

# 80 PLUS Verification and Testing Report

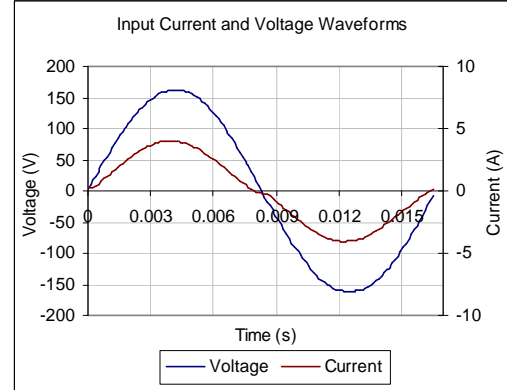
|                                       |               |
|---------------------------------------|---------------|
| <b>TYPICAL EFFICIENCY (50% Load):</b> | <b>82.86%</b> |
| <b>AVERAGE EFFICIENCY :</b>           | <b>81.17%</b> |
| <b>80 PLUS COMPLIANT:</b>             | <b>YES</b>    |



|                      |             |
|----------------------|-------------|
| <b>Ecos ID #</b>     | 143         |
| <b>Manufacturer</b>  | FSP Group   |
| <b>Model Number</b>  | FSP250-60EP |
| <b>Serial Number</b> | S6381000052 |
| <b>Year</b>          | 2006        |
| <b>Type</b>          | ATX12V      |
| <b>Test Date</b>     | 12/28/2006  |

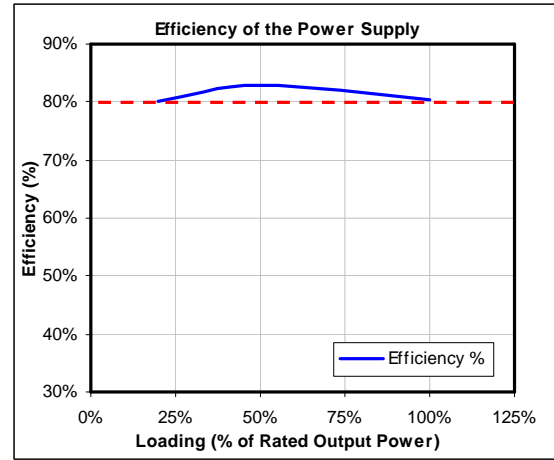
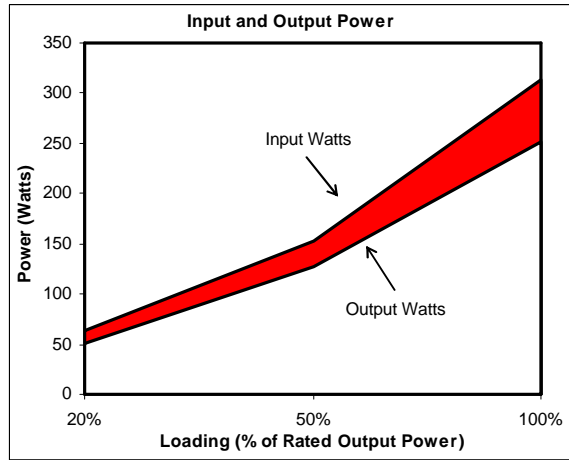
| Rated Specifications      | Value      | Units        |
|---------------------------|------------|--------------|
| Input Voltage             | 100-240    | Volts        |
| Input Current             | 4-2        | Amps         |
| Input Frequency           | 50/60      | Hz           |
| <b>Rated Output Power</b> | <b>250</b> | <b>Watts</b> |

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



Input AC Current Waveform (ITHD = 14.82%, 50% Load)

| I <sub>RMS</sub><br>A | PF   | I <sub>THD</sub> (%) | Load (%) | Fraction of Load | Input Watts | DC Terminal Voltage (V)/ DC Load Current (A) |          |          |          |         |         | Output Watts | Efficiency % |
|-----------------------|------|----------------------|----------|------------------|-------------|--|----------|----------|----------|---------|---------|--------------|--------------|
|                       |      |                      |          |                  |             | 12V1   | 12V2     | -12V     | 3.3V     | 5V*     | 5VSB    |              |              |
| 0.57                  | 1.00 | 24.1%                | 20%      | Light            | 64          | 12.3/1                                       | 12.4/1.6 | 11.4/0.1 | 3.3/2.1  | 5.1/1.8 | 5/0.4   | 51           | 80.20%       |
| 1.35                  | 0.99 | 14.8%                | 50%      | Typical          | 153         | 12.3/2.5                                     | 12.3/4   | 11.4/0.1 | 3.3/5.3  | 5.1/4.6 | 5/1     | 127          | 82.86%       |
| 2.74                  | 0.99 | 8.7%                 | 100%     | Full             | 313         | 12.2/5                                       | 12.3/8.1 | 11.6/0.2 | 3.3/10.7 | 5/9.2   | 4.9/1.9 | 252          | 80.46%       |



These tests were conducted as a part of the 80 PLUS program. 80 PLUS is a computer buy-down program to promote high-efficiency power supplies (greater than 80% efficiency in the active mode) in desktop computers and desktop-derived servers.



Tested by EPRI Solutions Inc., Knoxville, TN.