

# 80 PLUS Verification and Testing Report

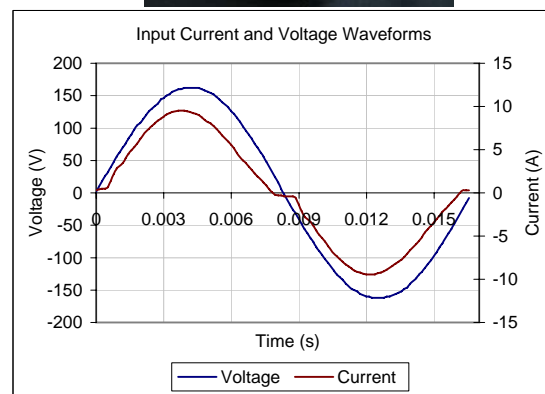
**TYPICAL EFFICIENCY (50% Load):** 86.69%  
**AVERAGE EFFICIENCY :** 84.90%  
**80 PLUS COMPLIANT:** YES



|                      |                 |
|----------------------|-----------------|
| <b>Ecos ID #</b>     | 1139            |
| <b>Manufacturer</b>  | THERMALTAKE     |
| <b>Model Number</b>  | TP XT-600AH3NCB |
| <b>Serial Number</b> | N/A             |
| <b>Year</b>          | 2008            |
| <b>Type</b>          | ATX12V/EPs12V   |
| <b>Test Date</b>     | 11/18/2008      |

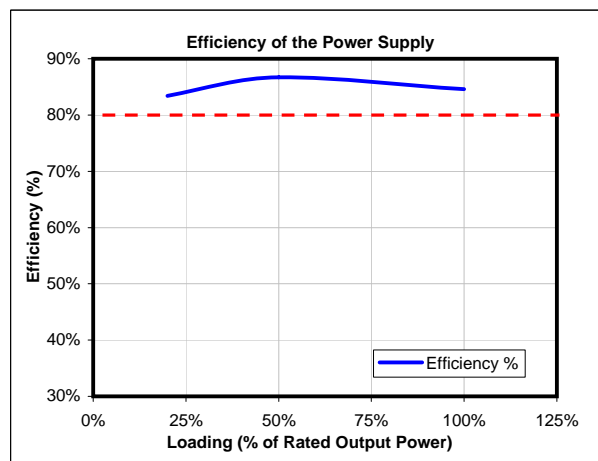
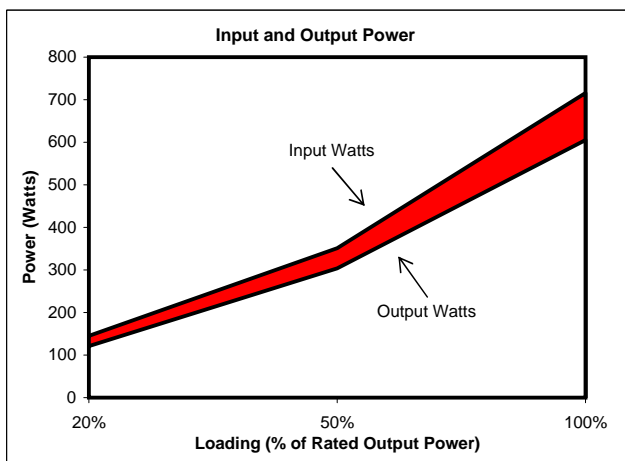
| Rated Specifications      | Value      | Units        |
|---------------------------|------------|--------------|
| Input Voltage             | 100-240    | Volts        |
| Input Current             | 8/4        | Amps         |
| Input Frequency           | 47-63      | Hz           |
| <b>Rated Output Power</b> | <b>600</b> | <b>Watts</b> |

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



Input AC Current Waveform (ITHD = 18.51%, 50% Load)

| I <sub>RMS</sub><br>A | PF   | I <sub>THD</sub> (%) | Load<br>(%) | Fraction<br>of Load | Input<br>Watts | DC Terminal Voltage (V)/ DC Load Current (A) |        |          |          |         | Output<br>Watts | Efficiency<br>% |
|-----------------------|------|----------------------|-------------|---------------------|----------------|--|--------|----------|----------|---------|-----------------|-----------------|
|                       |      |                      |             |                     |                | 12V (cumulative of 12V1, 12V2, etc.)         | -12V   | 3.3V     | 5V*      | 5VSB    |                 |                 |
| 1.32                  | 0.96 | 26.4%                | 20%         | Light               | 145            | 12.1/7.4                                     | 12/0.1 | 3.4/3.5  | 5.1/3.2  | 5.2/0.5 | 121             | 83.41%          |
| 3.13                  | 0.97 | 18.5%                | 50%         | Typical             | 351            | 12.1/18.5                                    | 12/0.3 | 3.4/8.7  | 5.1/8    | 5.2/1.2 | 304             | 86.69%          |
| 6.30                  | 0.99 | 13.0%                | 100%        | Full                | 716            | 12.1/37                                      | 12/0.6 | 3.3/17.2 | 5.1/16.1 | 5.1/2.3 | 605             | 84.60%          |



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/>

