

# 80 PLUS Verification and Testing Report

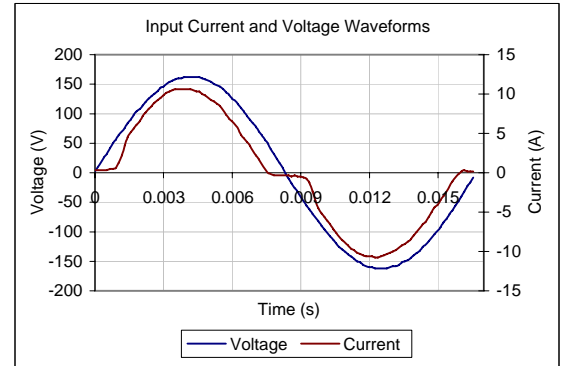


|                                       |               |
|---------------------------------------|---------------|
| <b>TYPICAL EFFICIENCY (50% Load):</b> | <b>84.43%</b> |
| <b>AVERAGE EFFICIENCY :</b>           | <b>82.65%</b> |
| <b>80 PLUS COMPLIANT:</b>             | <b>YES</b>    |

|                      |                 |
|----------------------|-----------------|
| <b>Ecos ID #</b>     | 844             |
| <b>Manufacturer</b>  | BE QUIET!       |
| <b>Model Number</b>  | BQT E6-650W     |
| <b>Serial Number</b> | S8261003234     |
| <b>Year</b>          | 2008            |
| <b>Type</b>          | ATX12V & EPS12V |
| <b>Test Date</b>     | 7/29/2008       |

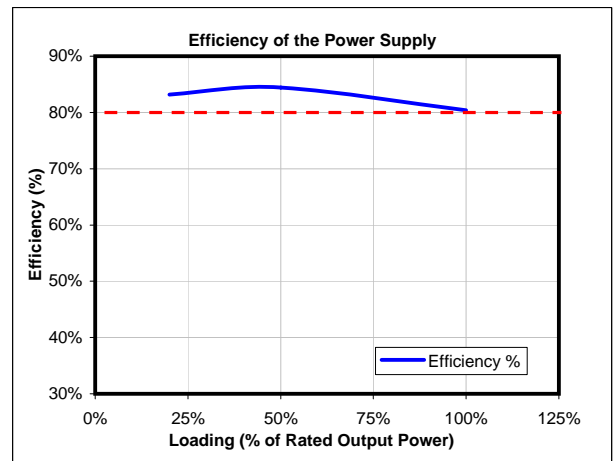
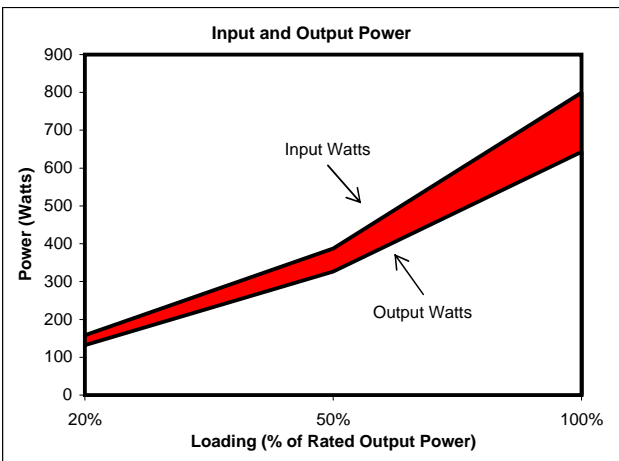
| Rated Specifications      | Value      | Units        |
|---------------------------|------------|--------------|
| Input Voltage             | 110-240    | Volts        |
| Input Current             | 10         | Amps         |
| Input Frequency           | 50-60      | Hz           |
| <b>Rated Output Power</b> | <b>650</b> | <b>Watts</b> |

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



Input AC Current Waveform (ITHD = 24.92%, 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 % |        |
|-----------------------|------|----------------------|----------|------------------|-------------|--|----------|----------|---------|--------------|--------------|--------|
|                       |      |                      |          |                  |             | 12V (cumulative of 12V1, 12V2, etc.)         | -12V     | 3.3V     | 5V*     |              |              | 5VSB   |
| 1.44                  | 0.95 | 29.4%                | 20%      | Light            | 158         | 12.1/8.2                                     | 12.2/0.1 | 3.3/3.7  | 5.1/3.2 | 5.1/0.5      | 132          | 83.16% |
| 3.48                  | 0.97 | 24.9%                | 50%      | Typical          | 387         | 12.1/20.6                                    | 12.3/0.2 | 3.2/9.3  | 5/8     | 5/1.2        | 327          | 84.43% |
| 7.07                  | 0.98 | 17.6%                | 100%     | Full             | 800         | 11.9/41                                      | 12.3/0.4 | 3.2/18.5 | 4.9/16  | 4.8/2.4      | 643          | 80.36% |



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 Electric Power Research Institute, Knoxville, TN.