

Anex

Gigabyte Aorus 850

Lab ID#: 467

Receipt Date: Aug 13, 2018 Test Date: Aug 23, 2018 Report:

Report Date: Aug 27, 2018

| DUT INFORMATION | |
|--------------------|----------------|
| Brand | Gigabyte |
| Manufacturer (OEM) | MEIC |
| Series | Aorus |
| Model Number | GP-AP850GM |
| Serial Number | SN18273G003569 |
| DUT Notes | |
| | |

| DUT SPECIFICATION | ONS |
|------------------------|---|
| Rated Voltage (Vrms) | 100-240 |
| Rated Current (Arms) | 12-6 |
| Rated Frequency (Hz) | 50-60 |
| Rated Power (W) | 850 |
| Туре | ATX12V |
| Cooling | 135mm Double Ball Bearing Fan (D14BH-12) |
| Semi-Passive Operation | ✓ |
| Cable Design | Fully Modular |

| POWER SPECIFICAT | ECIFICATIONS | | | | | |
|--------------------------|--------------|------|----|------|------|------|
| Rail | | 3.3V | 5V | 12V | 5VSB | -12V |
| Mary Danier | Amps | 20 | 20 | 70.5 | 3 | 0.3 |
| Max. Power | Watts | 120 | | 846 | 15 | 3.6 |
| Total Max. Power (W) 850 | | | | | | |

| CABLES AND CONNECTORS | | | | |
|---|-------------|-------------------------|----------|---------------------|
| Modular Cables | | | | |
| Description | Cable Count | Connector Count (Total) | Gauge | In Cable Capacitors |
| ATX connector 20+4 pin (660mm) | 1 | 1 | 16-22AWG | Yes |
| 4+4 pin EPS12V (800mm) | 1 | 1 | 18AWG | Yes |
| 4+4 pin EPS12V (650mm) | 1 | 1 | 18AWG | Yes |
| 6+2 pin PCle (750mm) | 2 | 2 | 18AWG | Yes |
| 6+2 pin PCle (650mm+150mm) | 2 | 4 | 18AWG | Yes |
| SATA (550mm+100mm+100mm)+4-pin Molex (+100mm) | 1 | 3/1 | 18AWG | No |
| SATA (460mm+100mm+100mm)+4-pin Molex (+100mm) | 1 | 3/1 | 18AWG | No |
| 4-pin Molex (450mm+100mm+100mm)+FDD (+100mm) | 1 | 3/1 | 18-22AWG | No |
| FDD Adapter (+105mm) | 1 | 1 | 22AWG | No |
| AC Power Cord (1400mm) - C13 coupler | 1 | 1 | 16AWG | - |

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

PAGE 1/16

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

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



Anex

Gigabyte Aorus 850

| General Data | |
|-------------------------|---|
| Manufacturer (OEM) | MEIC |
| Primary Side | |
| Transient Filter | 4x Y caps, 2x X caps, 2x CM chokes, 1x MOV, 1x CM02X |
| Inrush Protection | NTC Thermistor & Relay |
| Bridge Rectifier(s) | 2x GBU1006 (600V, 10A @ 100°C) |
| APFC MOSFETS | 2x Alpha & Omega AOT42S60 (600V, 25A @ 100°C, 0.28Ohm @ 150°C) |
| APFC Boost Diode | 1x CREE C3D08060A (600V, 8A @ 152°C) |
| Hold-up Cap(s) | 2x Nippon Chemi-Con (400V, 390uF, 2000h @ 105 °C, KMR) |
| Main Switchers | 2x Alpha & Omega AOT42S60 (600V, 25A @ 100°C, 0.28Ohm @ 150°C) |
| APFC Controller | Champion CM6500UNX & CM03X Green PFC controller |
| LLC Resonant Controller | Champion CM6901 |
| Topology | Primary side: Half-Bridge & LLC Resonant Controller Secondary side: Synchronous Rectification & DC converters |
| Secondary Side | |
| +12V MOSFETS | 4x Alpha & Omega AOT2142L (40V, 120A @ 100°C, 1.9mOhm) |
| 5V & 3.3V | DC-DC Converters: 8x GV8G16 PWM Controller: 2x NCP1587 |
| Filtering Capacitors | Electrolytics: Chemi-Con (1-5,000 @ 105°C, KZE), Chemi-Con (4-10,000h @ 105°C, KY) Polymers Chemi-Con |
| Supervisor IC | Weltrend WT7527A (OVP, UVP, SCP, OCP, PG) |
| Fan Model | Yate Loon D14BH-12 (140mm, 12V, 0.70A, 2800 RPM, 140CFM, 48.5 dBA, Double-Ball Bearing) |
| 5VSB Circuit | |
| Rectifier | 1x TPD65R1K2C (650V, 4A @ 25°C, 1.20hm) |
| Standby PWM Controller | SI8016HSP8 |
| | |

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

PAGE 2/16

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

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



Anex

Gigabyte Aorus 850

| RESULTS | |
|-----------------------------|-----------------|
| Temperature Range (°C /°F) | 30-32 / 86-89.6 |
| ErP Lot 3/6 Ready | / |
| (EU) No 617/2013 Compliance | ✓ |

| 115V | |
|---|-------------|
| Average Efficiency | 89.708% |
| Efficiency With 10W (≤500W) or 2% (>500W) | 62.829 |
| Average Efficiency 5VSB | 78.019% |
| Standby Power Consumption (W) | 0.0238793 |
| Average PF | 0.984 |
| Avg Noise Output | 32.06 dB(A) |
| Efficiency Rating (ETA) | PLATINUM |
| Noise Rating (LAMBDA) | Standard++ |

| 230V | |
|-------------------------------|-------------|
| Average Efficiency | 91.666% |
| Average Efficiency 5VSB | 78.398% |
| Standby Power Consumption (W) | 0.0371859 |
| Average PF | 0.945 |
| Avg Noise Output | 32.35 dB(A) |
| Efficiency Rating (ETA) | PLATINUM |
| Noise Rating (LAMBDA) | Standard++ |

| TEST EQUIPMENT | | |
|------------------|---|---|
| Electronic Loads | Chroma 6314A x2 63123A x6 63102A 63101A | Chroma 63601-5 x4 Chroma 63600-2 x2 63640-80-80 x20 63610-80-20 x2 |
| AC Sources | Chroma 6530, Chroma 61604, Keysight AC6804B | |
| Power Analyzers | N4L PPA1530 x2, N4L PPA5530 | |
| Oscilloscopes | Picoscope 4444 & 3424, Keysight DSOX3024A, Rigol DS | 52072A |
| Voltmeter | Keithley 2015 THD 6.5 Digit | |
| Sound Analyzer | Bruel & Kjaer 2250-L G4 | |
| Microphone | Bruel & Kjaer Type 4955-A, Bruel & Kjaer Type 4189 | |
| Data Loggers | Picoscope TC-08 x2, Labjack U3-HV x2 | |

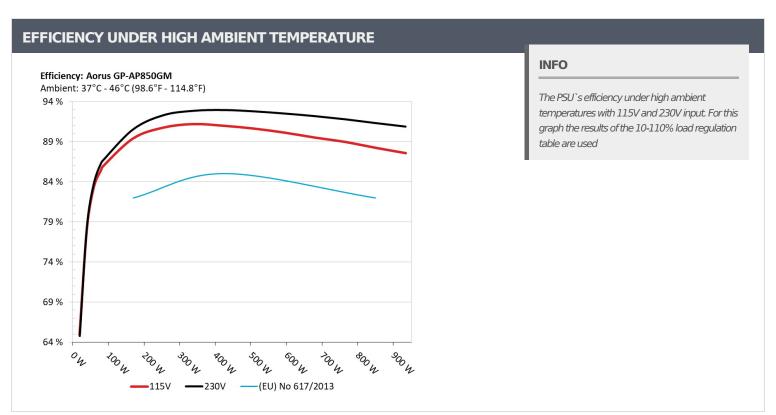
| HOLD-UP TIME & POWER OK SIGNAL (230V) | |
|---------------------------------------|------|
| Hold-Up Time (ms) | 16.8 |
| AC Loss to PWR_OK Hold Up Time (ms) | 15.6 |
| PWR_OK Inactive to DC Loss Delay (ms) | 1.2 |

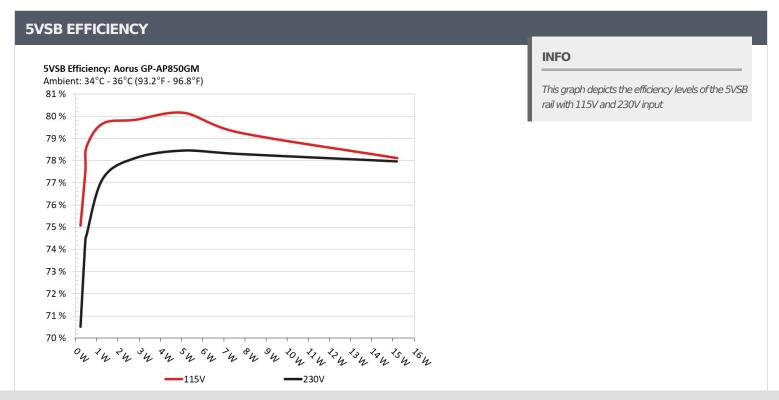
All data and graphs included in this test report can be used by any individual on the following conditions:

- > 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

PAGE 3/16

Anex Gigabyte Aorus 850





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

PAGE 4/16



Anex

Gigabyte Aorus 850

| 5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC) | | | | |
|---|--------------|---------------|------------|-------------|
| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
| 1 | 0.045A | 0.232 | 75.0010/ | 0.031 |
| 1 | 5.149V | 0.309 | 75.081% | 115.10V |
| 2 | 0.090A 0.463 | 77.55.40/ | 0.058 | |
| 2 | 5.147V | 0.597 | 77.554% | 115.10V |
| | 0.550A | 2.824 | 70.0420/ | 0.250 |
| 3 | 5.135V | 3.537 | 79.842% | 115.10V |
| | 1.000A | 5.122 | 00.1550/ | 0.331 |
| 4 | 5.122V | 6.390 | 80.156% | 115.10V |
| _ | 1.500A 7.661 | | 0.377 | |
| 5 | 5.107V | 9.663 | 79.282% | 115.10V |
| 6 | 3.000A | 15.190 | 70.1100/ | 0.437 |
| | 5.063V | 19.445 | 78.118% | 115.10V |
| | | | | |

| 5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC) | | | | |
|---|--------|---------------|------------|-------------|
| Test # | 5VSB | DC/AC (Watts) | Efficiency | PF/AC Volts |
| | 0.045A | 0.232 | 70 51 70/ | 0.010 |
| 1 | 5.149V | 0.329 | 70.517% | 230.27V |
| _ | 0.090A | 0.463 | 74.4070/ | 0.018 |
| 2 | 5.147V | 0.622 | 74.437% | 230.27V |
| | 0.550A | 2.824 | 78.119% | 0.100 |
| 3 | 5.134V | 3.615 | | 230.27V |
| | 1.000A | 5.121 | 78.459% | 0.166 |
| 4 | 5.121V | 6.527 | | 230.27V |
| _ | 1.500A | 7.660 | | 0.221 |
| 5 | 5.106V | 9.782 | 78.307% | 230.27V |
| 6 | 3.000A | 15.187 | | 0.315 |
| | 5.062V | 19.478 | 77.970% | 230.27V |

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

PAGE 5/16

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

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



Anex

Gigabyte Aorus 850

115V

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

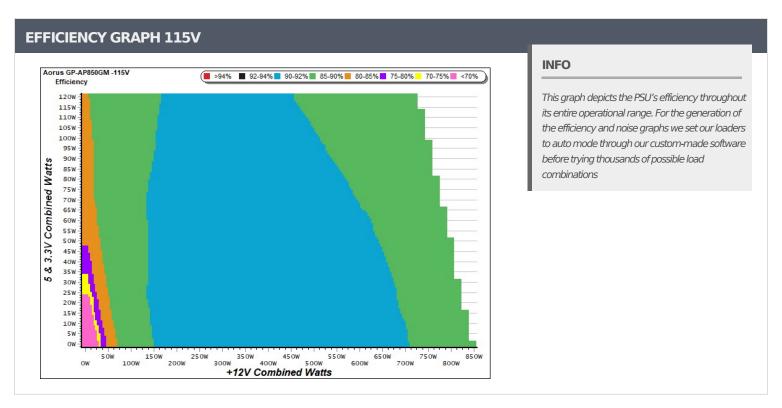
> It should be mentioned that the test results are provided by Cybenetics

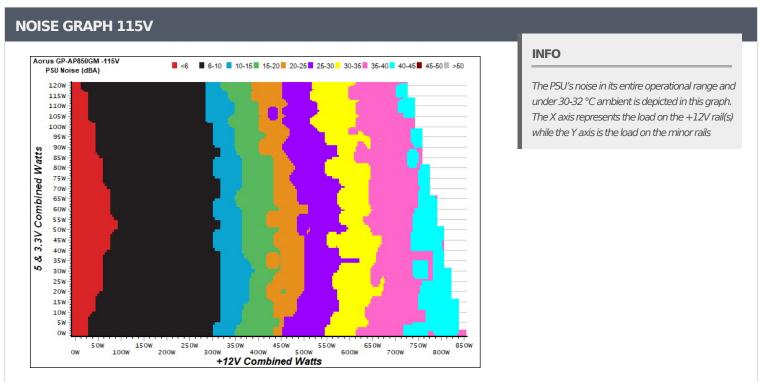
> The link to the original test results document should be provided in any case

PAGE 6/16



Anex Gigabyte Aorus 850





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

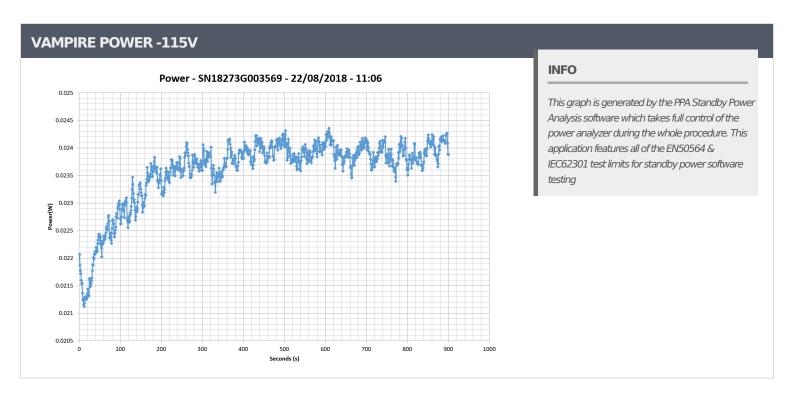
- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 7/16



Anex

Gigabyte Aorus 850



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

PAGE 8/16



Anex

Gigabyte Aorus 850

| Test # | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | Temps (In/Out) | PF/AC Volts |
|--------|---------|---------|---------|--------|------------------|------------|--------------------|--|-------------------|----------------|
| 1 | 5.159A | 1.968A | 1.942A | 0.978A | 84.888 | 05.0220/ | 0 | -C O | 46.65°C | 0.963 |
| 1 | 12.267V | 5.083V | 3.398V | 5.114V | 98.796 | 85.923% | 0 | (dB[A]) <6.0 14.2 17.0 24.2 27.9 33.7 37.8 42.2 43.7 45.5 46.5 | 40.33°C | 115.12\ |
| 2 | 11.298A | 2.959A | 2.920A | 1.176A | 169.342 | 00.4040/ | F22 | 140 | 40.77°C | 0.983 |
| 2 | 12.254V | 5.071V | 3.388V | 5.101V | 189.413 | 89.404% | 532 | 14.2 | 49.04°C | 115.11\ |
| 2 | 17.828A | 3.455A | 3.399A | 1.376A | 254.476 | 00.7600/ | F00 | (dB[A]) <6.0 14.2 17.0 24.2 27.9 33.7 37.8 42.2 43.7 45.5 46.5 | 41.18°C | 0.989 |
| 3 | 12.255V | 5.064V | 3.382V | 5.089V | 280.358 | 90.768% | 590 | | 51.70°C | 115.11\ |
| 4 | 24.374A | 3.955A | 3.907A | 1.576A | 339.688 | 01 2000/ | 765 | (dB[A]) <6.0 14.2 17.0 24.2 27.9 33.7 37.8 42.2 43.7 45.5 46.5 | 41.91°C | 0.987 |
| 4 | 12.246V | 5.058V | 3.378V | 5.077V | 372.432 | 91.208% | 765 | | 53.10°C | 115.11\ |
| _ | 30.606A | 4.948A | 4.894A | 1.777A | 425.015 | 00.0020/ | 060 | | 42.12°C | 0.986 |
| 5 | 12.237V | 5.051V | 3.371V | 5.064V | 467.092 | 90.992% | 860 | | 54.28°C | 115.35\ |
| 6 | 36.778A | 5.950A | 5.883A | 1.980A | 509.536 | 00.6420/ | 1075 | 33.7 | 42.67°C | 0.988 |
| 6 | 12.228V | 5.044V | 3.366V | 5.051V | 562.141 | 90.642% | 1075 | | 55.19°C | 115.11\ |
| 7 | 43.028A | 6.950A | 6.876A | 2.184A | 594.873 | - 00.1200/ | 1255 | 27.0 | 43.30°C | 0.989 |
| 7 | 12.219V | 5.037V | 3.360V | 5.038V | 659.951 | 90.139% | 1255 | 33.7 | 56.06°C | 115.10\ |
| 0 | 49.284A | 7.954A | 7.871A | 2.388A | 680.216 | 00 F200/ | 1400 | 42.2 | 43.63°C | 0.990 |
| 8 | 12.211V | 5.030V | 3.354V | 5.025V | 759.846 | 89.520% | 1480 | 17.0 24.2 27.9 33.7 37.8 42.2 43.7 | 57.20°C | 115.11\ |
| 0 | 55.946A | 8.463A | 8.360A | 2.391A | 765.160 | 00.0760/ | 1620 | (dB[A]) <6.0 14.2 17.0 24.2 27.9 33.7 37.8 42.2 43.7 45.5 46.5 | 44.61°C | 0.991 |
| 9 | 12.202V | 5.023V | 3.349V | 5.019V | 859.963 | 88.976% | 1630 | | 58.82°C | 115.09\ |
| 10 | 62.349A | 8.972A | 8.884A | 3.004A | 850.007 | 00.2400/ | 1700 | 45.5 | 45.70°C | 0.992 |
| 10 | 12.194V | 5.017V | 3.344V | 4.994V | 963.187 | 88.249% | 1760 | 45.5 | 60.22°C | 115.11\ |
| 11 | 69.346A | 8.981A | 8.893A | 3.008A | 934.773 | 07 5000/ | 1020 | 46 F | 46.34°C | 0.992 |
| 11 | 12.186V | 5.012V | 3.340V | 4.989V | 1067.342 | 87.580% | 1830 | 40.5 | 61.74°C | 115.09 |
| CI 1 | 0.151A | 14.002A | 13.999A | 0.000A | 120.115 | 04.50307 | 0 | 0 | 46.79°C | 0.977 |
| CL1 | 12.260V | 5.065V | 3.382V | 5.125V | 142.146 | 84.501% | 0 | U | 42.00°C | 115.16\ |
| CI 2 | 70.522A | 1.002A | 1.001A | 1.000A | 873.623 | 00 5370/ | 1700 | 45.0 | 45.64°C | 0.992 |
| CL2 | 12.197V | 5.030V | 3.356V | 5.067V | 986.802 | 88.531% | 1780 | (dB[A]) <6.0 14.2 17.0 24.2 27.9 33.7 37.8 42.2 43.7 45.5 46.5 | 60.32°C | 115.09\ |
| | | | | | | | | | | |

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

PAGE 9/16

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

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



Anex

Gigabyte Aorus 850

| 20-80W LOAD TESTS 115V | | | | | | | | | |
|------------------------|---------|--------|--------|--------|------------------|------------|--------------------|----------------------|-------------|
| Test# | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | PF/AC Volts |
| | 1.172A | 0.492A | 0.469A | 0.194A | 19.470 | 64.0270/ | 0 | <6.0 | 0.796 |
| 1 | 12.266V | 5.086V | 3.400V | 5.143V | 29.983 | 64.937% | | | 115.11V |
| 2 | 2.414A | 0.984A | 0.969A | 0.390A | 39.903 | 70.1020/ | _ | <6.0 | 0.905 |
| 2 | 12.264V | 5.084V | 3.398V | 5.136V | 51.091 | 78.102% | 0 | | 115.11V |
| 2 | 3.593A | 1.477A | 1.440A | 0.585A | 59.481 | 02.2440/ | 0 | <6.0 | 0.948 |
| 3 | 12.268V | 5.084V | 3.398V | 5.128V | 71.368 | 83.344% | | | 115.12V |
| 4 | 4.833A | 1.968A | 1.942A | 0.781A | 79.883 | 05 4710/ | 0 | <6.0 | 0.960 |
| 4 | 12.266V | 5.083V | 3.398V | 5.120V | 93.462 | 85.471% | 0 | | 115.12V |

| Test 12V 5V 3.3V 5VSB Pass 10% Load 4.9 mV 6.2 mV 13.1 mV 5.2 mV Pass 20% Load 22.5 mV 7.2 mV 13.2 mV 6.4 mV Pass 30% Load 7.1 mV 6.1 mV 12.3 mV 4.9 mV Pass 40% Load 5.6 mV 6.5 mV 11.9 mV 4.7 mV Pass 50% Load 5.6 mV 7.3 mV 12.3 mV 4.7 mV Pass 60% Load 6.4 mV 8.9 mV 13.6 mV 6.5 mV Pass 70% Load 7.0 mV 10.1 mV 14.5 mV 6.7 mV Pass 80% Load 8.3 mV 10.3 mV 14.2 mV 7.7 mV Pass 90% Load 7.7 mV 9.1 mV 15.2 mV 6.4 mV Pass 100% Load 11.3 mV 14.4 mV 18.2 mV 10.3 mV Pass | |
|---|------|
| 20% Load 22.5 mV 7.2 mV 13.2 mV 6.4 mV Pass 30% Load 7.1 mV 6.1 mV 12.3 mV 4.9 mV Pass 40% Load 5.6 mV 6.5 mV 11.9 mV 4.9 mV Pass 50% Load 5.6 mV 7.3 mV 12.3 mV 4.7 mV Pass 60% Load 6.4 mV 8.9 mV 13.6 mV 6.5 mV Pass 70% Load 7.0 mV 10.1 mV 14.5 mV 6.7 mV Pass 80% Load 8.3 mV 10.3 mV 14.2 mV 7.7 mV Pass 90% Load 7.7 mV 9.1 mV 15.2 mV 6.4 mV Pass | Fail |
| 30% Load 7.1 mV 6.1 mV 12.3 mV 4.9 mV Pass 40% Load 5.6 mV 6.5 mV 11.9 mV 4.9 mV Pass 50% Load 5.6 mV 7.3 mV 12.3 mV 4.7 mV Pass 60% Load 6.4 mV 8.9 mV 13.6 mV 6.5 mV Pass 70% Load 7.0 mV 10.1 mV 14.5 mV 6.7 mV Pass 80% Load 8.3 mV 10.3 mV 14.2 mV 7.7 mV Pass 90% Load 7.7 mV 9.1 mV 15.2 mV 6.4 mV Pass | |
| 40% Load 5.6 mV 6.5 mV 11.9 mV 4.9 mV Pass 50% Load 5.6 mV 7.3 mV 12.3 mV 4.7 mV Pass 60% Load 6.4 mV 8.9 mV 13.6 mV 6.5 mV Pass 70% Load 7.0 mV 10.1 mV 14.5 mV 6.7 mV Pass 80% Load 8.3 mV 10.3 mV 14.2 mV 7.7 mV Pass 90% Load 7.7 mV 9.1 mV 15.2 mV 6.4 mV Pass | |
| 50% Load 5.6 mV 7.3 mV 12.3 mV 4.7 mV Pass 60% Load 6.4 mV 8.9 mV 13.6 mV 6.5 mV Pass 70% Load 7.0 mV 10.1 mV 14.5 mV 6.7 mV Pass 80% Load 8.3 mV 10.3 mV 14.2 mV 7.7 mV Pass 90% Load 7.7 mV 9.1 mV 15.2 mV 6.4 mV Pass | |
| 60% Load 6.4 mV 8.9 mV 13.6 mV 6.5 mV Pass 70% Load 7.0 mV 10.1 mV 14.5 mV 6.7 mV Pass 80% Load 8.3 mV 10.3 mV 14.2 mV 7.7 mV Pass 90% Load 7.7 mV 9.1 mV 15.2 mV 6.4 mV Pass | |
| 70% Load 7.0 mV 10.1 mV 14.5 mV 6.7 mV Pass 80% Load 8.3 mV 10.3 mV 14.2 mV 7.7 mV Pass 90% Load 7.7 mV 9.1 mV 15.2 mV 6.4 mV Pass | |
| 80% Load 8.3 mV 10.3 mV 14.2 mV 7.7 mV Pass 90% Load 7.7 mV 9.1 mV 15.2 mV 6.4 mV Pass | |
| 90% Load 7.7 mV 9.1 mV 15.2 mV 6.4 mV Pass | |
| | |
| 100% Load 11.3 mV 14.4 mV 18.2 mV 10.3 mV Pass | |
| | |
| 110% Load 77.1 mV 28.6 mV 52.9 mV 26.6 mV Fail | |
| Crossload 1 27.1 mV 16.9 mV 19.3 mV 5.8 mV Pass | |
| Crossload 2 9.9 mV 11.5 mV 16.1 mV 7.8 mV Pass | |

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

PAGE 10/16

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

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



Anex

Gigabyte Aorus 850

230V

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

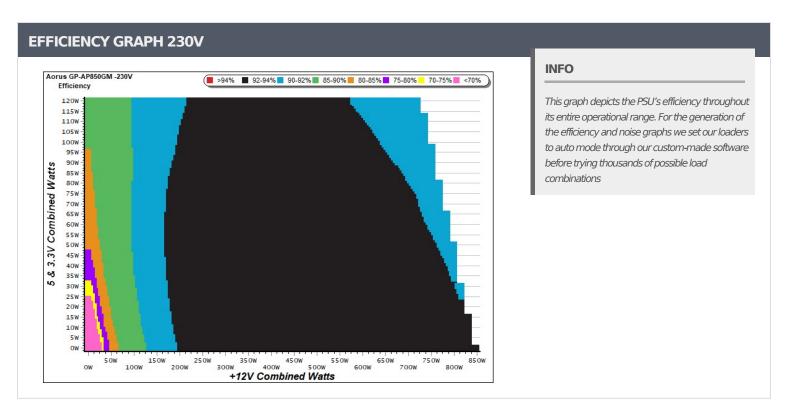
> It should be mentioned that the test results are provided by Cybenetics

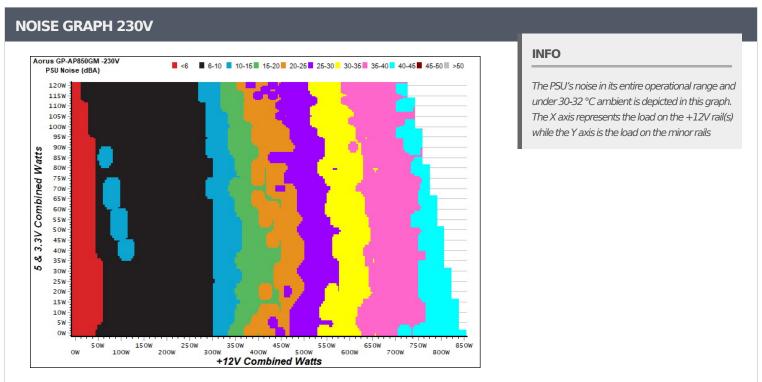
> The link to the original test results document should be provided in any case

PAGE 11/16



Anex Gigabyte Aorus 850





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

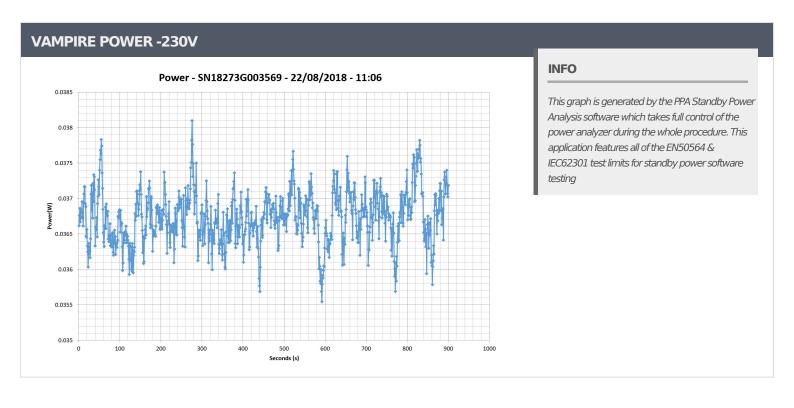
- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 12/16



Anex

Gigabyte Aorus 850



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
- $\,{}^{\backprime}$ The link to the original test results document should be provided in any case

PAGE 13/16



Anex

Gigabyte Aorus 850

| 10-1 | 10% LOA | D TESTS | 230V | | | | | | | |
|-------|---------|---------|---------|--------|------------------|------------|--------------------|---|-------------------|----------------|
| Test# | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | Temps (In/Out) | PF/AC Volts |
| _ | 5.158A | 1.967A | 1.940A | 0.978A | 84.857 | 06.6020/ | • | 6.0 | 46.80°C | 0.790 |
| 1 | 12.265V | 5.083V | 3.399V | 5.114V | 97.893 | 86.683% | 0 | | 40.05°C | 230.30V |
| 2 | 11.298A | 2.959A | 2.920A | 1.176A | 169.330 | 00.5470/ | F00 | 12.0 | 40.32°C | 0.907 |
| 2 | 12.253V | 5.071V | 3.388V | 5.101V | 187.008 | 90.547% | 500 | (dB[A]) <6.0 12.8 17.1 23.1 29.1 34.1 39.0 38.4 43.0 45.4 46.5 0 | 47.55°C | 230.33V |
| 2 | 17.829A | 3.456A | 3.399A | 1.375A | 254.461 | 02.21.60/ | COF | 171 | 41.05°C | 0.944 |
| 3 | 12.253V | 5.065V | 3.383V | 5.090V | 275.641 | 92.316% | 605 | (dB[A]) <6.0 12.8 17.1 23.1 29.1 34.1 39.0 38.4 43.0 45.4 46.5 0 | 48.65°C | 230.33V |
| | 24.375A | 3.955A | 3.905A | 1.576A | 339.668 | 00.000/ | 720 | (dB[A]) <6.0 12.8 17.1 23.1 29.1 34.1 39.0 38.4 43.0 45.4 46.5 0 | 41.86°C | 0.960 |
| 4 | 12.245V | 5.058V | 3.378V | 5.077V | 365.752 | 92.868% | 730 | | 50.15°C | 230.30V |
| _ | 30.605A | 4.949A | 4.893A | 1.777A | 424.980 | 02.0520/ | 005 | 20.1 | 42.34°C | 0.968 |
| 5 | 12.236V | 5.051V | 3.372V | 5.065V | 457.154 | 92.962% | 905 | (dB[A]) <6.0 12.8 17.1 23.1 29.1 34.1 39.0 38.4 43.0 45.4 46.5 0 | 51.25°C | 230.30V |
| _ | 36.779A | 5.949A | 5.880A | 1.980A | 509.499 | 00.7000/ | 1005 | 23.1 29.1 34.1 39.0 38.4 43.0 | 42.70°C | 0.973 |
| 6 | 12.227V | 5.044V | 3.366V | 5.052V | 549.040 | 92.798% | 1085 | | 52.02°C | 230.69V |
| _ | 43.029A | 6.950A | 6.876A | 2.183A | 594.839 | 00.5070/ | 1210 | 20.0 | 43.12°C | 0.976 |
| 7 | 12.218V | 5.037V | 3.360V | 5.039V | 642.880 | 92.527% | 1310 | (dB[A]) <6.0 12.8 17.1 23.1 29.1 34.1 39.0 38.4 43.0 45.4 46.5 0 | 53.52°C | 230.91V |
| 0 | 49.301A | 7.957A | 7.873A | 2.389A | 680.225 | 02.2010/ | 1205 | 20.4 | 43.26°C | 0.978 |
| 8 | 12.207V | 5.028V | 3.353V | 5.024V | 737.760 | 92.201% | 1285 | 38.4 | 54.42°C | 230.34V |
| 0 | 55.959A | 8.466A | 8.364A | 2.392A | 765.222 | 01.0060/ | 1500 | 42.0 | 44.25°C | 0.981 |
| 9 | 12.200V | 5.022V | 3.348V | 5.018V | 833.524 | 91.806% | 1560 | 43.0 | 55.89°C | 230.32V |
| 10 | 62.370A | 8.974A | 8.886A | 3.005A | 850.076 | 01.2200/ | 1745 | 45.4 | 45.30°C | 0.982 |
| 10 | 12.191V | 5.016V | 3.343V | 4.993V | 930.692 | 91.338% | 1745 | (dB[A]) <6.0 12.8 17.1 23.1 29.1 34.1 39.0 38.4 43.0 45.4 46.5 | 57.29°C | 230.36V |
| 11 | 69.359A | 8.983A | 8.896A | 3.009A | 934.864 | 00.0020/ | 1020 | 46.5 | 46.36°C | 0.983 |
| 11 | 12.185V | 5.011V | 3.339V | 4.987V | 1028.535 | 90.893% | 1830 | 17.1 23.1 29.1 34.1 39.0 38.4 43.0 45.4 46.5 | 59.38°C | 230.38V |
| CL 1 | 0.156A | 14.003A | 14.002A | 0.000A | 120.165 | 05 60107 | 0 | 0 | 47.63°C | 0.863 |
| CL1 | 12.259V | 5.064V | 3.381V | 5.125V | 140.230 | 85.691% | 0 | U | 42.18°C | 230.57V |
| CI 2 | 70.524A | 1.004A | 1.000A | 1.000A | 873.507 | 01.6710/ | 1000 | 46.0 | 45.06°C | 0.982 |
| CL2 | 12.195V | 5.028V | 3.353V | 5.066V | 952.868 | 91.671% | 1800 | 46.0 | 57.20°C | 230.33V |

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

PAGE 14/16

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

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



Anex

Gigabyte Aorus 850

| 20-80W LOAD TESTS 230V | | | | | | | | | |
|------------------------|---------|--------|--------|--------|------------------|------------|--------------------|----------------------|-------------|
| Test# | 12V | 5V | 3.3V | 5VSB | DC/AC (Watts) | Efficiency | Fan Speed (RPM) | PSU Noise (dB[A]) | PF/AC Volts |
| - | 1.175A | 0.491A | 0.469A | 0.194A | 19.506 | 64.7550/ | 0 | <6.0 | 0.453 |
| 1 | 12.267V | 5.088V | 3.403V | 5.144V | 30.123 | 64.755% | | | 230.46V |
| 2 | 2.415A | 0.982A | 0.969A | 0.389A | 39.915 | 70 5050/ | | <6.0 | 0.595 |
| 2 | 12.268V | 5.086V | 3.401V | 5.136V | 50.831 | 78.525% | 0 | | 230.44V |
| 2 | 3.590A | 1.475A | 1.441A | 0.585A | 59.431 | 02.0560/ | 0 | | 0.700 |
| 3 | 12.266V | 5.084V | 3.399V | 5.128V | 70.873 | 83.856% | 0 | <6.0 | 230.29V |
| 4 | 4.831A | | 0 | | 0.776 | | | | |
| 4 | 12.265V | 5.083V | 3.398V | 5.120V | 92.426 | 86.387% | 0 | <6.0 | 230.44V |

| RIPPLE MEASUREMENTS 230V | | | | | | | | |
|--------------------------|----------|---------|---------|--------|-----------|--|--|--|
| Test | 12V | 5V | 3.3V | 5VSB | Pass/Fail | | | |
| 10% Load | 3.5 mV | 5.5 mV | 9.4 mV | 4.1 mV | Pass | | | |
| 20% Load | 23.0 mV | 6.5 mV | 9.5 mV | 5.4 mV | Pass | | | |
| 30% Load | 7.3 mV | 5.2 mV | 9.3 mV | 4.1 mV | Pass | | | |
| 40% Load | 5.8 mV | 7.0 mV | 9.3 mV | 5.7 mV | Pass | | | |
| 50% Load | 5.6 mV | 7.6 mV | 9.7 mV | 5.1 mV | Pass | | | |
| 60% Load | 5.4 mV | 7.7 mV | 10.4 mV | 5.1 mV | Pass | | | |
| 70% Load | 5.5 mV | 7.9 mV | 11.3 mV | 5.0 mV | Pass | | | |
| 80% Load | 6.1 mV | 7.8 mV | 10.5 mV | 4.7 mV | Pass | | | |
| 90% Load | 7.0 mV | 9.5 mV | 13.1 mV | 5.9 mV | Pass | | | |
| 100% Load | 10.2 mV | 13.9 mV | 14.0 mV | 7.7 mV | Pass | | | |
| 110% Load | 116.4 mV | 14.9 mV | 15.3 mV | 9.7 mV | Pass | | | |
| Crossload 1 | 26.3 mV | 16.4 mV | 16.7 mV | 6.2 mV | Pass | | | |
| Crossload 2 | 9.5 mV | 10.7 mV | 13.0 mV | 5.9 mV | Pass | | | |

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

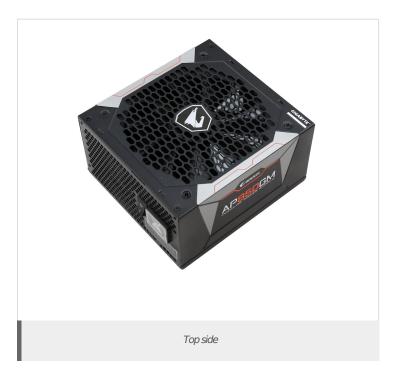
PAGE 15/16

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

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

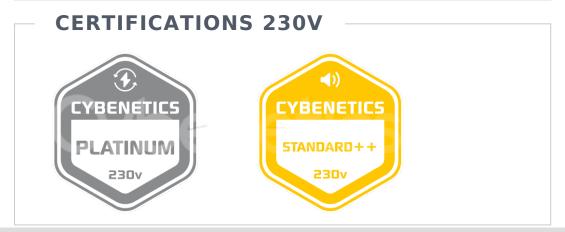
Anex

Gigabyte Aorus 850









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
- $\,{}^{\backprime}$ The link to the original test results document should be provided in any case

PAGE 16/16