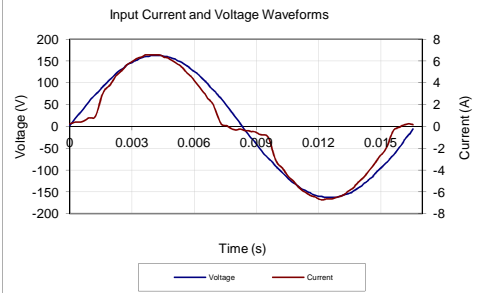


80 PLUS Verification and Testing Report

| | |
|--------------------------------|--------|
| TYPICAL EFFICIENCY (50% Load): | 87.53% |
| AVERAGE EFFICIENCY : | 85.66% |
| 80 PLUS COMPLIANT: | YES |



| | |
|---------------|--------------|
| Ecos ID # | 3311 |
| Manufacturer | Powercool |
| Model Number | PCB-850BKMOD |
| Serial Number | N/A |
| Year | 2012 |
| Type | ATX12V |
| Test Date | 10/16/12 |

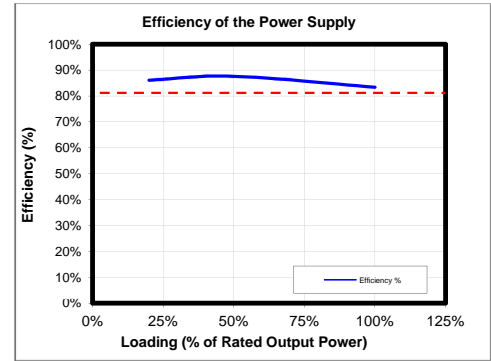
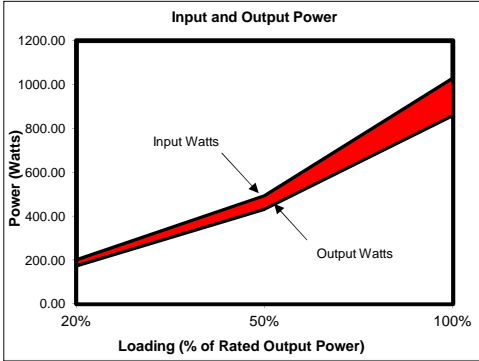


| Rated Specifications | Value | Units |
|---------------------------|------------|--------------|
| Input Voltage | 110/220 | Volts |
| Input Current | N/A | Amps |
| Input Frequency | 60/50 | Hz |
| Rated Output Power | 850 | Watts |

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

Input AC Current Waveform (ITHD = 19.35%, 50% Load)

| I _{RMS} A | PF | I _{THD} (%) | Load (%) | Input Watts | DC Terminal Voltage (V)/ DC Load Current (A) | | | | | Output Watts | Efficiency % |
|-----------------------|------|----------------------|-------------|----------------|--|--|--|--|--|-----------------|-----------------|
| | | | | | 12V (cumulative of 12V1, 12V2, etc.) | | | | | | |
| 0.94 | 0.98 | 13.58% | 10% | 106.71 | 12.2/6 | | | | | | |
| 1.82 | 0.97 | 25.17% | 20% | 202.00 | 12.2/12 | | | | | 86.73 | 81.28% |
| 4.39 | 0.98 | 19.35% | 50% | 494.40 | 12.2/29.9 | | | | | 432.73 | 87.53% |
| 9.05 | 0.99 | 13.54% | 100% | 1030.00 | 12.1/59.6 | | | | | 858.98 | 83.40% |



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/>

