

# 80 PLUS Verification and Testing Report

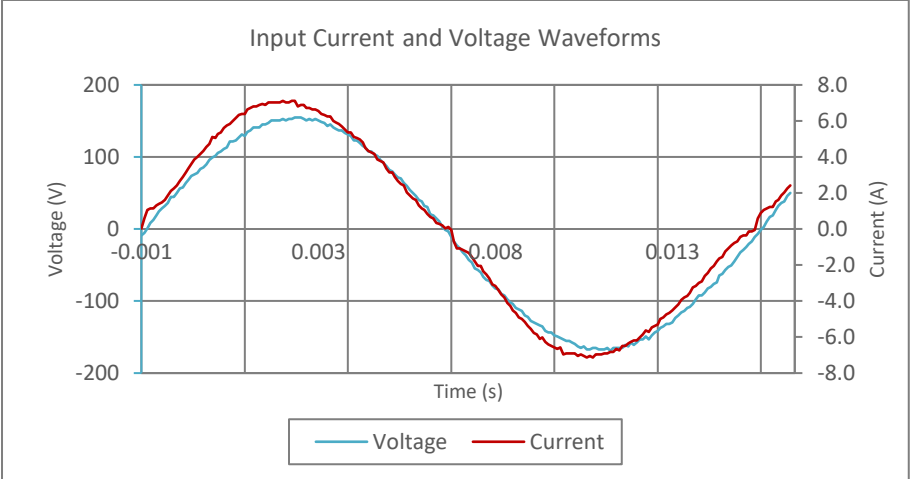
|                                |        |
|--------------------------------|--------|
| TYPICAL EFFICIENCY (50% Load): | 92.23% |
| AVERAGE EFFICIENCY :           | 91.05% |
| 80 PLUS COMPLIANT:             | YES    |



|               |                     |
|---------------|---------------------|
| ID Number     | 5644                |
| Manufacturer  | FSP Technology Inc. |
| Model Number  | HPT2-1000M          |
| Serial Number | S9081030001         |
| Year          | 2019                |
| Type          | ATX12V, EPS12V      |
| Test Date     | 9/5/19              |

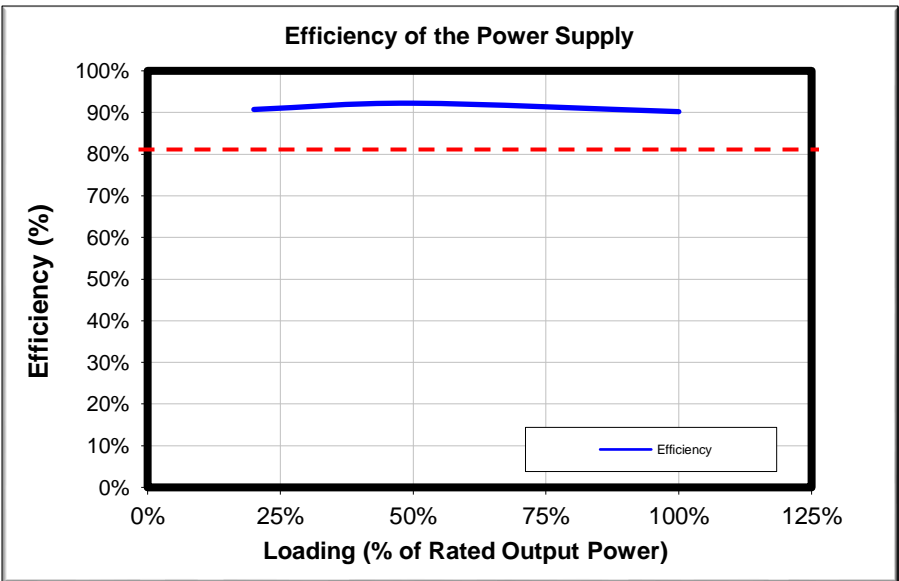
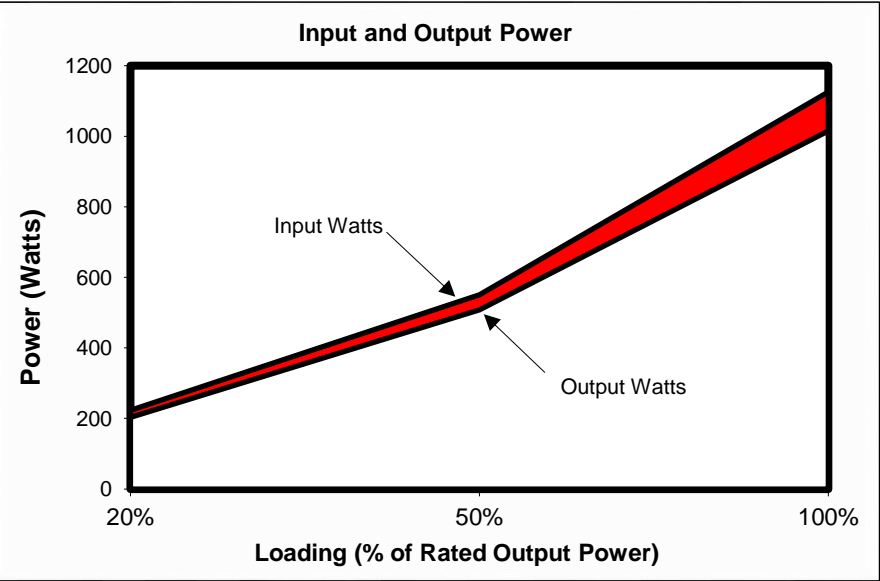
| Rated Specifications | Value   | Units |
|----------------------|---------|-------|
| Input Voltage        | 100-240 | Volts |
| Input Current        | 13-6    | Amps  |
| Input Frequency      | 50-60   | Hz    |
| Rated Output Power   | 1000    | Watts |

Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 5.32%, 50% Load)

| I <sub>RMS</sub> | 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.)         | -12V       | 3.3V      | 5V         | 5Vsb      |                 |            |
| 1.04             | 0.97 | 12.92%           | 10%  | 116.76         | 12.1/7.32                                    | 12.18/0.03 | 3.42/1.27 | 5.19/1.27  | 5.05/0.26 | 101.17          | 86.65%     |
| 1.96             | 0.99 | 5.12%            | 20%  | 223.79         | 12.09/14.7                                   | 12.18/0.05 | 3.45/2.54 | 5.22/2.53  | 5.05/0.53 | 203.04          | 90.73%     |
| 4.81             | 1.00 | 5.32%            | 50%  | 550.70         | 12.07/36.75                                  | 12.19/0.13 | 3.55/6.36 | 5.29/6.3   | 5.02/1.32 | 507.89          | 92.23%     |
| 9.84             | 0.99 | 7.20%            | 100% | 1125.40        | 12.04/73.42                                  | 12.22/0.26 | 3.7/12.71 | 5.41/12.57 | 4.96/2.63 | 1015.07         | 90.20%     |



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. <http://www.80plus.org/>

