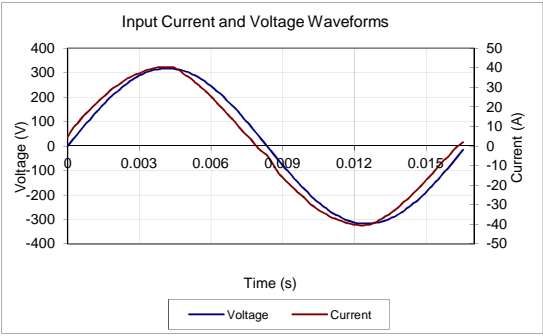


80 PLUS Verification and Testing Report

| | |
|---------------------------------------|---------------|
| TYPICAL EFFICIENCY (50% Load): | 96.37% |
| AVERAGE EFFICIENCY : | 95.40% |
| 80 PLUS COMPLIANT: | YES |



| | |
|----------------------|----------------------------|
| Ecos ID # | SO-857.1 |
| Manufacturer | Super Micro Computer, Inc. |
| Model Number | PWS-1K23A-1R |
| Serial Number | N/A |
| Year | 2014 |
| Type | 1U |
| Test Date | 12/04/14 |

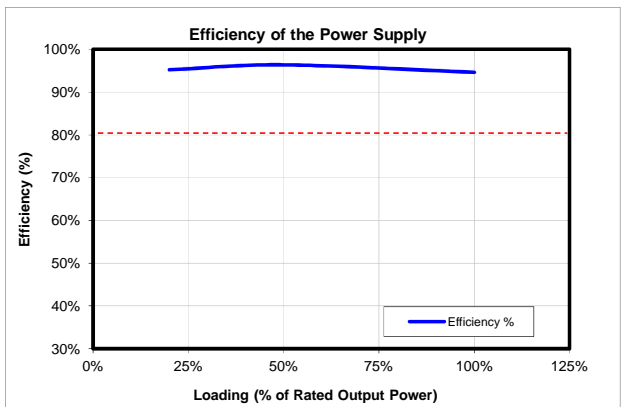
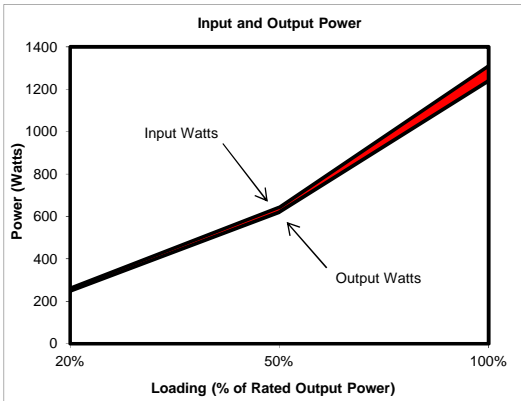


| Rated Specifications | Value | Units |
|---------------------------|-------------------|--------------|
| Input Voltage | 100-127 / 200-240 | Volts |
| Input Current | 15-12 / 8.5-7 | Amps |
| Input Frequency | 50-60 | Hz |
| Rated Output Power | 1,200 | Watts |

Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.

| I _{RMS} A | PF | I _{THD} (%) | Load (%) | Fraction of Load | Input Watts | External Fan (W)* | DC Terminal Voltage (V)/ DC Load Current (A) | | Output Watts | Efficiency % |
|-----------------------|------|----------------------|----------|------------------|-------------|-------------------|--|-----------|--------------|--------------|
| | | | | | | | 12V | 5Vsb | | |
| 0.67 | 0.86 | 10.71 | 10% | Low | 133 | 2.86 | 12.17/9.83 | 5.13/0.39 | 122 | 91.79% |
| 1.20 | 0.95 | 8.15 | 20% | Light | 261 | 3.09 | 12.42/19.72 | 5.13/0.79 | 249 | 95.21% |
| 2.85 | 0.98 | 2.76 | 50% | Typical | 644 | 3.09 | 12.38/49.28 | 5.12/1.96 | 620 | 96.37% |
| 5.74 | 0.99 | 1.40 | 100% | Full | 1311 | 3.21 | 12.38/98.59 | 5.1/3.92 | 1240 | 94.62% |

* Fan power is not included in the efficiency calculations



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/>

