

## 80 PLUS Verification and Testing Report

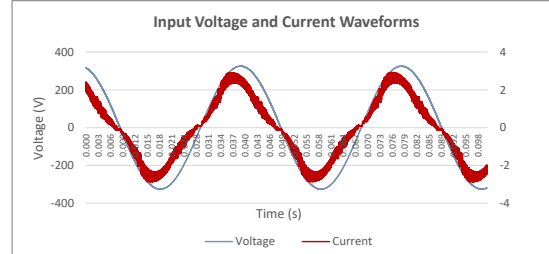
|                                |        |
|--------------------------------|--------|
| TYPICAL EFFICIENCY (50% Load): | 89.83% |
| AVERAGE EFFICIENCY :           | 81.08% |
| AVERAGE STANDBY EFFICIENCY :   | 72.90% |
| 80 PLUS COMPLIANT:             | Bronze |



|               |             |
|---------------|-------------|
| ID Number     | EU-1271     |
| Manufacturer  | Gamer Storm |
| Model Number  | PF650X      |
| Sample 1 S/N: | N/A         |
| Sample 2 S/N: | N/A         |
| Type          | ATX 2.0     |
| Test Date     | 11/17/25    |

| Rated              | Value   | Units |
|--------------------|---------|-------|
| Input Voltage      | 200-240 | Volts |
| Input Current      | 5       | Amps  |
| Input Frequency    | 50-60   | Hz    |
| Rated Output Power | 650     | Watts |

Note: All measurements were taken with input voltage at 230 V nominal at 50 Hz.



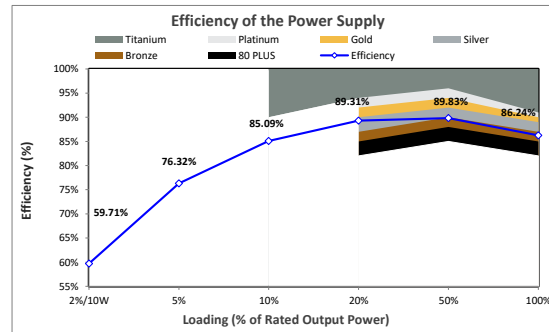
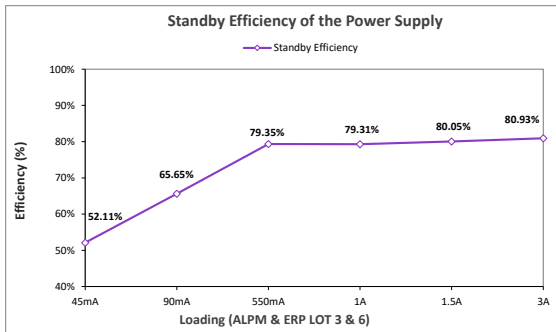
Input AC Current Waveform (THD = 16.77%, 50% Load)

| I <sub>RMS</sub> (A) | PF     | I <sub>THD</sub> (%) | Load   | Input<br>Watts | DC Terminal Voltage (V)/ DC Load Current (A) |              |              |              |             | Output<br>Watts | Efficiency |
|----------------------|--------|----------------------|--------|----------------|----------------------------------------------|--------------|--------------|--------------|-------------|-----------------|------------|
|                      |        |                      |        |                | 12V (cumulative of 12V1, 12V2, etc.)         |              |              |              |             |                 |            |
| 0.103                | 0.4117 | 30.19                | 0%     | 9.74           | No-Load                                      |              |              |              |             |                 |            |
| 0.152                | 0.6327 | 27.43                | 2%/10W | 22.07          | 12.144/0.917                                 | 11.220/0.005 | 3.379/0.204  | 5.110/0.204  | 5.157/0.051 | 13.18           | 59.71%     |
| 0.237                | 0.7932 | 22.86                | 5%     | 43.16          | 12.143/2.291                                 | 11.558/0.013 | 3.376/0.511  | 5.108/0.511  | 5.151/0.127 | 32.94           | 76.32%     |
| 0.381                | 0.8832 | 19.69                | 10%    | 77.39          | 12.142/4.581                                 | 11.575/0.025 | 3.372/1.020  | 5.104/1.020  | 5.140/0.254 | 65.85           | 85.09%     |
| 0.682                | 0.9390 | 16.74                | 20%    | 147.40         | 12.141/9.159                                 | 11.540/0.051 | 3.362/2.041  | 5.095/2.041  | 5.119/0.509 | 131.64          | 89.31%     |
| 1.647                | 0.9658 | 16.77                | 50%    | 365.89         | 12.136/22.896                                | 11.561/0.127 | 3.333/5.106  | 5.068/5.106  | 5.054/1.272 | 328.66          | 89.83%     |
| 3.366                | 0.9820 | 11.88                | 100%   | 760.11         | 12.126/45.789                                | 11.660/0.254 | 3.281/10.214 | 5.019/10.214 | 4.941/2.542 | 655.51          | 86.24%     |

Note: Efficiency data was obtained from Sample 1 (Serial Number: N/A)

| I <sub>RMS</sub> (A) | PF     | I <sub>THD</sub> (%) | Load  | Input<br>Watts | DC Terminal Voltage (V)/ DC Load Current (A) |  |  |  |  | Output<br>Watts | Standby<br>Efficiency |
|----------------------|--------|----------------------|-------|----------------|----------------------------------------------|--|--|--|--|-----------------|-----------------------|
|                      |        |                      |       |                | 5VSB                                         |  |  |  |  |                 |                       |
| 0.067                | 0.0103 | 3.13                 | 0mA   | 0.16           | Vampire Load                                 |  |  |  |  |                 |                       |
| 0.068                | 0.0286 | 9.43                 | 45mA  | 0.45           | 5.170/0.045                                  |  |  |  |  | 0.23            | 52.11%                |
| 0.070                | 0.0435 | 14.92                | 90mA  | 0.71           | 5.168/0.090                                  |  |  |  |  | 0.47            | 65.65%                |
| 0.086                | 0.1816 | 56.63                | 550mA | 3.57           | 5.150/0.550                                  |  |  |  |  | 2.83            | 79.35%                |
| 0.111                | 0.2543 | 73.29                | 1A    | 6.47           | 5.132/1.000                                  |  |  |  |  | 5.13            | 79.31%                |
| 0.144                | 0.2928 | 81.44                | 1.5A  | 9.58           | 5.112/1.500                                  |  |  |  |  | 7.67            | 80.05%                |
| 0.238                | 0.3425 | 88.41                | 3A    | 18.72          | 5.050/3.000                                  |  |  |  |  | 15.15           | 80.93%                |

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: N/A)



These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications.  
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