

80 Plus Verification and Testing Report

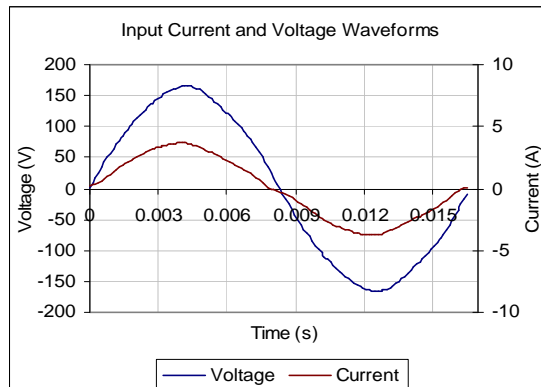


| | |
|---------------------------------------|---------------|
| TYPICAL EFFICIENCY (50% Load): | 84.45% |
| AVERAGE EFFICIENCY : | 82.77% |
| 80 PLUS COMPLIANT: | YES |

| | |
|----------------------|---------------------------|
| Ecos ID # | 24 |
| Manufacturer | ON Semiconductor |
| Model Number | 250W ATX reference design |
| Serial Number | 5.00 |
| Year | 2005 |
| Type | ATX12V |
| Test Date | 7/5/2005 |

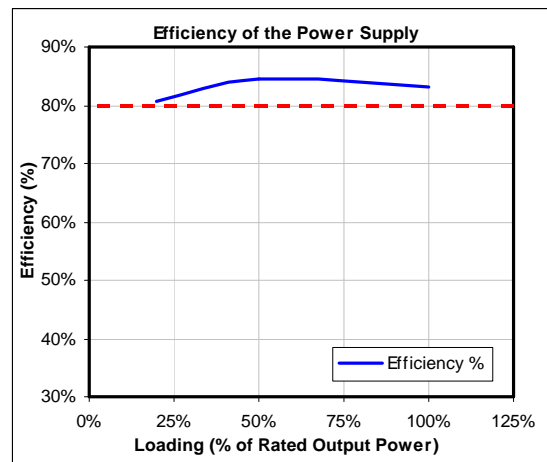
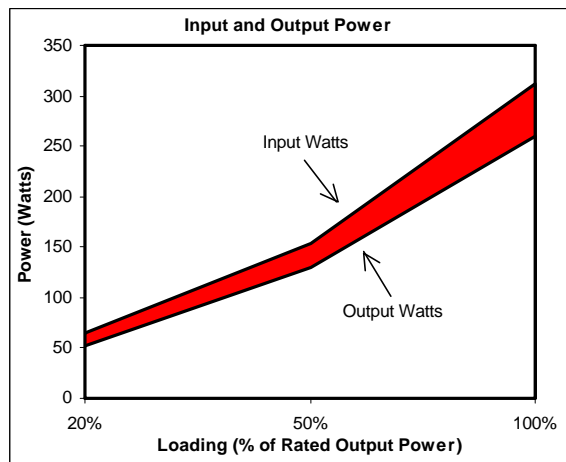
| Rated Specifications | Value | Units |
|---------------------------|------------|--------------|
| Input Voltage | 90 - 264 | Volts |
| Input Current | N/A | Amps |
| Input Frequency | 47 - 63 | Hz |
| Rated Output Power | 250 | Watts |

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



Input AC Current Waveform ($I_{THD} = 6.7\%$, 100% load)

| I_{RMS} A | PF | I_{THD} (%) | Load (%) | Fraction of Load | Input Watts | DC Terminal Voltage (V)/ DC Load Current (A) | | | | | Output Watts | Efficiency % |
|----------------|------|---------------|----------|------------------|-------------|--|-----------|---------|---------|---------|--------------|--------------|
| | | | | | | 12V1 | -12V | 3.3V | 5V* | 5VSB | | |
| 0.57 | 0.98 | 12.0% | 20% | Light | 64 | 12.7/2.7 | 12.3/0.04 | 3.2/1.8 | 5.0/1.9 | 5.0/0.3 | 52 | 80.6% |
| 1.34 | 0.99 | 8.2% | 50% | Typical | 153 | 12.7/6.8 | 12.6/0.1 | 3.2/4.5 | 5.0/4.8 | 5.0/0.7 | 129 | 84.5% |
| 2.73 | 1.00 | 6.7% | 100% | Full | 312 | 12.9/13.6 | 13.2/0.2 | 3.1/9.1 | 4.9/9.6 | 5.0/1.4 | 259 | 83.3% |



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 small servers.



Tested by EPRI PEAC Corporation, Knoxville, TN.