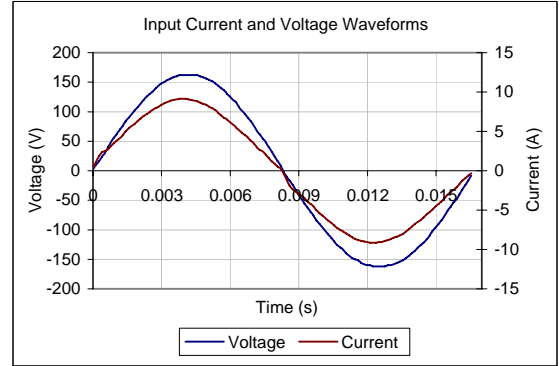


80 PLUS Verification and Testing Report



| | |
|---------------------------------------|---------------|
| TYPICAL EFFICIENCY (50% Load): | 84.76% |
| AVERAGE EFFICIENCY : | 82.99% |
| 80 PLUS COMPLIANT: | YES |

| | |
|----------------------|-------------|
| Ecos ID # | 816 |
| Manufacturer | HIGH POWER |
| Model Number | HP-650-G14C |
| Serial Number | NA |
| Year | 2008 |
| Type | ATX12V |
| Test Date | 7/9/2008 |

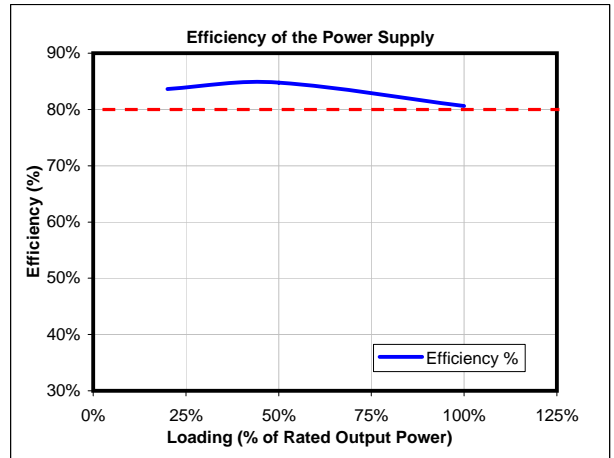
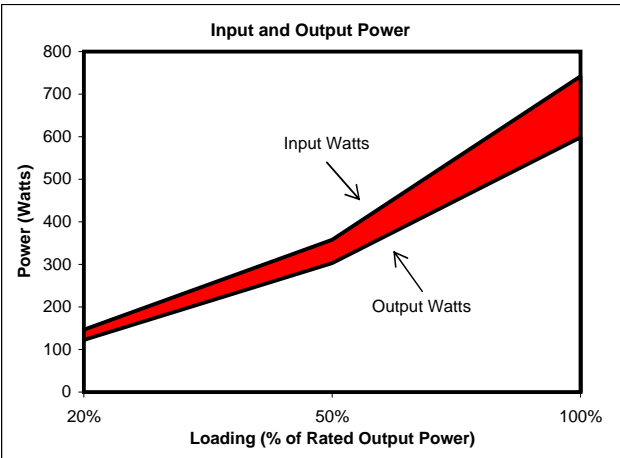


Input AC Current Waveform (ITHD = 3.8%, 50% Load)

| Rated Specifications | Value | Units |
|---------------------------|------------|--------------|
| Input Voltage | 100-240 | Volts |
| Input Current | 10 | Amps |
| Input Frequency | 50-60 | Hz |
| Rated Output Power | 600 | Watts |

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

| I _{RMS} A | PF | I _{THD} (%) | Load (%) | Fraction of 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 |
| 1.31 | 0.97 | 9.5% | 20% | Light | 147 | 12.3/7.7 | 12.1/0 | 3.4/3 | 5/3 | 5.1/0.4 | 123 | 83.62% |
| 3.13 | 0.99 | 3.8% | 50% | Typical | 358 | 12.2/19.3 | 12.2/0.1 | 3.3/7.5 | 5/7.5 | 5/1 | 303 | 84.76% |
| 6.47 | 1.00 | 4.5% | 100% | Full | 742 | 12.1/38.5 | 12.6/0.2 | 3.1/15 | 4.8/15 | 4.8/2.1 | 598 | 80.60% |



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/>

