

**GIGABYTE™**

## Gigabyte P750GM (#2)

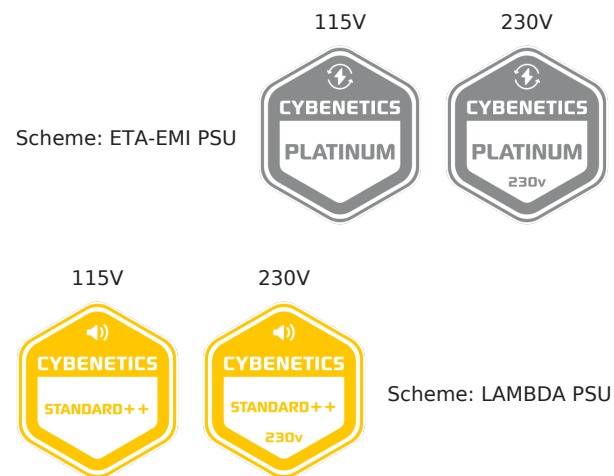
21033G004789

Lab ID GB75001914

Certification ID 251914

Test Result Report ID: 21PS1914A

Certificate Issue Date: Oct 5, 2021



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                             |  | Gigabyte     |
| Model                             |  | P750GM (#2)  |
| OEM/ODM                           |  | MEIC         |
| Serial Number                     |  | 21033G004789 |
| Product Specifications            |  |              |
| Manufacturer-Provided Information |  |              |
| □□□□ (Vrms)                       |  | 100-240      |
| □□□□ (Arms)                       |  | 12-6         |
| □□□□ (Hz)                         |  | 50-60        |

|                                                   |                                                                                     |
|---------------------------------------------------|-------------------------------------------------------------------------------------|
| □□□□ (W)                                          | 750                                                                                 |
| Operating Temperature (Continuous Full Load) (°C) |                                                                                     |
| □□                                                | ATX12V                                                                              |
| □□□□                                              | Fully Modular                                                                       |
| Warranty                                          | -                                                                                   |
| Cybenetics Measurements                           |                                                                                     |
| Dimensions (W x H x D)                            |                                                                                     |
| Weight                                            |                                                                                     |
| □□                                                | 120mm Rifle Bearing Fan<br>(D12SH-12)                                               |
| □□□□                                              | ✓                                                                                   |
| Cybenetics Testing Information                    |                                                                                     |
| Lab ID                                            | GB75001914                                                                          |
| Date of receipt                                   | Sep 7, 2021                                                                         |
| Testing Date                                      | Oct 4, 2021                                                                         |
| Report Issued Date                                | Oct 5, 2021                                                                         |
| Engineer Name                                     | -                                                                                   |
| Authorized By the Laboratory Technical Manager    | Aristeidis Bitziopoulos                                                             |
| Signature                                         |  |

□□□□ (Non-accredited measurements)

| □□□□                                           |      |       |       |                     |
|------------------------------------------------|------|-------|-------|---------------------|
| □□                                             | □□□□ | □□□□□ | Gauge | In Cable Capacitors |
| ATX □□ 20+4 pin (600mm)                        | 1    | 1     | 18AWG | □                   |
| 4+4 pin EPS 12V □□ (600mm)                     | 2    | 2     | 18AWG | □                   |
| 6+2pin PCIe□□ (600mm+150mm)                    | 2    | 4     | 18AWG | □                   |
| SATA□□ (600mm+150mm+150mm+150mm)               | 2    | 8     | 18AWG | □                   |
| 4-pin Molex (500mm+110mm+110mm) / FDD (+150mm) | 1    | 3 / 1 | 18AWG | □                   |
| AC Power Cord (1380mm) - C13 coupler           | 1    | 1     | 18AWG | -                   |



|          |    |      |    |     |      |      |
|----------|----|------|----|-----|------|------|
| □        |    | 3.3V | 5V | 12V | 5VSB | -12V |
| □□□□     | □□ | 20   | 20 | 61  | 3    | 0.3  |
|          | □  | 105  |    | 732 | 15   | 3.6  |
| □□□□ (W) |    | 750  |    |     |      |      |

Parts Description

|                      |                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Data         | -                                                                                                                                                                                     |
| Manufacturer (OEM)   | MEIC                                                                                                                                                                                  |
| PCB Type             | Double Sided                                                                                                                                                                          |
| Primary Side         | -                                                                                                                                                                                     |
| Transient Filter     | 4x Y caps, 2x X caps, 2x CM chokes, 1x MOV, 1x Chipown PN8200 (Discharge IC)                                                                                                          |
| Inrush Protection    | NTC Thermistor 5D-15 (5 Ohm) & Relay                                                                                                                                                  |
| Bridge Rectifier(s)  | 2x GBU1006 (600V, 10A @ 100°C)                                                                                                                                                        |
| APFC MOSFETs         | 2x Jilin Sino-Microelectronics JCS18N50FH (500V, 11A @ 100°C, Rds(on): 0.27Ohm)                                                                                                       |
| APFC Boost Diode     | 1x JFSC0665                                                                                                                                                                           |
| Bulk Cap(s)          | 1x Nippon Chemi-Con (400V, 680uF, 2,000h @ 105°C, KMW)                                                                                                                                |
| Main Switchers       | 2x Jilin Sino-Microelectronics JCS18N50FH (500V, 11A @ 100°C, Rds(on): 0.27Ohm)                                                                                                       |
| APFC Controller      | Champion CM6500UNX                                                                                                                                                                    |
| Resonant Controller  | Champion CM6901X                                                                                                                                                                      |
| Topology             | Primary side: APFC, Half-Bridge & LLC converter<br>Secondary side: Synchronous Rectification & DC-DC converters                                                                       |
| Secondary Side       | -                                                                                                                                                                                     |
| +12V MOSFETs         | 4x NCE Power NCEP40T15GU (40V, 106A @ 100°C, Rds(on): 1.35mOhm)                                                                                                                       |
| 5V & 3.3V            | DC-DC Converters: 4x Alpha & Omega AON6354 (30V, 52A @ 100°C, Rds(on): 3.3mOhm)<br>PWM Controllers: 2x uPI-Semi uP9303B                                                               |
| Filtering Capacitors | Electrolytic: 1x Chn Cap (4-10,000h @ 105°C, TY), 1x Chn Cap (3-7,000h @ 105°C, TP), 4x Chn Cap (2-5,000h @ 105°C, TM), 5x YC (105°C, LE), 2x KYS (105°C, SG)<br>Polymer: 12x no info |
| Supervisor IC        | Grenergy GR8313 (OVP, UVP, SCP, PG)                                                                                                                                                   |
| Fan Model            | Yate Loon D12SH-12 (120mm, 12V, 0.30A, Rifle Bearing Fan)                                                                                                                             |
| 5VSB Circuit         | -                                                                                                                                                                                     |

|                        |                                               |
|------------------------|-----------------------------------------------|
| Rectifier              | 1x JF Semiconductor SP10U45L-T SBR (45V, 10A) |
| Standby PWM Controller | PR8109T                                       |

## Test Results

### Temperature & Compliance Info

|                       |                   |
|-----------------------|-------------------|
| □□□□ (°C /°F)         | 28-32 / 82.4-89.6 |
| □□ ErP Lot3/6□□       | ✓                 |
| □□ (EU) No 617/2013□□ | ✓                 |

### Performance Summary

#### 115V

|                                                |          |
|------------------------------------------------|----------|
| Accredited                                     |          |
| □□□□ (>1450 load combinations)                 | 89.163%  |
| Average Noise Output (>1450 Load Combinations) | 33.68dBA |
| PF□□□ (>1450 Load Combinations)                | 0.981    |
| Efficiency With 10W (≤500W) or 2% (>500W) Load | 55.729%  |
| □□□□□                                          | 0.0514W  |
| Non-Accredited                                 |          |
| 12V Ripple (Full Load)                         | 29.12mV  |
| 5V Ripple (Full Load)                          | 22.78mV  |
| 3.3V Ripple (Full Load)                        | 24.62mV  |
| 5VSB Ripple (Full Load)                        | 25.02mV  |
| 12V Load Regulation                            | 0.42%    |
| 5V Load Regulation                             | 1.24%    |
| 3.3V Load Regulation                           | 2.50%    |
| 5VSB Load Regulation                           | 1.40%    |
| Inrush Current                                 | 34.490A  |

230V

|                                                |          |         |
|------------------------------------------------|----------|---------|
| Accredited                                     |          |         |
| THD (%) (>1450 load combinations)              | 91.305%  |         |
| Average Noise Output (>1450 Load Combinations) | 33.54dBA |         |
| PF (%) (>1450 Load Combinations)               | 0.950    |         |
| Efficiency With 10W (≤500W) or 2% (>500W) Load | -        |         |
| THD (%)                                        | 0.1484W  |         |
| Non-Accredited                                 |          |         |
| 12V Ripple (Full Load)                         | 28.50mV  |         |
| 5V Ripple (Full Load)                          | 32.07mV  |         |
| 3.3V Ripple (Full Load)                        | 24.31mV  |         |
| 5VSB Ripple (Full Load)                        | 24.72mV  |         |
| 12V Load Regulation                            | 0.51%    |         |
| 5V Load Regulation                             | 1.42%    |         |
| 3.3V Load Regulation                           | 2.53%    |         |
| 5VSB Load Regulation                           | 1.40%    |         |
| Inrush Current                                 | 81.260A  |         |
| THD (%) & PG (%)                               | 16.20ms  |         |
| AC Loss to PWR_OK Hold Up Time                 | 14.60ms  |         |
| PWR_OK Inactive to DC Loss Delay               | 1.60ms   |         |
| PSU Timings: T1 (20% / 100%)                   | 80.0ms   | 78.0ms  |
| PSU Timings: T3 (20% / 100%)                   | 264.0ms  | 266.0ms |
| OPP (25.00°C / 38.00°C)                        | 112.01%  | 115.94% |

□□□□ & PG□□

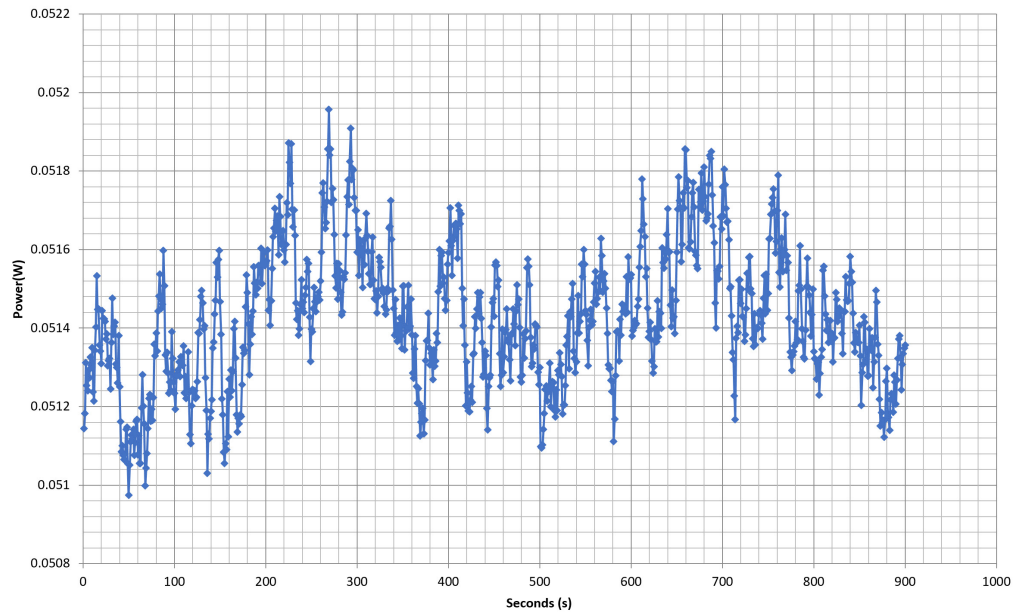
|                                       |      |
|---------------------------------------|------|
| Hold-Up Time (ms)                     | 16.2 |
| AC Loss to PWR_OK Hold Up Time (ms)   | 14.6 |
| PWR_OK Inactive to DC Loss Delay (ms) | 1.6  |



## Graphs

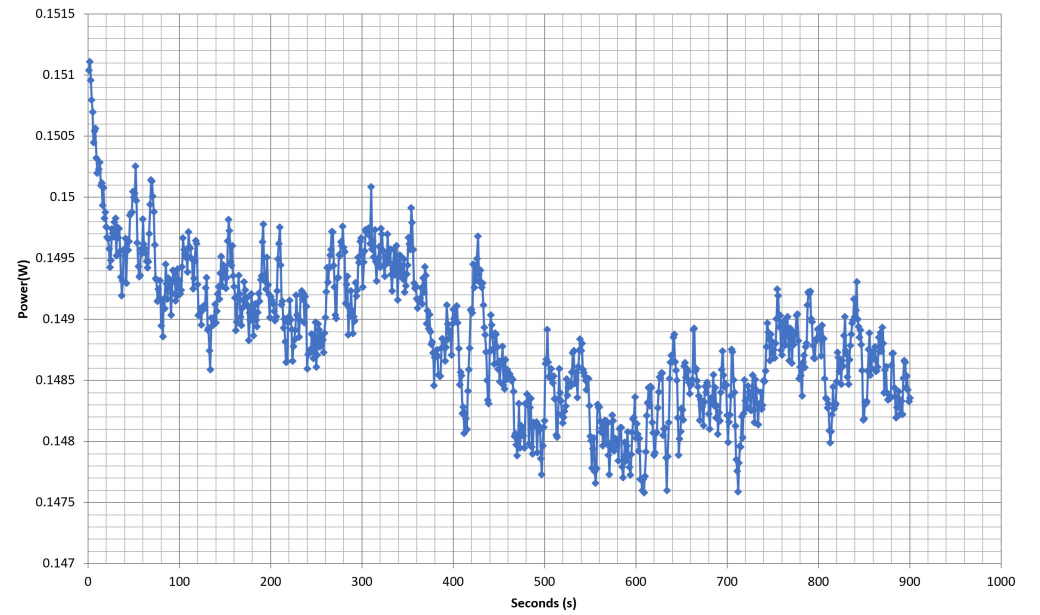
115V

Power - 21033G004789 - 28/09/2021 - 09:01



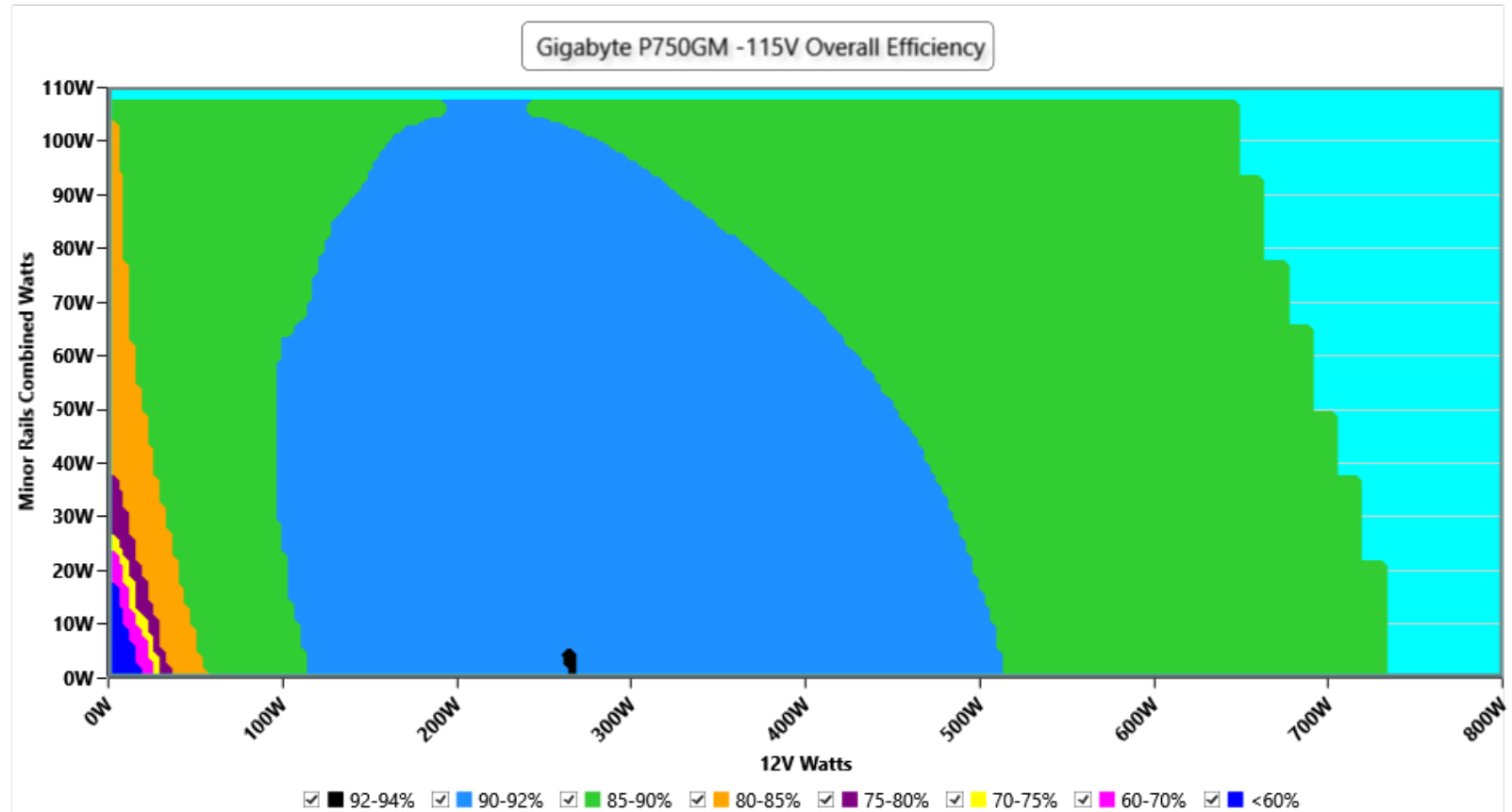
230V

Power - 21033G004789 - 28/09/2021 - 09:01

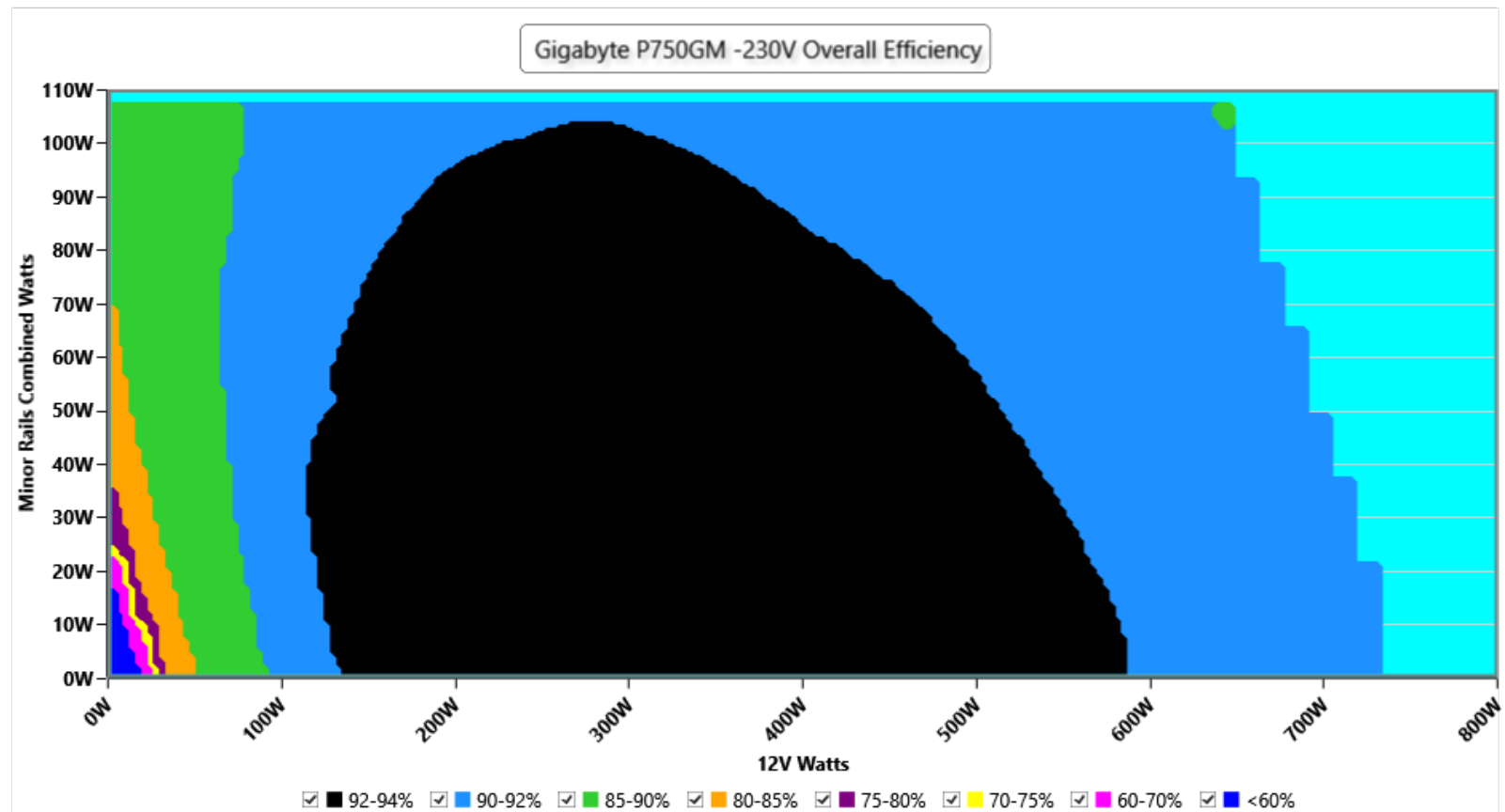




115V



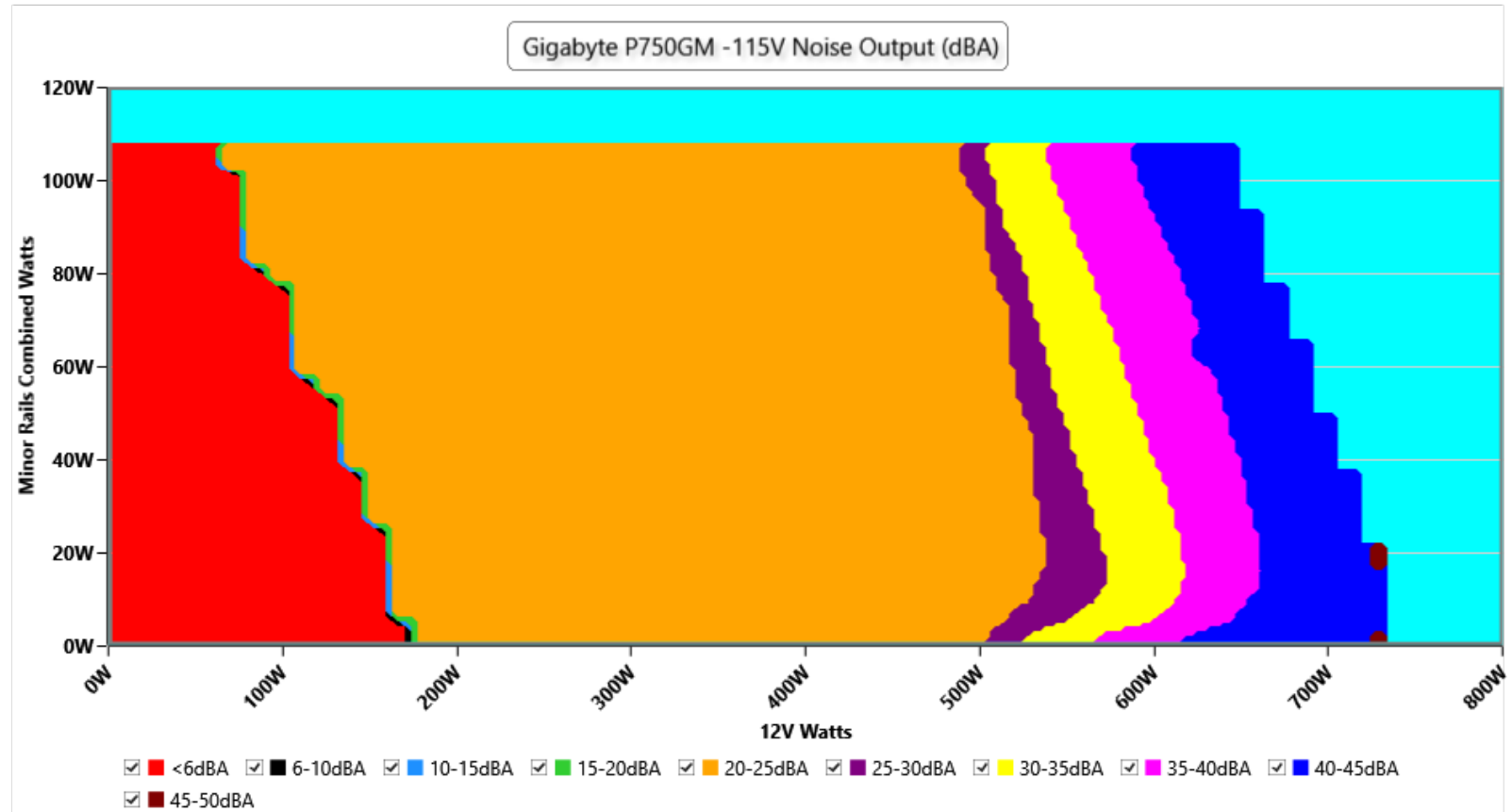
This graph depicts the PSU's efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations



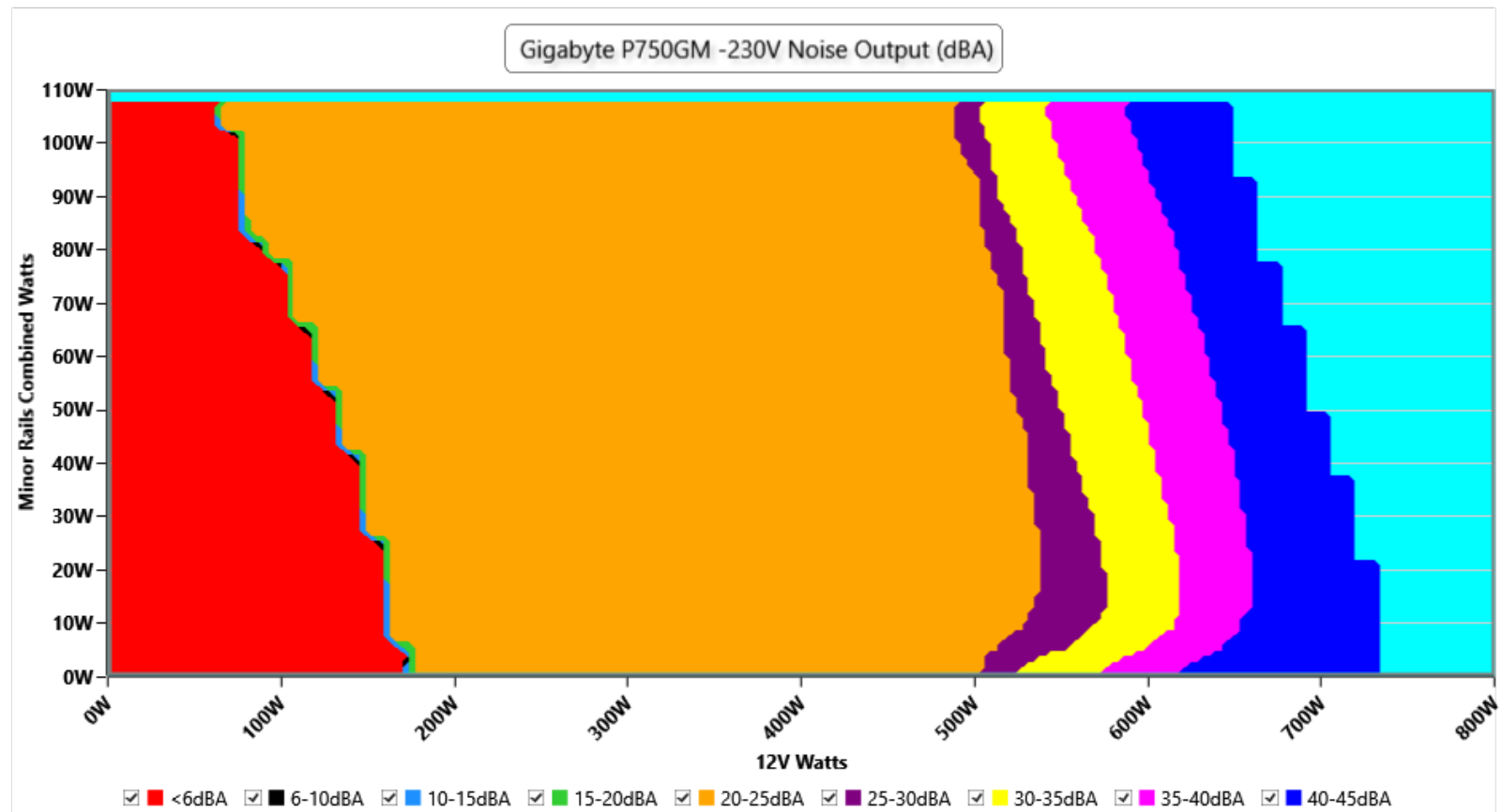
This graph depicts the PSU's efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations



115V

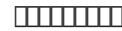


The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails



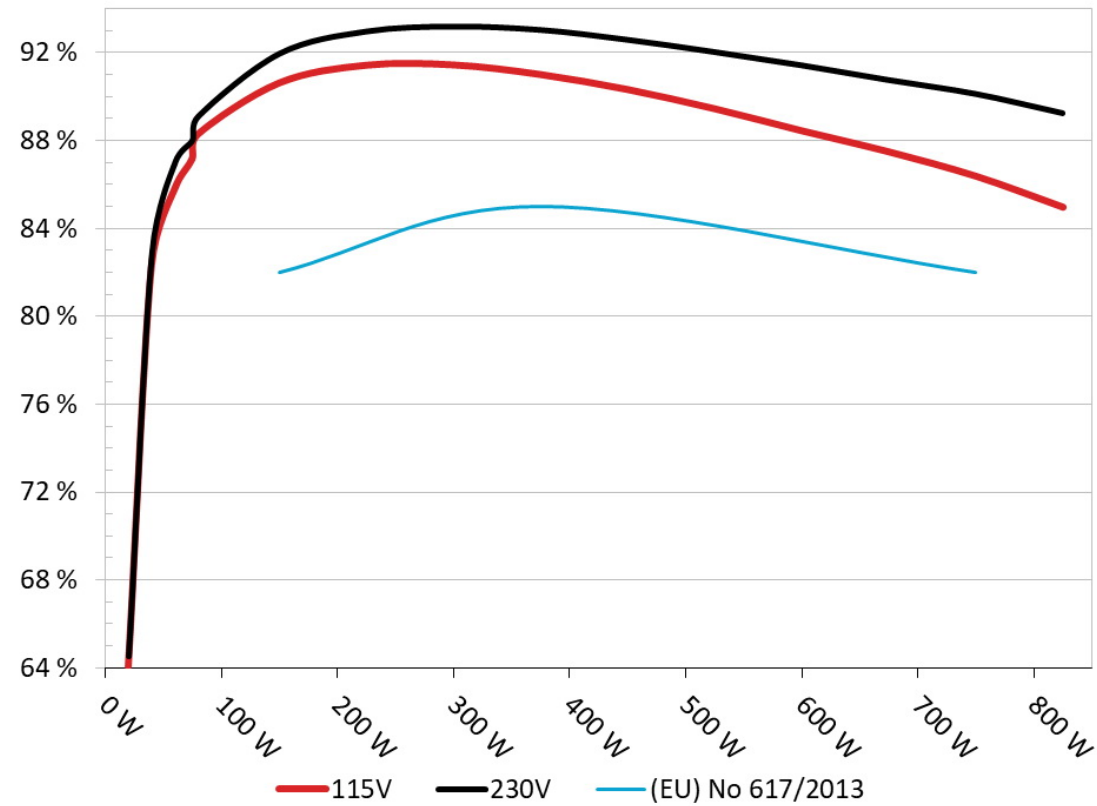
The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

## Indicative Performance



### Efficiency: Gigabyte P750GM

Ambient: 37°C - 47°C (98.6°F - 116.6°F)

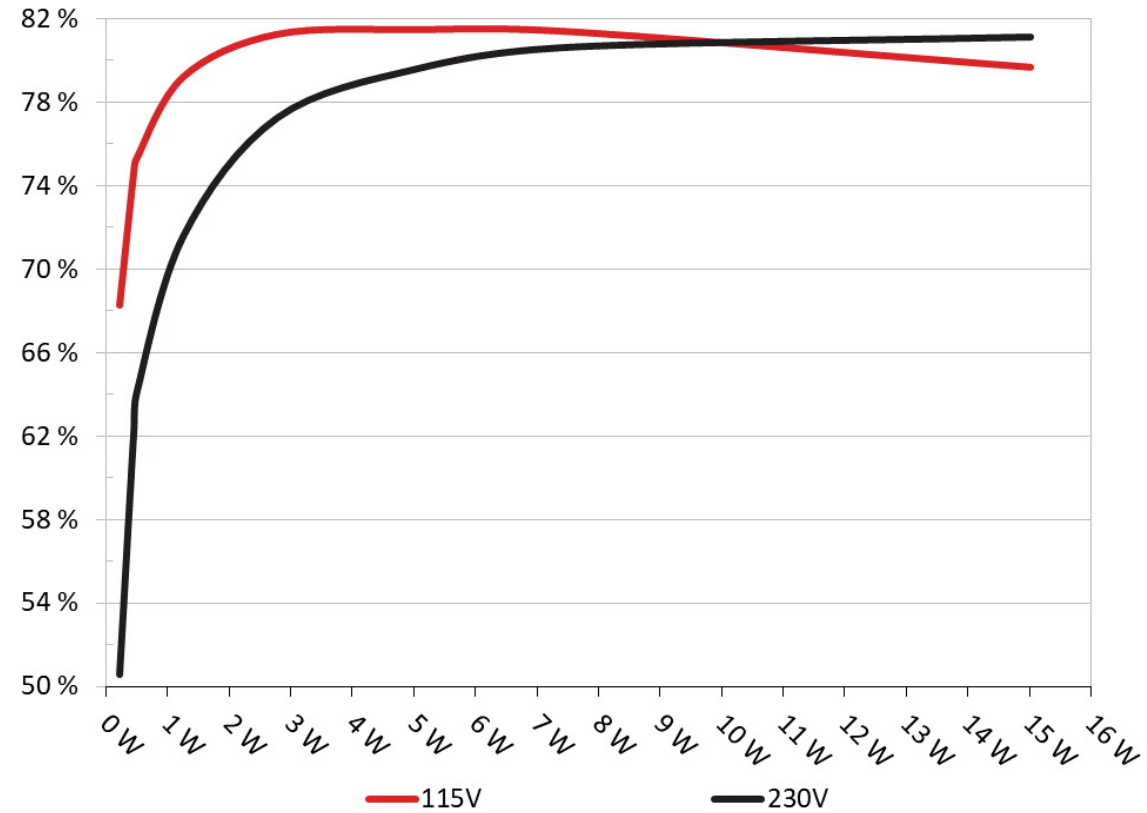


The PSU's efficiency under high ambient temperatures with 115V and 230V input. For this graph the results of the 10-110% load regulation table are used

### 5Vsb

#### 5VSB Efficiency: Gigabyte P750GM

Ambient: 34°C - 36°C (93.2°F - 96.8°F)



This graph depicts the efficiency levels of the 5VSB rail with 115V and 230V input

5Vsb (ErP Lot3/6 & CEC)

115V

| # | 5VSB   | DC/AC (%) |         | PF/AC   |
|---|--------|-----------|---------|---------|
| 1 | 0.045A | 0.228W    | 68.249% | 0.046   |
|   | 5.066V | 0.334W    |         | 115.13V |
| 2 | 0.09A  | 0.456W    | 74.574% | 0.083   |
|   | 5.065V | 0.611W    |         | 115.13V |
| 3 | 0.55A  | 2.782W    | 81.228% | 0.291   |
|   | 5.056V | 3.425W    |         | 115.13V |
| 4 | 1A     | 5.048W    | 81.449% | 0.377   |
|   | 5.047V | 6.198W    |         | 115.12V |
| 5 | 1.5A   | 7.556W    | 81.351% | 0.424   |
|   | 5.037V | 9.288W    |         | 115.12V |
| 6 | 3.001A | 15.016W   | 79.65%  | 0.479   |
|   | 5.005V | 18.853W   |         | 115.12V |

230V

| # | 5VSB   | DC/AC (%) |         | PF/AC   |
|---|--------|-----------|---------|---------|
| 1 | 0.045A | 0.228W    | 50.55%  | 0.019   |
|   | 5.066V | 0.451W    |         | 230.25V |
| 2 | 0.09A  | 0.456W    | 62.119% | 0.03    |
|   | 5.065V | 0.734W    |         | 230.25V |
| 3 | 0.55A  | 2.782W    | 77.238% | 0.136   |
|   | 5.057V | 3.602W    |         | 230.25V |
| 4 | 1A     | 5.048W    | 79.594% | 0.205   |
|   | 5.048V | 6.342W    |         | 230.25V |
| 5 | 1.5A   | 7.556W    | 80.64%  | 0.263   |
|   | 5.037V | 9.37W     |         | 230.25V |
| 6 | 3.001A | 15.018W   | 81.126% | 0.355   |
|   | 5.006V | 18.513W   |         | 230.25V |

## Supplementary Tests (For Reference)

10-110%□□□

115V

| □□   | 12V     | 5V      | 3.3V    | 5VSB   | DC/AC (□ ) | □□      | □□□ (RPM) | □□□□□ (dB[A]) | □□ (□□ /□□ ) | PF/AC □□ |
|------|---------|---------|---------|--------|------------|---------|-----------|---------------|--------------|----------|
| 10%  | 4.450A  | 1.939A  | 1.94A   | 0.992A | 75.014     | 87.158% | 0         | <6.0          | 45.57°C      | 0.953    |
|      | 12.001V | 5.158V  | 3.403V  | 5.041V | 86.067     |         |           |               | 40.17°C      | 115.12V  |
| 20%  | 9.920A  | 2.912A  | 2.916A  | 1.192A | 149.975    | 90.614% | 0         | <6.0          | 46.84°C      | 0.973    |
|      | 12.003V | 5.153V  | 3.395V  | 5.036V | 165.51     |         |           |               | 41.03°C      | 115.12V  |
| 30%  | 15.754A | 3.403A  | 3.411A  | 1.392A | 224.991    | 91.419% | 926       | 23.5          | 41.62°C      | 0.98     |
|      | 11.993V | 5.143V  | 3.387V  | 5.031V | 246.11     |         |           |               | 47.87°C      | 115.12V  |
| 40%  | 21.600A | 3.896A  | 3.907A  | 1.592A | 300.09     | 91.434% | 928       | 23.6          | 42.15°C      | 0.985    |
|      | 11.986V | 5.135V  | 3.378V  | 5.026V | 328.205    |         |           |               | 48.84°C      | 115.11V  |
| 50%  | 27.054A | 4.876A  | 4.897A  | 1.793A | 374.726    | 90.997% | 931       | 23.7          | 42.56°C      | 0.985    |
|      | 11.985V | 5.128V  | 3.37V   | 5.021V | 411.8      |         |           |               | 49.59°C      | 115.11V  |
| 60%  | 32.530A | 5.859A  | 5.893A  | 1.994A | 449.632    | 90.317% | 938       | 23.9          | 43.08°C      | 0.987    |
|      | 11.984V | 5.122V  | 3.361V  | 5.016V | 497.839    |         |           |               | 50.84°C      | 115.11V  |
| 70%  | 38.007A | 6.844A  | 6.893A  | 2.196A | 524.565    | 89.445% | 1239      | 32.1          | 43.28°C      | 0.987    |
|      | 11.983V | 5.115V  | 3.352V  | 5.011V | 586.467    |         |           |               | 51.33°C      | 115.1V   |
| 80%  | 43.558A | 7.833A  | 7.897A  | 2.297A | 599.78     | 88.44%  | 1867      | 43.9          | 44.34°C      | 0.988    |
|      | 11.981V | 5.109V  | 3.343V  | 5.007V | 678.177    |         |           |               | 52.86°C      | 115.1V   |
| 90%  | 49.438A | 8.333A  | 8.397A  | 2.399A | 674.83     | 87.482% | 1990      | 45.7          | 44.42°C      | 0.989    |
|      | 11.981V | 5.102V  | 3.335V  | 5.004V | 771.392    |         |           |               | 53.54°C      | 115.1V   |
| 100% | 55.119A | 8.835A  | 8.93A   | 3.007A | 750.052    | 86.371% | 1991      | 45.7          | 45.88°C      | 0.989    |
|      | 11.980V | 5.095V  | 3.326V  | 4.99V  | 868.414    |         |           |               | 55.78°C      | 115.1V   |
| 110% | 60.659A | 9.829A  | 10.039A | 3.008A | 825.078    | 84.962% | 1992      | 45.8          | 46.9°C       | 0.991    |
|      | 11.981V | 5.089V  | 3.317V  | 4.988V | 971.119    |         |           |               | 57.57°C      | 115.09V  |
| CL1  | 0.117A  | 12.248A | 12.319A | 0A     | 106.331    | 85.043% | 321       | <6.0          | 42.07°C      | 0.966    |
|      | 12.012V | 5.162V  | 3.385V  | 5.059V | 125.032    |         |           |               | 49.24°C      | 115.13V  |

|     |         |         |         |        |         |         |      |      |         |         |
|-----|---------|---------|---------|--------|---------|---------|------|------|---------|---------|
| CL2 | 0.117A  | 19.367A | 0A      | 0A     | 101.433 | 83.436% | 277  | <6.0 | 43.76°C | 0.965   |
|     | 12.018V | 5.165V  | 3.394V  | 5.061V | 121.57  |         |      |      | 51.78°C | 115.13V |
| CL3 | 0.116A  | 0A      | 19.519A | 0.001A | 67.396  | 78.561% | 0    | <6.0 | 53.88°C | 0.955   |
|     | 12.016V | 5.154V  | 3.381V  | 5.058V | 85.789  |         |      |      | 44.8°C  | 115.13V |
| CL4 | 62.583A | 0A      | 0A      | 0.001A | 749.787 | 87.215% | 1989 | 45.7 | 45.02°C | 0.99    |
|     | 11.981V | 5.095V  | 3.34V   | 5.053V | 859.708 |         |      |      | 55.12°C | 115.1V  |

The results above are not used in the certification process

### 230V

| □□   | 12V     | 5V     | 3.3V   | 5VSB   | DC/AC (□ ) | □□      | □□□ (RPM) | □□□□□ (dB[A]) | □□ (□□ /□□ ) | PF/AC □□ |
|------|---------|--------|--------|--------|------------|---------|-----------|---------------|--------------|----------|
| 10%  | 4.450A  | 1.942A | 1.94A  | 0.992A | 75.012     | 88.018% | 0         | <6.0          | 45.42°C      | 0.847    |
|      | 12.001V | 5.15V  | 3.402V | 5.04V  | 85.223     |         |           |               | 40.23°C      | 230.26V  |
| 20%  | 9.918A  | 2.916A | 2.917A | 1.192A | 149.969    | 91.954% | 0         | <6.0          | 46.5°C       | 0.917    |
|      | 12.004V | 5.144V | 3.394V | 5.034V | 163.091    |         |           |               | 41.08°C      | 230.26V  |
| 30%  | 15.749A | 3.408A | 3.412A | 1.392A | 224.984    | 92.963% | 934       | 23.8          | 41.53°C      | 0.946    |
|      | 11.996V | 5.136V | 3.386V | 5.03V  | 242.014    |         |           |               | 47.23°C      | 230.25V  |
| 40%  | 21.594A | 3.901A | 3.909A | 1.592A | 300.08     | 93.188% | 933       | 23.8          | 41.87°C      | 0.957    |
|      | 11.988V | 5.127V | 3.377V | 5.025V | 322.016    |         |           |               | 48.27°C      | 230.25V  |
| 50%  | 27.048A | 4.883A | 4.899A | 1.793A | 374.703    | 93.032% | 937       | 23.9          | 42.28°C      | 0.966    |
|      | 11.986V | 5.121V | 3.368V | 5.02V  | 402.767    |         |           |               | 49.14°C      | 230.25V  |
| 60%  | 32.527A | 5.867A | 5.894A | 1.994A | 449.612    | 92.588% | 943       | 24.1          | 42.65°C      | 0.97     |
|      | 11.984V | 5.115V | 3.36V  | 5.015V | 485.607    |         |           |               | 50.12°C      | 230.25V  |
| 70%  | 38.009A | 6.854A | 6.895A | 2.196A | 524.549    | 92.032% | 1217      | 31.8          | 43.18°C      | 0.974    |
|      | 11.983V | 5.108V | 3.351V | 5.01V  | 569.965    |         |           |               | 51.26°C      | 230.25V  |
| 80%  | 43.564A | 7.845A | 7.9A   | 2.298A | 599.762    | 91.425% | 1581      | 39.2          | 43.99°C      | 0.976    |
|      | 11.979V | 5.101V | 3.342V | 5.006V | 656.015    |         |           |               | 52.53°C      | 230.25V  |
| 90%  | 49.452A | 8.345A | 8.399A | 2.4A   | 674.828    | 90.754% | 1997      | 45.8          | 44.49°C      | 0.978    |
|      | 11.977V | 5.094V | 3.334V | 5.002V | 743.583    |         |           |               | 53.7°C       | 230.25V  |
| 100% | 55.132A | 8.848A | 8.933A | 3.008A | 750.023    | 90.121% | 1999      | 45.8          | 45.43°C      | 0.98     |
|      | 11.977V | 5.088V | 3.325V | 4.988V | 832.238    |         |           |               | 55.38°C      | 230.25V  |

|      |         |         |         |        |         |         |      |      |         |         |
|------|---------|---------|---------|--------|---------|---------|------|------|---------|---------|
| 110% | 60.678A | 9.843A  | 10.042A | 3.009A | 825.039 | 89.245% | 1995 | 45.8 | 46.6°C  | 0.982   |
|      | 11.976V | 5.082V  | 3.316V  | 4.987V | 924.471 |         |      |      | 57.29°C | 230.25V |
| CL1  | 0.117A  | 12.267A | 12.32A  | 0A     | 106.328 | 85.985% | 270  | <6.0 | 42.02°C | 0.894   |
|      | 12.008V | 5.154V  | 3.385V  | 5.057V | 123.66  |         |      |      | 49.98°C | 230.25V |
| CL2  | 0.117A  | 19.371A | 0A      | 0A     | 101.432 | 84.664% | 289  | <6.0 | 43.67°C | 0.891   |
|      | 12.015V | 5.164V  | 3.393V  | 5.059V | 119.805 |         |      |      | 52.66°C | 230.25V |
| CL3  | 0.116A  | 0A      | 19.535A | 0.001A | 67.396  | 79.108% | 0    | <6.0 | 54.52°C | 0.848   |
|      | 12.016V | 5.145V  | 3.378V  | 5.056V | 85.196  |         |      |      | 44.91°C | 230.25V |
| CL4  | 62.599A | 0A      | 0A      | 0.001A | 749.779 | 90.713% | 1995 | 45.8 | 45.36°C | 0.98    |
|      | 11.977V | 5.085V  | 3.34V   | 5.052V | 826.539 |         |      |      | 55.67°C | 230.24V |

The results above are not used in the certification process

20-80

115V

|     | 12V     | 5V     | 3.3V   | 5VSB   | DC/AC ( ) |         | (RPM) | (dB[A]) | ( / )   | PF/AC   |
|-----|---------|--------|--------|--------|-----------|---------|-------|---------|---------|---------|
| 20W | 1.236A  | 0.485A | 0.484A | 0.198A | 20.009    | 64.075% | 0     | <6.0    | 39.93°C | 0.893   |
|     | 12.030V | 5.158V | 3.409V | 5.06V  | 31.227    |         |       |         | 36.77°C | 115.13V |
| 40W | 2.725A  | 0.679A | 0.678A | 0.297A | 40.01     | 82.319% | 0     | <6.0    | 41.28°C | 0.921   |
|     | 11.999V | 5.158V | 3.407V | 5.056V | 48.603    |         |       |         | 37.63°C | 115.13V |
| 60W | 4.212A  | 0.873A | 0.872A | 0.396A | 60.01     | 85.807% | 0     | <6.0    | 43.26°C | 0.944   |
|     | 11.997V | 5.157V | 3.405V | 5.054V | 69.936    |         |       |         | 38.94°C | 115.12V |
| 80W | 5.696A  | 1.067A | 1.066A | 0.495A | 79.974    | 88.282% | 0     | <6.0    | 44.59°C | 0.957   |
|     | 11.999V | 5.157V | 3.404V | 5.051V | 90.589    |         |       |         | 39.6°C  | 115.12V |

The results above are not used in the certification process

230V

| □□  | 12V     | 5V     | 3.3V   | 5VSB   | DC/AC (□□ ) | □□      | □□□□ (RPM) | □□□□□□ (dB[A]) | □□ (□□ /□□ ) | PF/AC □□ |
|-----|---------|--------|--------|--------|-------------|---------|------------|----------------|--------------|----------|
| 20W | 1.234A  | 0.485A | 0.484A | 0.198A | 20.01       | 64.522% | 0          | <6.0           | 40.23°C      | 0.639    |
|     | 12.037V | 5.16V  | 3.409V | 5.058V | 31.013      |         |            |                | 36.96°C      | 230.26V  |
| 40W | 2.724A  | 0.678A | 0.678A | 0.297A | 40.01       | 82.874% | 0          | <6.0           | 41.63°C      | 0.745    |
|     | 12.005V | 5.159V | 3.406V | 5.055V | 48.279      |         |            |                | 37.67°C      | 230.26V  |
| 60W | 4.212A  | 0.872A | 0.872A | 0.396A | 60.011      | 87.01%  | 0          | <6.0           | 42.6°C       | 0.813    |
|     | 12.001V | 5.158V | 3.404V | 5.052V | 68.97       |         |            |                | 38.39°C      | 230.26V  |
| 80W | 5.694A  | 1.068A | 1.066A | 0.495A | 79.975      | 89.101% | 0          | <6.0           | 44.64°C      | 0.854    |
|     | 12.002V | 5.149V | 3.404V | 5.05V  | 89.758      |         |            |                | 39.87°C      | 230.26V  |

The results above are not used in the certification process

□□□□

115V

| Test       | 12V     | 5V      | 3.3V    | 5VSB    | Pass/Fail |
|------------|---------|---------|---------|---------|-----------|
| 10% Load   | 49.18mV | 14.35mV | 16.11mV | 18.12mV | Pass      |
| 20% Load   | 27.41mV | 17.88mV | 16.47mV | 17.76mV | Pass      |
| 30% Load   | 16.84mV | 13.84mV | 17.23mV | 19.04mV | Pass      |
| 40% Load   | 17.50mV | 14.61mV | 16.36mV | 21.65mV | Pass      |
| 50% Load   | 16.02mV | 16.86mV | 17.18mV | 20.11mV | Pass      |
| 60% Load   | 19.24mV | 17.52mV | 18.31mV | 20.47mV | Pass      |
| 70% Load   | 19.29mV | 18.80mV | 19.38mV | 22.57mV | Pass      |
| 80% Load   | 20.42mV | 21.50mV | 21.12mV | 25.95mV | Pass      |
| 90% Load   | 21.03mV | 18.39mV | 20.87mV | 23.85mV | Pass      |
| 100% Load  | 29.12mV | 22.78mV | 24.62mV | 25.02mV | Pass      |
| 110% Load  | 31.92mV | 32.39mV | 26.87mV | 25.50mV | Pass      |
| Crossload1 | 41.90mV | 19.43mV | 25.04mV | 22.56mV | Pass      |
| Crossload2 | 39.86mV | 16.70mV | 33.80mV | 21.19mV | Pass      |

| Test       | 12V     | 5V      | 3.3V    | 5VSB    | Pass/Fail |
|------------|---------|---------|---------|---------|-----------|
| Crossload3 | 45.75mV | 15.47mV | 22.45mV | 22.93mV | Pass      |
| Crossload4 | 28.51mV | 18.95mV | 17.49mV | 25.65mV | Pass      |

The results above are not used in the certification process

## 230V

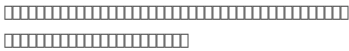
| Test       | 12V     | 5V      | 3.3V    | 5VSB    | Pass/Fail |
|------------|---------|---------|---------|---------|-----------|
| 10% Load   | 49.74mV | 27.42mV | 44.74mV | 18.12mV | Pass      |
| 20% Load   | 29.81mV | 17.62mV | 15.75mV | 17.45mV | Pass      |
| 30% Load   | 16.22mV | 13.89mV | 16.82mV | 19.81mV | Pass      |
| 40% Load   | 15.50mV | 13.69mV | 16.93mV | 21.44mV | Pass      |
| 50% Load   | 15.86mV | 15.22mV | 18.31mV | 20.26mV | Pass      |
| 60% Load   | 18.06mV | 17.47mV | 19.48mV | 20.22mV | Pass      |
| 70% Load   | 18.27mV | 17.06mV | 19.69mV | 22.62mV | Pass      |
| 80% Load   | 19.60mV | 19.41mV | 20.86mV | 25.13mV | Pass      |
| 90% Load   | 21.54mV | 18.18mV | 21.53mV | 25.13mV | Pass      |
| 100% Load  | 28.50mV | 32.07mV | 24.31mV | 24.72mV | Pass      |
| 110% Load  | 30.11mV | 29.53mV | 26.69mV | 25.28mV | Pass      |
| Crossload1 | 42.73mV | 19.74mV | 26.18mV | 23.13mV | Pass      |
| Crossload2 | 39.86mV | 17.11mV | 27.51mV | 21.75mV | Pass      |
| Crossload3 | 43.44mV | 15.37mV | 20.66mV | 22.67mV | Pass      |
| Crossload4 | 27.63mV | 23.37mV | 18.27mV | 26.35mV | Pass      |

The results above are not used in the certification process

### Gigabyte P750GM (#2)



Top side

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### Power specifications label

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