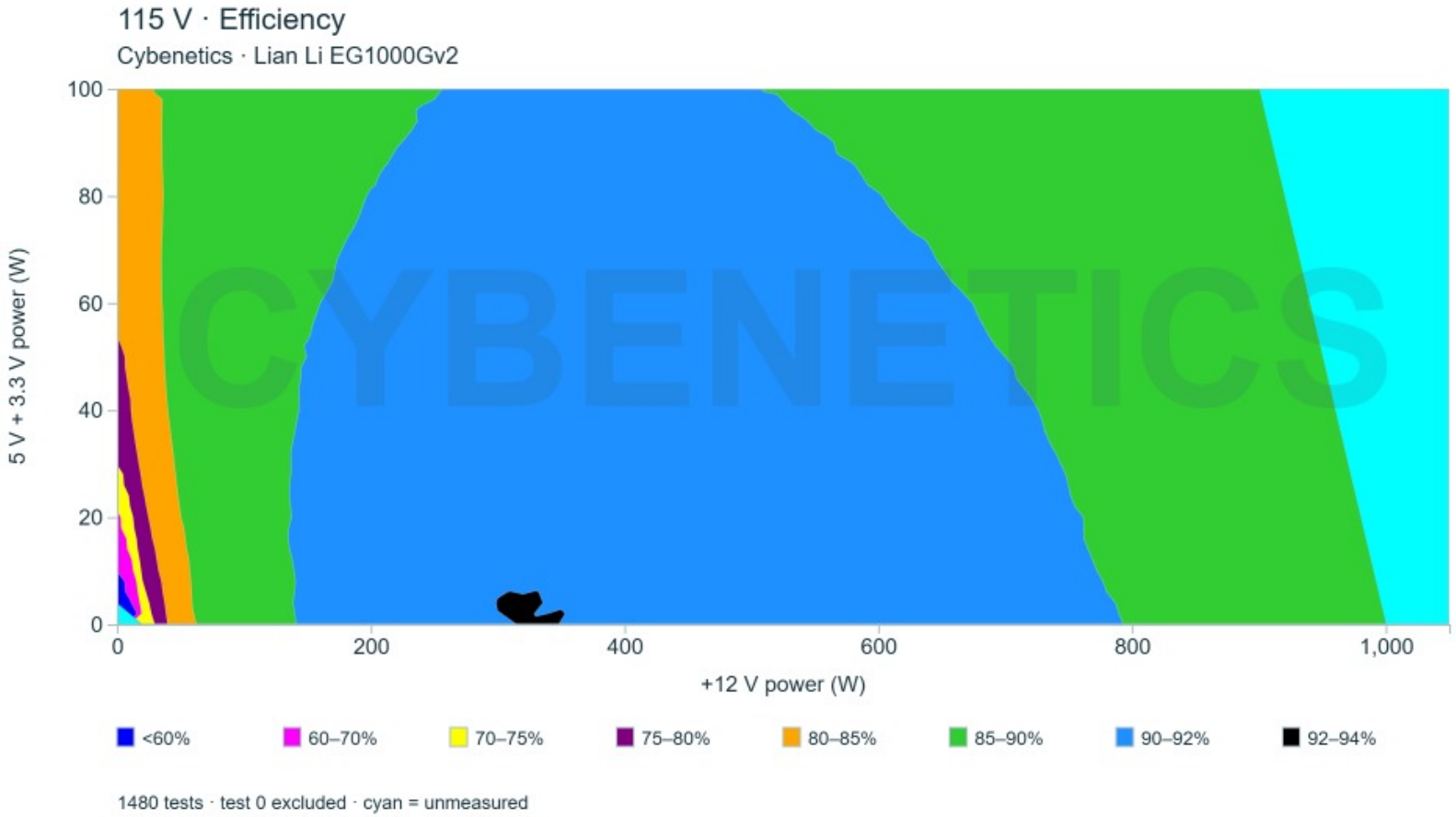
| Detailed Results | | | | | | |
|---|---|---|---|---|---|---|
| | Average | Min | Limit Min | Max | Limit Max | Result |
| Mains Voltage RMS: | 114.96 V | 114.94 V | 113.85 V | 114.98 V | 116.15 V | PASS |
| Mains Frequency: | 60.00 Hz | 59.99 Hz | 59.40 Hz | 60.01 Hz | 60.60 Hz | PASS |
| Mains Voltage CF: | 1.416 | 1.415 | 1.340 | 1.416 | 1.490 | PASS |
| Mains Voltage THD: | 0.13 % | 0.09 % | N/A | 0.17 % | 2.00 % | PASS |
| Real Power: | 0.049 W | 0.005 W | N/A | 0.084 W | N/A | N/A |
| Apparent Power: | 6.763 W | 6.730 W | N/A | 6.792 W | N/A | N/A |
| Power Factor: | 0.009 | N/A | N/A | N/A | N/A | N/A |

### 230V

| Detailed Results | | | | | | |
|---|---|---|---|---|---|---|
| | Average | Min | Limit Min | Max | Limit Max | Result |
| Mains Voltage RMS: | 229.97 V | 229.93 V | 227.70 V | 229.96 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: | 0.122 W | 0.085 W | N/A | 0.170 W | N/A | N/A |
| Apparent Power: | 21.556 W | 21.521 W | N/A | 21.591 W | N/A | N/A |
| Power Factor: | 0.007 | N/A | N/A | N/A | N/A | N/A |

## Efficiency Graph

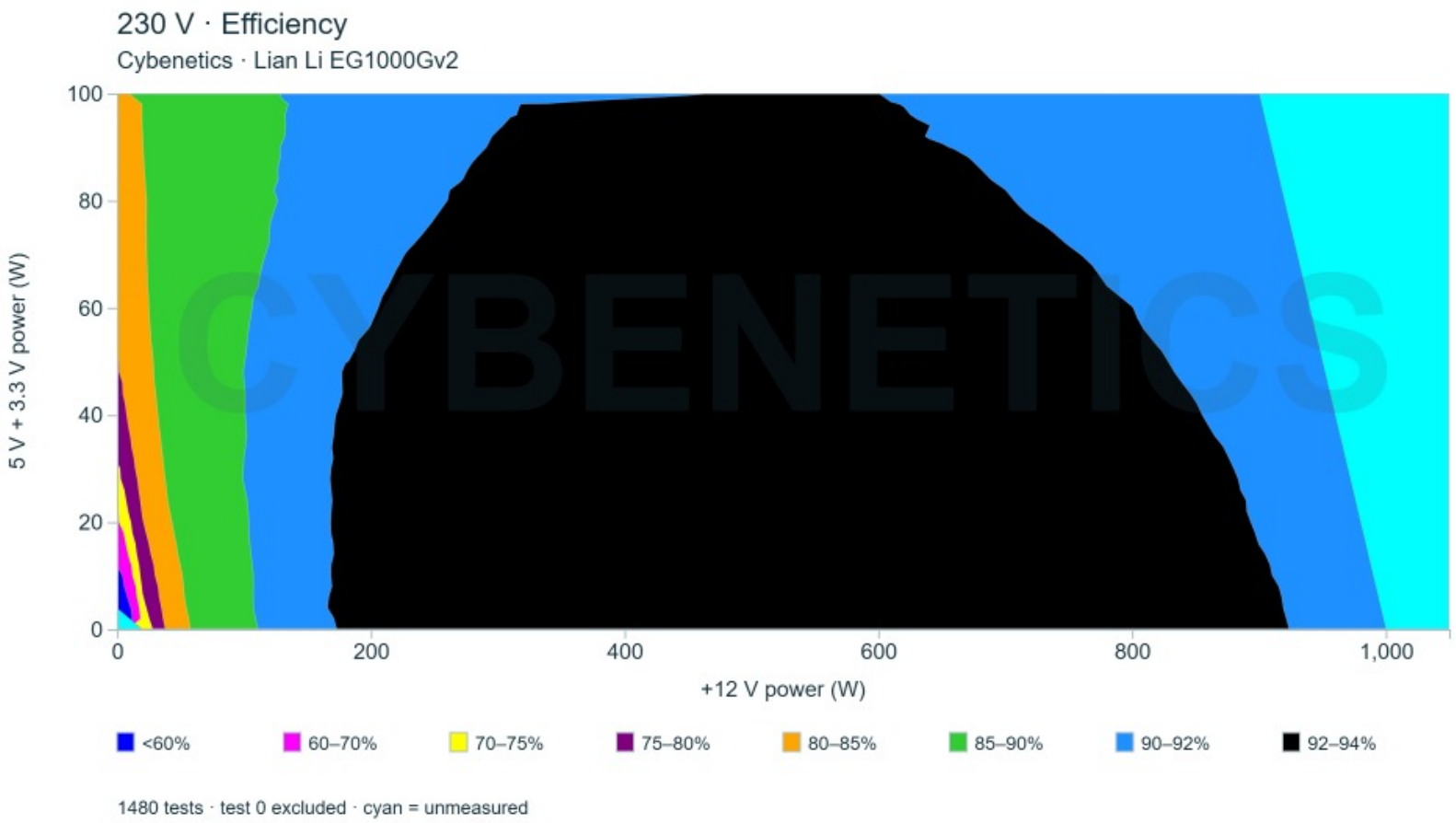
**115V**




**INFO**

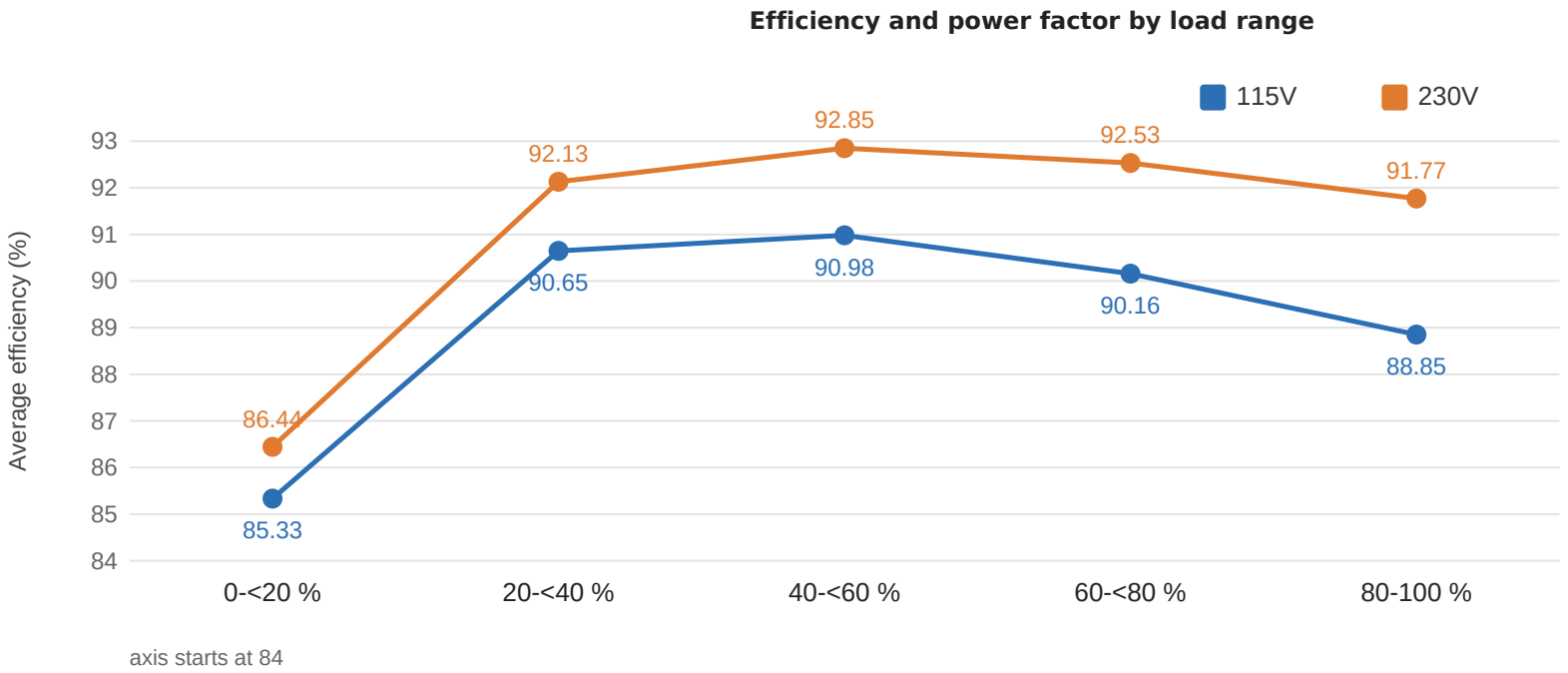
This graph depicts the PSU`s efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

**230V**

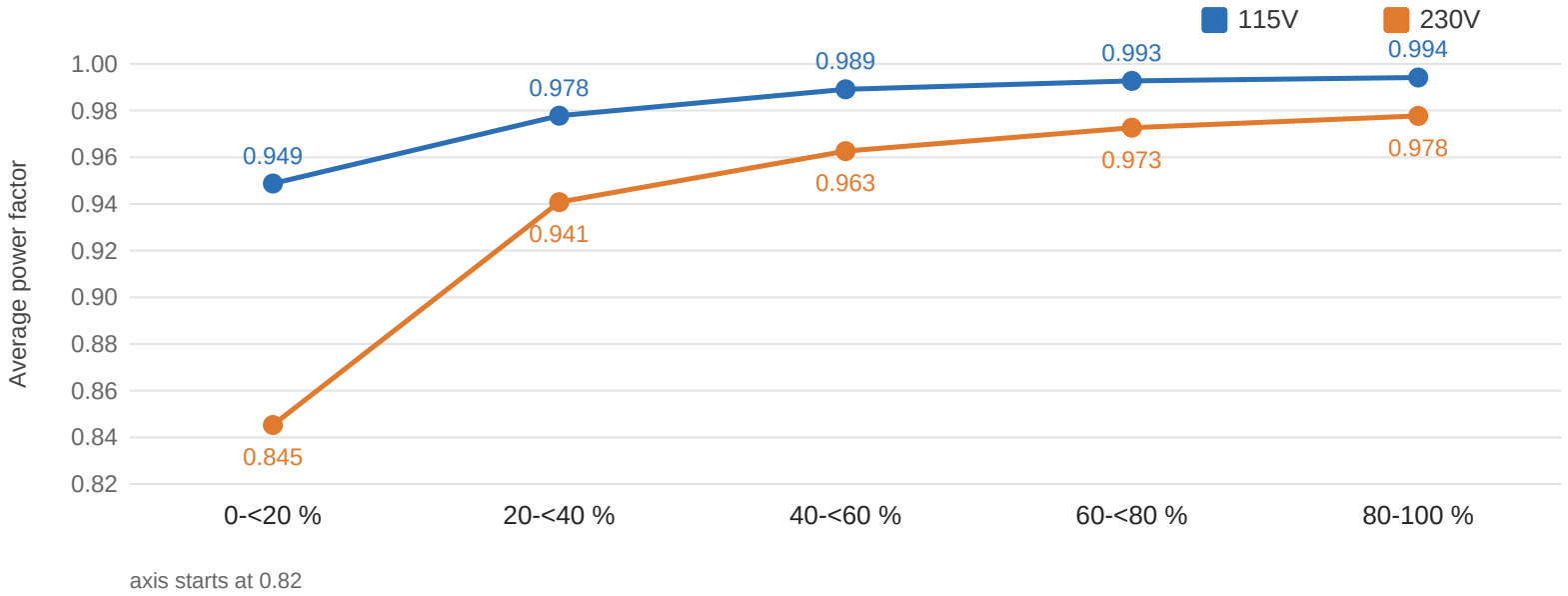



**INFO**

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




axis starts at 84




axis starts at 0.82

| Load range | Points | Efficiency 115V | Efficiency 230V | PF 115V | PF 230V |
|---|---|---|---|---|---|
| 0-<20 % | 233 / 233 | 85.33% | 86.44% | 0.949 | 0.845 |
| 20-<40 % | 310 / 310 | 90.65% | 92.13% | 0.978 | 0.941 |
| 40-<60 % | 310 / 310 | 90.98% | 92.85% | 0.989 | 0.963 |
| 60-<80 % | 310 / 310 | 90.16% | 92.53% | 0.993 | 0.973 |
| 80-100 % | 317 / 317 | 88.85% | 91.77% | 0.994 | 0.978 |
| 70-100 % (High-Load) | 472 / 472 | 89.18% | 91.97% | 0.994 | 0.977 |
| All (published average) | 1480 / 1480 | 89.39% | 91.39% | 0.982 | 0.945 |

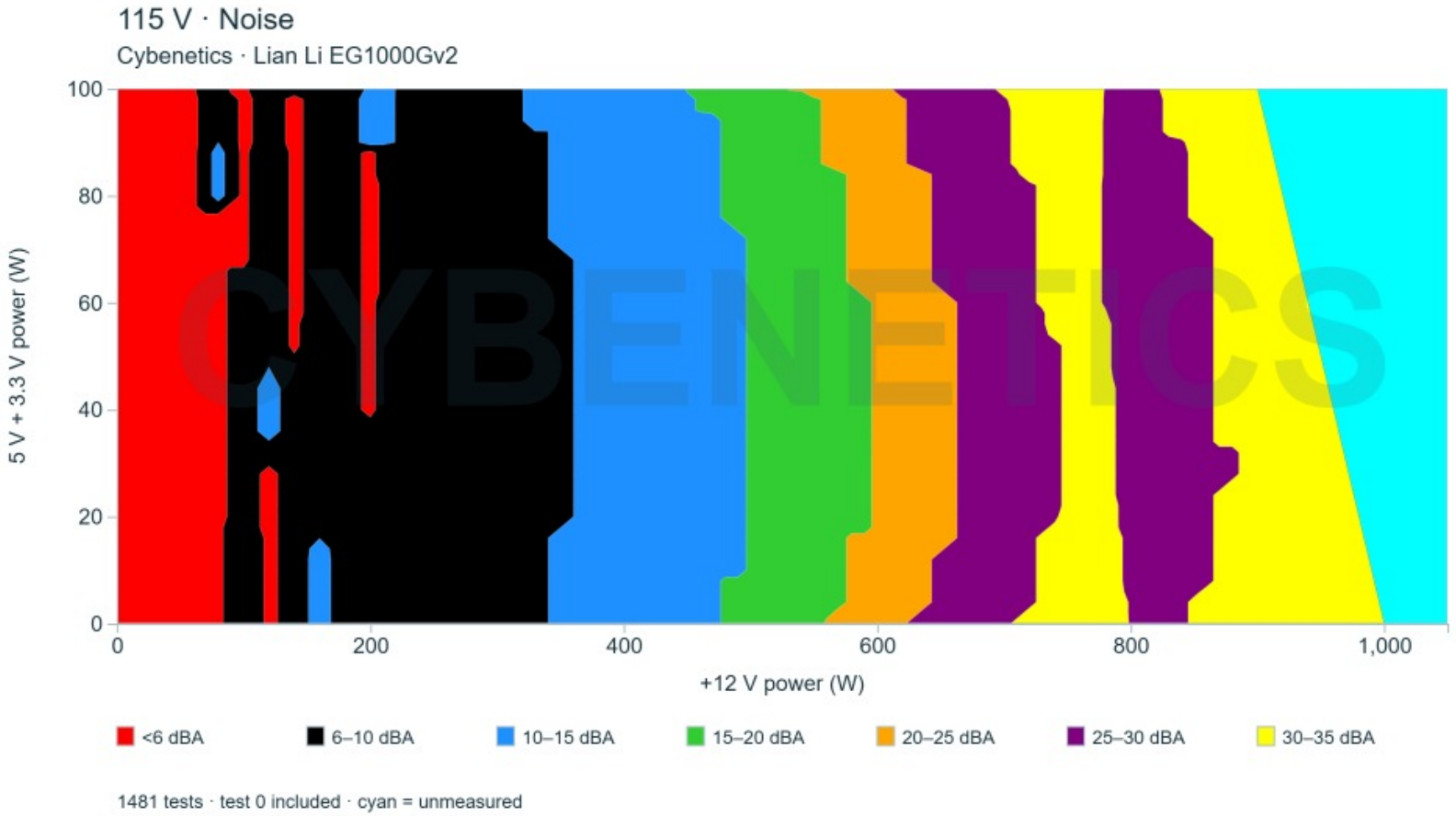
**INFO**

The average efficiency and power factor in five ranges of load. Calculated from the 1480 (115V) and 1480 (230V) load combinations of the certification sweep, the same data that ETA and LAMBDA use (test 0 excluded). Load is the total DC output as a share of the rated 1000 W. These are plain averages of the valid readings, as for the ETA rating, so the ranges combined give back the published averages.

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

## Noise Graph

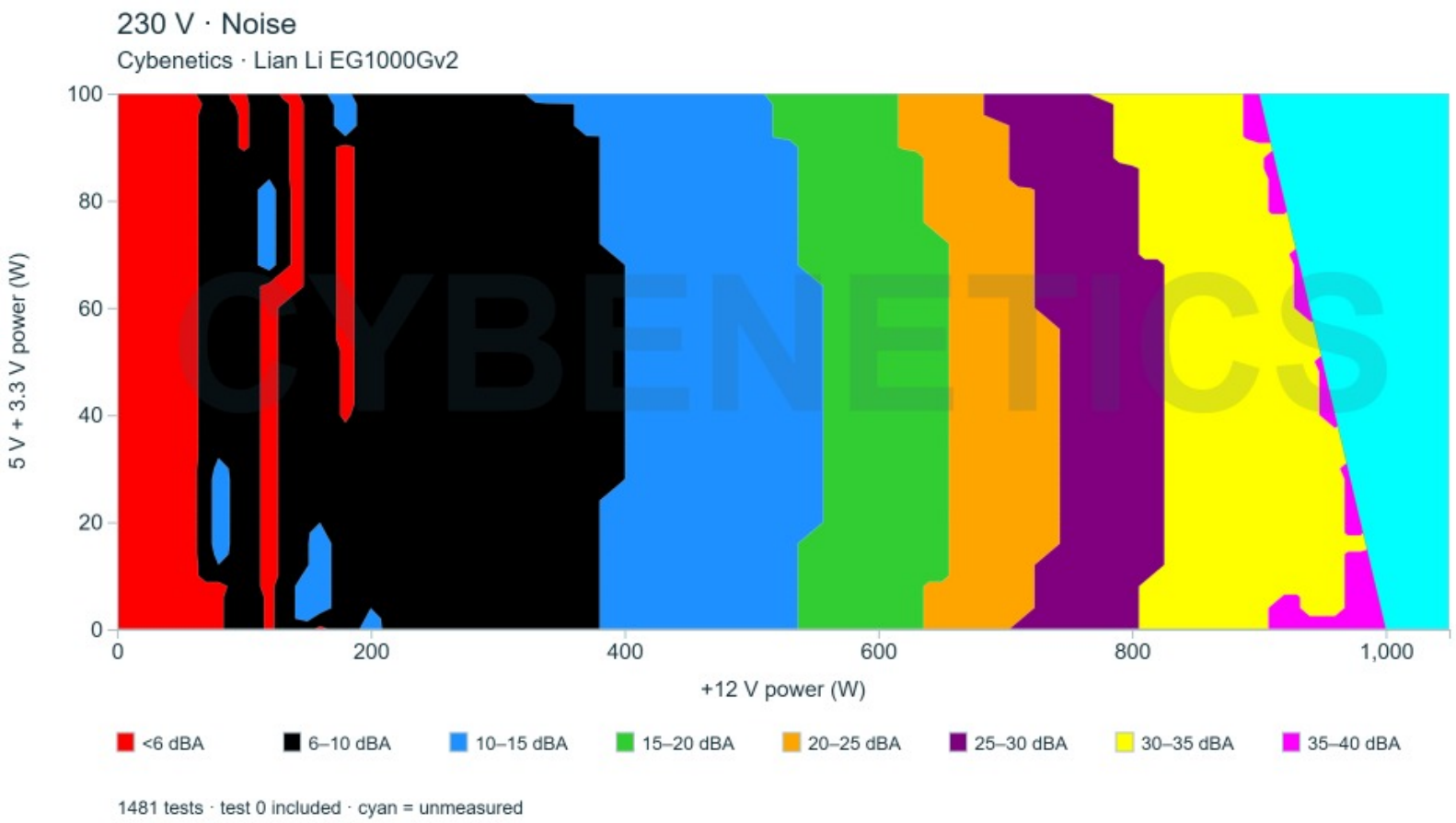
**115V**




**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

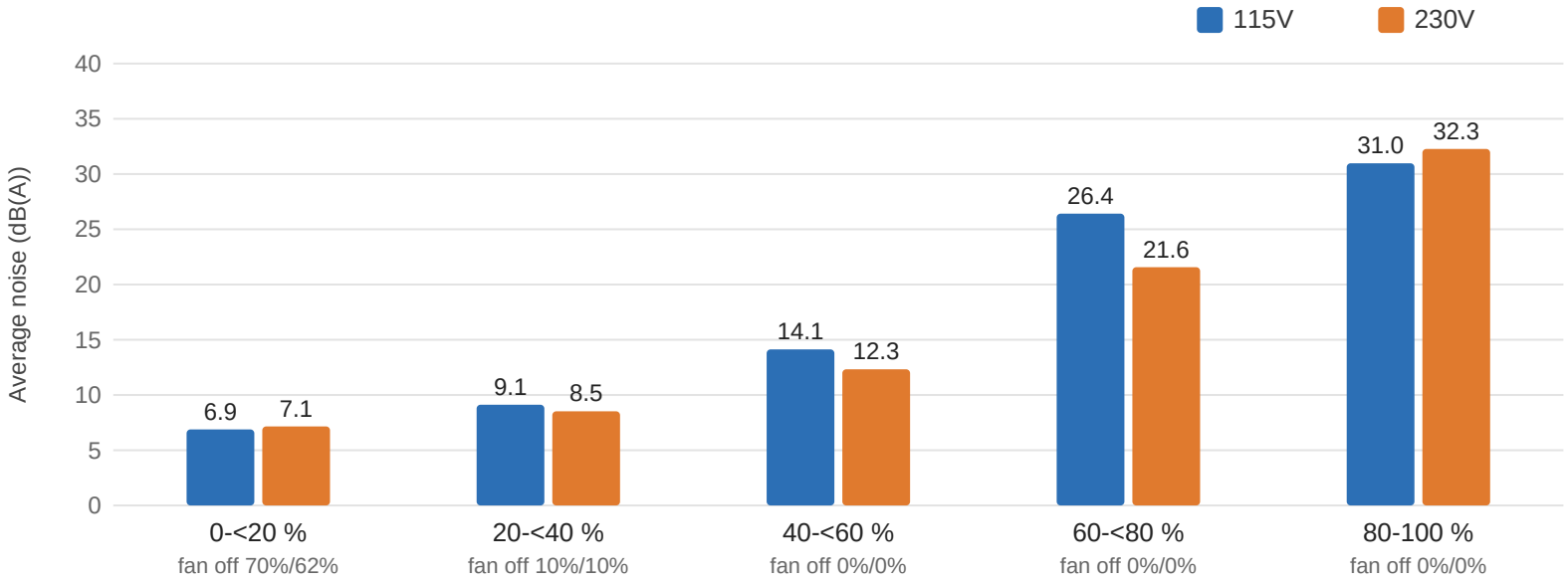
The PSU`s noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

## Noise by load range

**High-Load Index (70-100 % load)**

Noise **30.3 dB(A)** at 115V and **30.8 dB(A)** at 230V · loudest point 35.5 dB(A)

Efficiency 89.18% / 91.97% · power factor 0.994 / 0.977 (115V / 230V)




| Load range | Noise 115V<br>avg (loudest) | Noise 230V<br>avg (loudest) | Fan off<br>115V / 230V |
|---|---|---|---|
| 0-<20 % | 6.9 (11.7) | 7.1 (11.7) | 70% / 62% |
| 20-<40 % | 9.1 (11.7) | 8.5 (11.7) | 10% / 10% |
| 40-<60 % | 14.1 (22.0) | 12.3 (15.3) | 0% / 0% |
| 60-<80 % | 26.4 (33.8) | 21.6 (28.7) | 0% / 0% |
| 80-100 % | 31.0 (33.8) | 32.3 (35.5) | 0% / 0% |
| 70-100 % (High-Load) | 30.3 (33.8) | 30.8 (35.5) | 0% / 0% |
| All (published average) | 25.7 (33.8) | 26.0 (35.5) | 13% / 12% |

**INFO**

The average noise in five ranges of load, the share of points with the fan stopped (semi-passive operation), and the High-Load Index: the same figures for all points at 70 % of the rated output and above. Calculated from the 1480 (115V) and 1480 (230V) load combinations of the certification sweep, the same data that ETA and LAMBDA use (test 0 excluded). Load is the total DC output as a share of the rated 1000 W. Noise is averaged on the energy scale, as for LAMBDA, so the ranges combined give back the published average noise. Each load combination is held for about five seconds; the stabilized readings at fixed loads are under "Noise under high ambient temperature".

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

## 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) · 37.3 °C | 723 RPM · 10.8 dB(A) · 40.4 °C | fan starts (<6.0 → 10.8) |
| 20% | 0 RPM · <6.0 dB(A) · 33.2 °C | 752 RPM · 12.3 dB(A) · 40.7 °C | fan starts (<6.0 → 12.3) |
| 50% | 724 RPM · 10.8 dB(A) · 30.3 °C | 883 RPM · 16.6 dB(A) · 42.1 °C | **+5.8 dB(A)** |
| 100% | 1454 RPM · 31.8 dB(A) · 30.5 °C | 1870 RPM · 38.9 dB(A) · 45.3 °C | **+7.1 dB(A)** |

### 230V

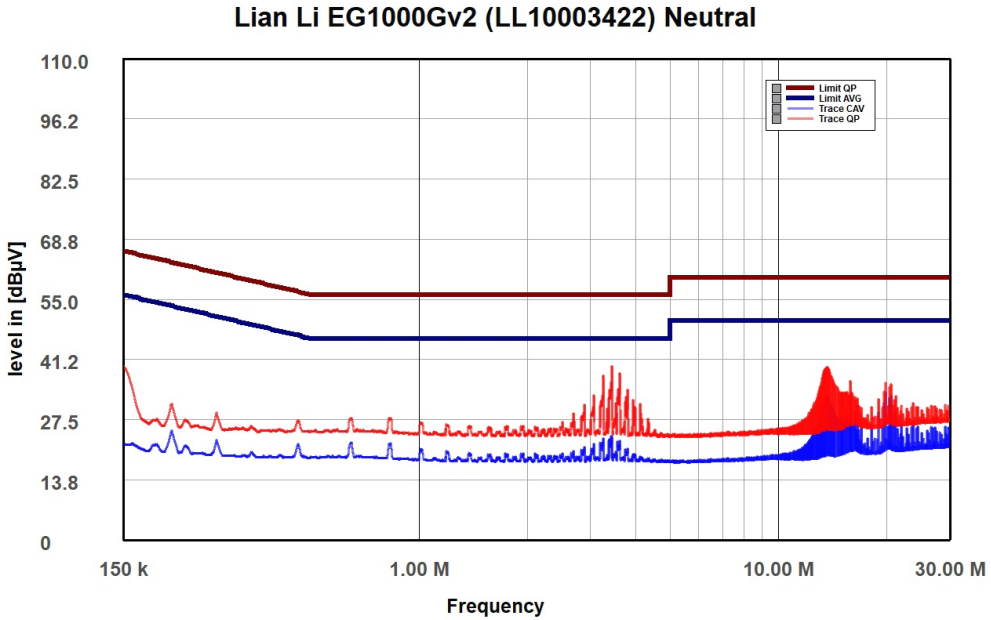
| Load | Normal ambient<br>fan · noise · intake | High ambient<br>fan · noise · intake | Noise change |
|---|---|---|---|
| 10% | 0 RPM · <6.0 dB(A) · 32.4 °C | 755 RPM · 12.3 dB(A) · 40.1 °C | fan starts (<6.0 → 12.3) |
| 20% | 0 RPM · <6.0 dB(A) · 34.2 °C | 781 RPM · 12.8 dB(A) · 40.6 °C | fan starts (<6.0 → 12.8) |
| 50% | 707 RPM · 10.0 dB(A) · 30.4 °C | 1111 RPM · 23.9 dB(A) · 42.1 °C | **+13.9 dB(A)** |
| 100% | 1401 RPM · 30.8 dB(A) · 30.3 °C | 1873 RPM · 39.2 dB(A) · 45.9 °C | **+8.4 dB(A)** |

### INFO

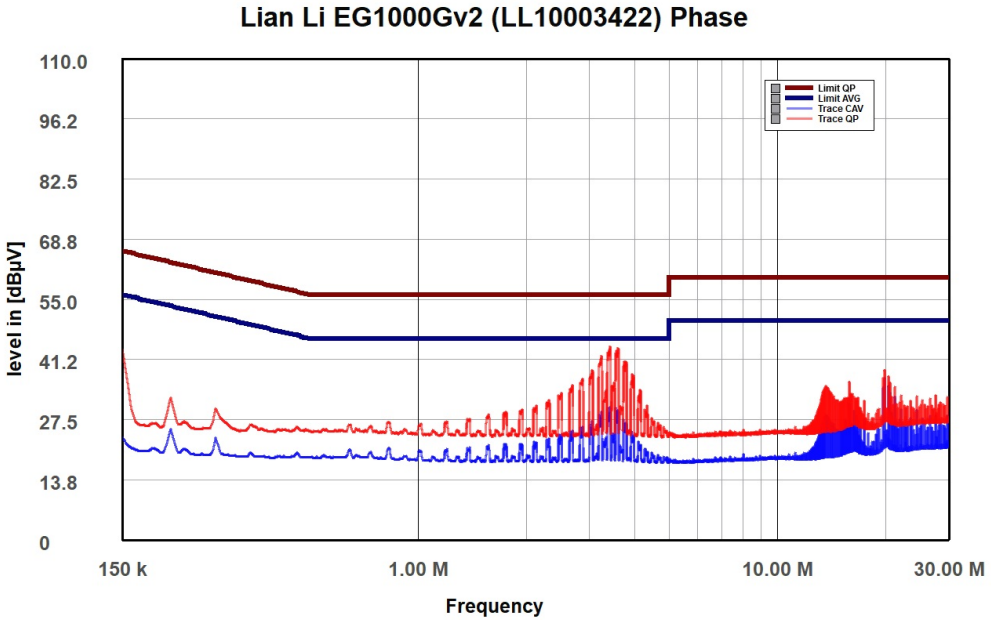
Fan speed, noise and the measured intake temperature at 10, 20, 50 and 100 % load, from the two load regulation tests: at normal ambient (about 30-32 °C) and at high ambient (about 40-47 °C). These are stabilized readings at fixed loads, not averages over the certification sweep, so they are indicative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

## Conducted Emissions EN 55032 & CISPR 32



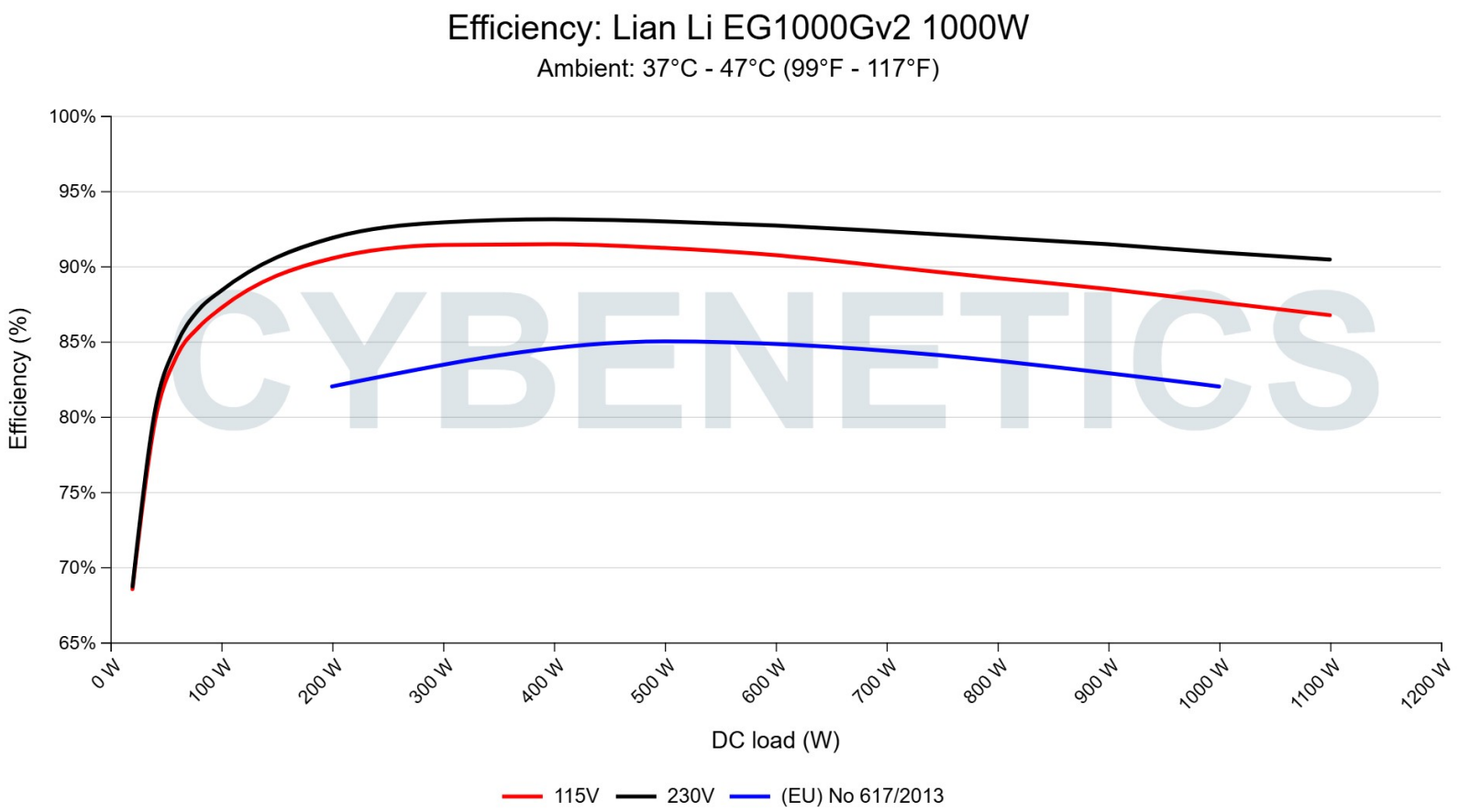

NEUTRAL




PHASE

## Indicative Performance

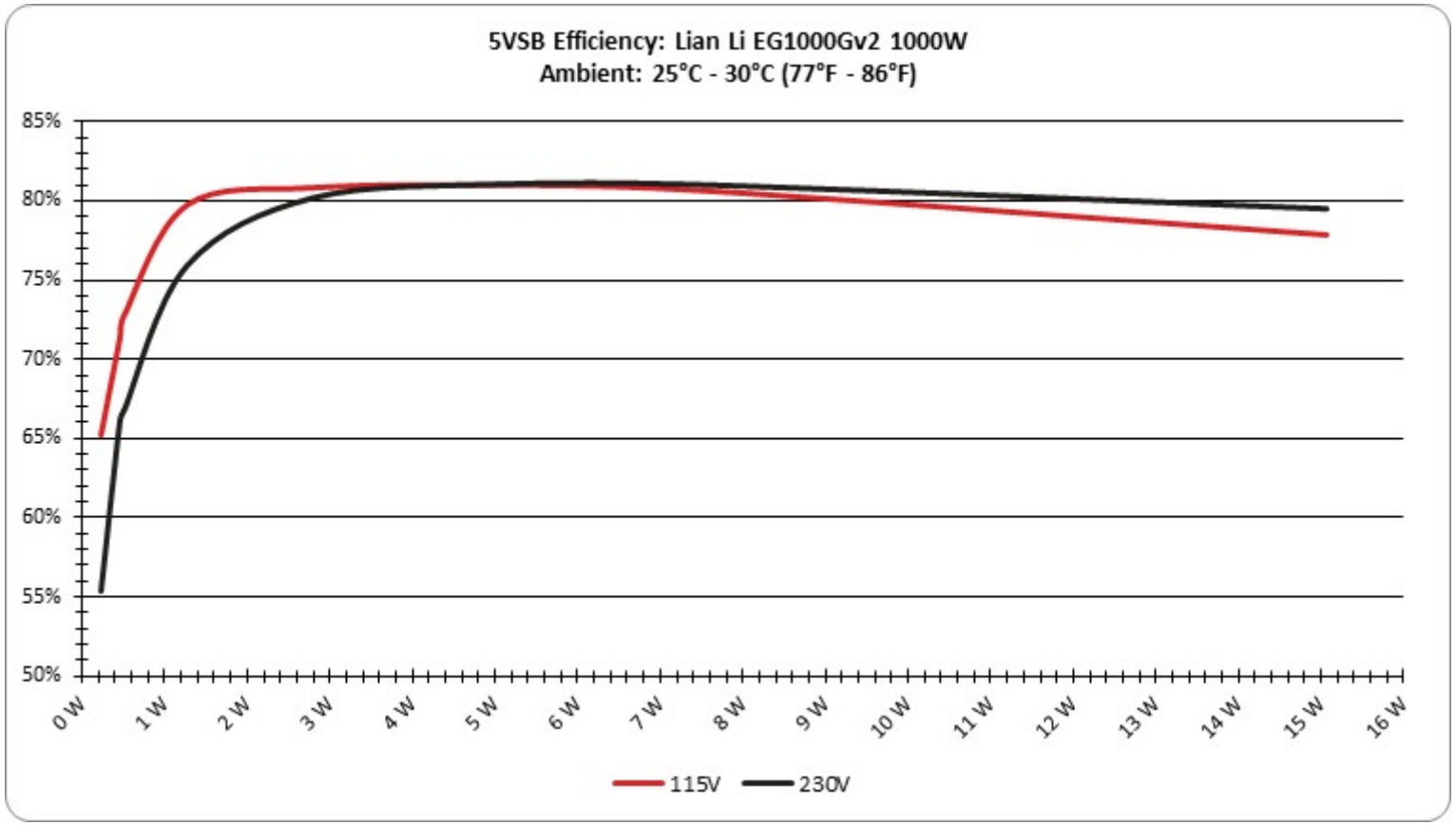
### Efficiency under high ambient temperature




**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** | 0.229W | 65.274% | 0.056 |
| | 5.087V | 0.351W | | 115.04V |
| **2** | **0.09A** | 0.458W | 71.394% | 0.098 |
| | 5.086V | 0.641W | | 115.05V |
| **3** | **0.55A** | 2.792W | 80.855% | 0.323 |
| | 5.076V | 3.453W | | 115.05V |
| **4** | **1A** | 5.067W | 81.024% | 0.413 |
| | 5.067V | 6.254W | | 115.05V |
| **5** | **1.5A** | 7.585W | 80.649% | 0.463 |
| | 5.056V | 9.405W | | 115.05V |
| **6** | **3A** | 15.071W | 77.89% | 0.519 |
| | 5.024V | 19.349W | | 115.04V |

### 230V

| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
|---|---|---|---|---|
| **1** | **0.045A** | 0.229W | 55.326% | 0.021 |
| | 5.086V | 0.414W | | 230.02V |
| **2** | **0.09A** | 0.458W | 66.068% | 0.034 |
| | 5.085V | 0.693W | | 230.01V |
| **3** | **0.55A** | 2.792W | 80.155% | 0.15 |
| | 5.076V | 3.483W | | 230V |
| **4** | **1A** | 5.067W | 81.022% | 0.23 |
| | 5.067V | 6.254W | | 230.03V |
| **5** | **1.5A** | 7.585W | 80.969% | 0.291 |
| | 5.056V | 9.368W | | 230.02V |
| **6** | **3A** | 15.073W | 79.472% | 0.395 |
| | 5.024V | 18.966W | | 229.99V |

## Protection Features

| | |
|---|---|
| OCP (Normal @ 29.3°C) | 12V: 99.600A (120.00%), 12.112V — shut down<br>5V: 29.200A (146.00%), 4.985V — shut down<br>3.3V: 28.400A (142.00%), 3.281V — shut down<br>5VSB: 4.100A (136.67%), 4.998V — shut down |
| OCP (Hot @ 42.2°C) | 12V: 98.900A (119.16%), 12.104V — shut down<br>5V: 29.200A (146.00%), 4.983V — shut down<br>3.3V: 28.200A (141.00%), 3.278V — shut down<br>5VSB: 4.100A (136.67%), 4.994V — shut down |
| OVP (per rail) | 12V: 14.384V (✓)<br>5V: 5.783V (✓)<br>3.3V: 3.836V (✓) |
| OPP (Normal @ 30.7°C) | 1291.05W (129.11%) — shut down |
| OPP (Hot @ 42.4°C) | 1190.04W (119.00%) — shut down |
| OTP | ✓ (105°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 (Typical Load @ 90V) | ✓ |
| UVP (No Damage @ 80V) | ✓ |
| Conducted Emissions EN 55032 & 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%** | **6.459A** | **1.987A** | **1.991A** | **0.989A** | 99.99 | 87.209% | 723 | 10.8 | 40.41°C | 0.959 |
| | 12.137V | 5.033V | 3.315V | 5.053V | 114.656 | | | | 45.06°C | 115.02V |
| **20%** | **13.936A** | **2.982A** | **2.99A** | **1.191A** | 199.94 | 90.513% | 752 | 12.3 | 40.69°C | 0.966 |
| | 12.130V | 5.03V | 3.311V | 5.039V | 220.897 | | | | 48.97°C | 114.98V |
| **30%** | **21.769A** | **3.48A** | **3.49A** | **1.393A** | 299.991 | 91.401% | 791 | 13.5 | 41.15°C | 0.979 |
| | 12.124V | 5.028V | 3.309V | 5.026V | 328.212 | | | | 53.31°C | 114.94V |
| **40%** | **29.571A** | **3.979A** | **3.992A** | **1.596A** | 399.512 | 91.456% | 843 | 15.0 | 41.92°C | 0.986 |
| | 12.117V | 5.026V | 3.307V | 5.012V | 436.834 | | | | 57.79°C | 114.9V |
| **50%** | **37.049A** | **4.977A** | **4.994A** | **1.801A** | 499.221 | 91.209% | 883 | 16.6 | 42.14°C | 0.989 |
| | 12.112V | 5.023V | 3.304V | 4.997V | 547.337 | | | | 60.76°C | 114.87V |
| **60%** | **44.607A** | **5.976A** | **5.999A** | **2A** | 599.722 | 90.729% | 1161 | 25.1 | 42.69°C | 0.992 |
| | 12.105V | 5.02V | 3.301V | 4.982V | 661.003 | | | | 63.51°C | 114.84V |
| **70%** | **52.113A** | **6.978A** | **7.007A** | **2.215A** | 699.503 | 89.975% | 1555 | 33.9 | 43.15°C | 0.993 |
| | 12.097V | 5.017V | 3.297V | 4.967V | 777.439 | | | | 66.68°C | 114.8V |
| **80%** | **59.689A** | **7.976A** | **8.015A** | **2.321A** | 799.508 | 89.206% | 1786 | 37.8 | 43.61°C | 0.994 |
| | 12.090V | 5.013V | 3.294V | 4.953V | 896.251 | | | | 68.99°C | 114.76V |
| **90%** | **67.609A** | **8.48A** | **8.508A** | **2.429A** | 899.31 | 88.478% | 1865 | 38.9 | 44.6°C | 0.994 |
| | 12.082V | 5.011V | 3.291V | 4.94V | 1016.425 | | | | 72.74°C | 114.72V |
| **100%** | **75.339A** | **8.994A** | **9.025A** | **3.051A** | 999.312 | 87.61% | 1870 | 38.9 | 45.34°C | 0.995 |
| | 12.074V | 5.002V | 3.291V | 4.916V | 1140.652 | | | | 76.72°C | 114.68V |
| **110%** | **82.995A** | **9.999A** | **10.129A** | **3.058A** | 1099.886 | 86.74% | 1874 | 39.2 | 46.74°C | 0.995 |
| | 12.068V | 4.999V | 3.287V | 4.905V | 1268.071 | | | | 79.15°C | 114.64V |
| **CL1** | **0.114A** | **12.013A** | **12.04A** | **0A** | 101.275 | 81.812% | 885 | 16.6 | 40.05°C | 0.964 |
| | 12.134V | 5.01V | 3.298V | 5.06V | 123.79 | | | | 52.55°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** | **0.114A** | **19.978A** | **0A** | **0A** | 101.336 | 80.315% | 844 | 15.0 | 40.59°C | 0.965 |
| | 12.136V | 5.003V | 3.311V | 5.065V | 126.173 | | | | 48.73°C | 115.01V |
| **CL3** | **0.114A** | **0A** | **20.077A** | **0A** | 67.393 | 74.342% | 810 | 14.0 | 40.16°C | 0.937 |
| | 12.138V | 5.021V | 3.288V | 5.065V | 90.653 | | | | 45.15°C | 115.01V |
| **CL4** | **82.449A** | **0A** | **0A** | **0.001A** | 995.937 | 88.404% | 1881 | 39.2 | 45.16°C | 0.995 |
| | 12.079V | 5.017V | 3.306V | 4.995V | 1126.579 | | | | 72.25°C | 114.69V |

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%** | **6.459A** | **1.987A** | **1.991A** | **0.99A** | 99.992 | 88.365% | 755 | 12.3 | 40.12°C | 0.84 |
| | 12.136V | 5.033V | 3.315V | 5.053V | 113.159 | | | | 44.89°C | 229.97V |
| **20%** | **13.933A** | **2.982A** | **2.989A** | **1.191A** | 199.943 | 91.872% | 781 | 12.8 | 40.63°C | 0.917 |
| | 12.132V | 5.03V | 3.312V | 5.038V | 217.631 | | | | 45.73°C | 229.98V |
| **30%** | **21.763A** | **3.481A** | **3.49A** | **1.393A** | 299.996 | 92.903% | 814 | 14.0 | 41.16°C | 0.943 |
| | 12.128V | 5.028V | 3.31V | 5.024V | 322.911 | | | | 46.91°C | 229.94V |
| **40%** | **29.559A** | **3.98A** | **3.991A** | **1.597A** | 399.529 | 93.115% | 880 | 16.6 | 41.79°C | 0.956 |
| | 12.122V | 5.025V | 3.307V | 5.01V | 429.071 | | | | 48.62°C | 229.92V |
| **50%** | **37.036A** | **4.978A** | **4.994A** | **1.802A** | 499.259 | 92.977% | 1111 | 23.9 | 42.05°C | 0.964 |
| | 12.117V | 5.022V | 3.304V | 4.995V | 536.973 | | | | 50.71°C | 229.92V |
| **60%** | **44.583A** | **5.978A** | **5.998A** | **2A** | 599.75 | 92.699% | 1315 | 29.0 | 42.74°C | 0.97 |
| | 12.112V | 5.019V | 3.301V | 4.98V | 646.988 | | | | 52.26°C | 229.9V |
| **70%** | **52.072A** | **6.979A** | **7.004A** | **2.216A** | 699.521 | 92.309% | 1514 | 33.1 | 43.16°C | 0.973 |
| | 12.107V | 5.016V | 3.298V | 4.965V | 757.803 | | | | 53.73°C | 229.87V |
| **80%** | **59.633A** | **7.977A** | **8.011A** | **2.322A** | 799.524 | 91.878% | 1715 | 36.7 | 43.62°C | 0.976 |
| | 12.101V | 5.013V | 3.295V | 4.952V | 870.2 | | | | 55.07°C | 229.86V |
| **90%** | **67.535A** | **8.481A** | **8.502A** | **2.43A** | 899.325 | 91.451% | 1868 | 38.9 | 44.69°C | 0.978 |
| | 12.096V | 5.01V | 3.293V | 4.939V | 983.392 | | | | 56.82°C | 229.84V |

| Test | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | Temps (In/Out) | PF/AC Volts |
|---|---|---|---|---|---|---|---|---|---|---|
| **100%** | **75.253A** | **8.985A** | **9.027A** | **3.053A** | 999.329 | 90.913% | 1873 | 39.2 | 45.87°C | 0.981 |
| | 12.088V | 5.007V | 3.29V | 4.913V | 1099.208 | | | | 59.86°C | 229.85V |
| **110%** | **82.876A** | **10.001A** | **10.121A** | **3.059A** | 1099.888 | 90.44% | 1878 | 39.2 | 46.37°C | 0.983 |
| | 12.086V | 4.998V | 3.29V | 4.904V | 1216.101 | | | | 59.4°C | 229.81V |
| **CL1** | **0.114A** | **12.016A** | **12.029A** | **0A** | 101.279 | 82.83% | 845 | 15.0 | 40.67°C | 0.854 |
| | 12.135V | 5.009V | 3.3V | 5.059V | 122.269 | | | | 50.35°C | 229.99V |
| **CL2** | **0.114A** | **19.989A** | **0A** | **0A** | 101.335 | 81.235% | 815 | 14.0 | 40.56°C | 0.857 |
| | 12.137V | 5V | 3.311V | 5.064V | 124.743 | | | | 46.89°C | 229.97V |
| **CL3** | **0.114A** | **0A** | **20.052A** | **0A** | 67.393 | 75.169% | 795 | 13.5 | 40.77°C | 0.801 |
| | 12.138V | 5.021V | 3.292V | 5.064V | 89.656 | | | | 44.33°C | 229.99V |
| **CL4** | **82.333A** | **0A** | **0A** | **0.001A** | 995.946 | 91.704% | 1851 | 38.6 | 45.63°C | 0.98 |
| | 12.097V | 5.017V | 3.307V | 4.995V | 1086.039 | | | | 50.98°C | 229.83V |

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** | **1.222A** | **0.496A** | **0.497A** | **0.197A** | 19.996 | 68.538% | 0 | <6.0 | 39.98°C | 0.823 |
| | 12.144V | 5.036V | 3.318V | 5.079V | 29.176 | | | | 36.67°C | 115.04V |
| **40W** | **2.692A** | **0.695A** | **0.696A** | **0.295A** | 39.996 | 79.57% | 0 | <6.0 | 39.97°C | 0.896 |
| | 12.142V | 5.036V | 3.317V | 5.075V | 50.265 | | | | 37.27°C | 115.03V |
| **60W** | **4.162A** | **0.894A** | **0.896A** | **0.394A** | 59.995 | 84.039% | 0 | <6.0 | 43.65°C | 0.924 |
| | 12.140V | 5.035V | 3.316V | 5.071V | 71.389 | | | | 38.79°C | 115.03V |
| **80W** | **5.628A** | **1.092A** | **1.094A** | **0.493A** | 79.938 | 85.958% | 712 | 10.0 | 39.05°C | 0.938 |
| | 12.138V | 5.035V | 3.316V | 5.067V | 92.996 | | | | 44.1°C | 115.02V |

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** | **1.222A** | **0.496A** | **0.497A** | **0.197A** | 19.996 | 68.697% | 0 | <6.0 | 38.42°C | 0.569 |
| | 12.147V | 5.036V | 3.318V | 5.08V | 29.107 | | | | 36.98°C | 230.02V |
| **40W** | **2.692A** | **0.695A** | **0.696A** | **0.295A** | 39.996 | 80.276% | 0 | <6.0 | 42.88°C | 0.678 |
| | 12.145V | 5.036V | 3.317V | 5.075V | 49.823 | | | | 37.54°C | 230.01V |
| **60W** | **4.162A** | **0.894A** | **0.895A** | **0.394A** | 59.996 | 84.841% | 0 | <6.0 | 46.46°C | 0.755 |
| | 12.142V | 5.035V | 3.316V | 5.071V | 70.716 | | | | 38.11°C | 229.99V |
| **80W** | **5.628A** | **1.092A** | **1.094A** | **0.493A** | 79.94 | 87.118% | 0 | <6.0 | 44.25°C | 0.805 |
| | 12.139V | 5.035V | 3.316V | 5.066V | 91.76 | | | | 39.12°C | 230.01V |

The results above are not used in the certification process

## Ripple Measurements

### 115V

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 10% Load | 31.16mV | 26.62mV | 24.30mV | 24.50mV | Pass |
| 20% Load | 32.18mV | 26.57mV | 24.09mV | 23.17mV | Pass |
| 30% Load | 33.05mV | 25.90mV | 23.33mV | 23.17mV | Pass |
| 40% Load | 36.17mV | 25.95mV | 23.17mV | 24.04mV | Pass |
| 50% Load | 36.84mV | 27.33mV | 27.83mV | 23.99mV | Pass |
| 60% Load | 37.71mV | 28.92mV | 27.47mV | 26.04mV | Pass |
| 70% Load | 40.16mV | 27.38mV | 27.47mV | 26.09mV | Pass |
| 80% Load | 40.67mV | 28.56mV | 24.91mV | 27.67mV | Pass |
| 90% Load | 41.49mV | 28.97mV | 24.40mV | 27.31mV | Pass |
| 100% Load | 43.18mV | 28.40mV | 23.48mV | 28.85mV | Pass |
| 110% Load | 43.85mV | 28.00mV | 24.30mV | 29.00mV | Pass |
| Crossload1 | 30.85mV | 25.70mV | 23.22mV | 36.21mV | Pass |
| Crossload2 | 32.13mV | 27.54mV | 23.02mV | 36.37mV | Pass |

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| Crossload3 | 28.60mV | 24.63mV | 24.35mV | 37.80mV | Pass |
| Crossload4 | 42.46mV | 27.44mV | 23.89mV | 39.49mV | Pass |

The results above are not used in the certification process

**230V**

| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail |
|---|---|---|---|---|---|
| 10% Load | 30.39mV | 25.64mV | 22.92mV | 22.66mV | Pass |
| 20% Load | 33.00mV | 26.36mV | 23.99mV | 23.89mV | Pass |
| 30% Load | 34.33mV | 26.41mV | 24.96mV | 25.17mV | Pass |
| 40% Load | 34.74mV | 26.77mV | 25.27mV | 24.45mV | Pass |
| 50% Load | 38.93mV | 28.61mV | 26.65mV | 25.83mV | Pass |
| 60% Load | 38.68mV | 28.05mV | 28.65mV | 25.57mV | Pass |
| 70% Load | 38.37mV | 29.37mV | 28.75mV | 27.62mV | Pass |
| 80% Load | 41.49mV | 28.46mV | 24.96mV | 26.54mV | Pass |
| 90% Load | 43.13mV | 28.46mV | 24.86mV | 28.95mV | Pass |
| 100% Load | 44.61mV | 28.92mV | 25.47mV | 29.62mV | Pass |
| 110% Load | 46.86mV | 28.51mV | 26.86mV | 28.95mV | Pass |
| Crossload1 | 29.52mV | 25.19mV | 24.61mV | 35.14mV | Pass |
| Crossload2 | 32.18mV | 27.49mV | 23.48mV | 35.45mV | Pass |
| Crossload3 | 30.39mV | 26.26mV | 25.02mV | 35.55mV | Pass |
| Crossload4 | 45.02mV | 29.84mV | 25.63mV | 39.85mV | Pass |

The results above are not used in the certification process

## Lian Li EG1000Gv2



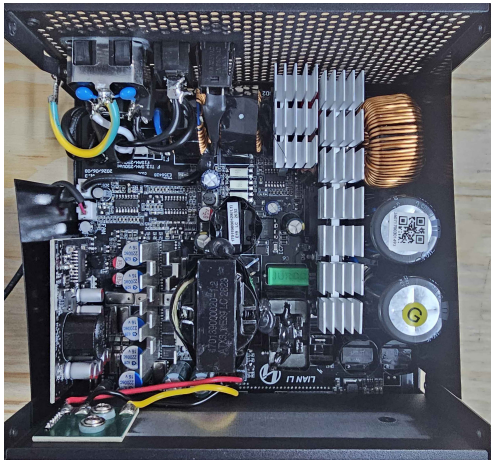
Top side




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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