

## 80 PLUS Verification and Testing Report

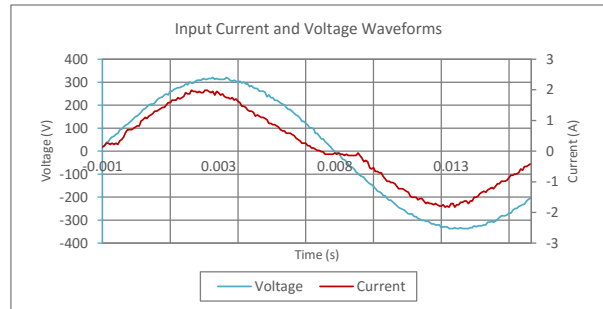
|                                       |               |
|---------------------------------------|---------------|
| <b>TYPICAL EFFICIENCY (50% Load):</b> | <b>87.10%</b> |
| <b>AVERAGE EFFICIENCY :</b>           | <b>85.42%</b> |
| <b>80 PLUS COMPLIANT:</b>             | <b>YES</b>    |



|                      |                                            |
|----------------------|--------------------------------------------|
| <b>ID Number</b>     | EU-373                                     |
| <b>Manufacturer</b>  | SilentiumPC                                |
| <b>Model Number</b>  | SilentiumPC Elementum E2 SI 450W 80plus EU |
| <b>Serial Number</b> | N/A                                        |
| <b>Year</b>          | 2017                                       |
| <b>Type</b>          | ATX12V, EPS12V                             |
| <b>Test Date</b>     | 1/3/18                                     |

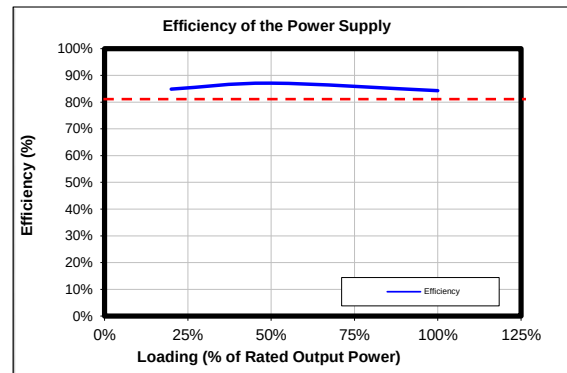
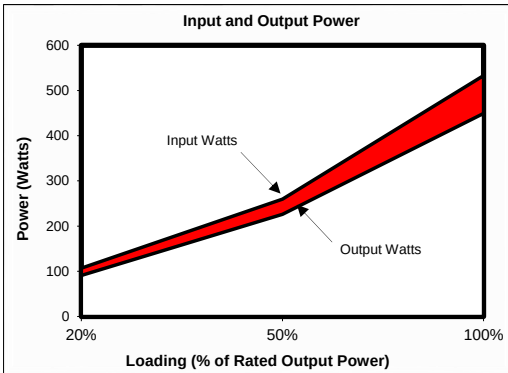
| Rated Specifications      | Value      | Units        |
|---------------------------|------------|--------------|
| Input Voltage             | 200-240    | Volts        |
| Input Current             | 5          | Amps         |
| Input Frequency           | 50         | Hz           |
| <b>Rated Output Power</b> | <b>450</b> | <b>Watts</b> |

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



Input AC Current Waveform (I<sub>THD</sub> = 18.95%, 50% Load)

| I <sub>RMS</sub> | PF   | I <sub>THD</sub> | Load | Input Watts | DC Terminal Voltage (V)/ DC Load Current (A) |            |            |           |           | Output Watts | Efficiency |
|------------------|------|------------------|------|-------------|----------------------------------------------|------------|------------|-----------|-----------|--------------|------------|
|                  |      |                  |      |             | 12V (cumulative of 12V1, 12V2, etc.)         | -12V       | 3.3V       | 5V        | 5Vsb      |              |            |
| 0.28             | 0.89 | 33.57%           | 10%  | 57.32       | 12.01/2.9                                    | 11.9/0.04  | 3.41/1.03  | 5.17/1.03 | 5.08/0.21 | 45.24        | 78.92%     |
| 0.49             | 0.94 | 26.37%           | 20%  | 107.02      | 12.01/5.84                                   | 11.93/0.08 | 3.4/2.06   | 5.16/2.05 | 5.07/0.42 | 90.83        | 84.87%     |
| 1.16             | 0.97 | 18.95%           | 50%  | 259.70      | 11.98/14.58                                  | 11.96/0.21 | 3.38/5.15  | 5.14/5.12 | 5.04/1.04 | 226.19       | 87.10%     |
| 2.35             | 0.99 | 12.52%           | 100% | 533.00      | 11.93/29.11                                  | 12.08/0.42 | 3.35/10.29 | 5.1/10.23 | 4.99/2.08 | 449.25       | 84.29%     |



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/>

