

## 80 PLUS Verification and Testing Report

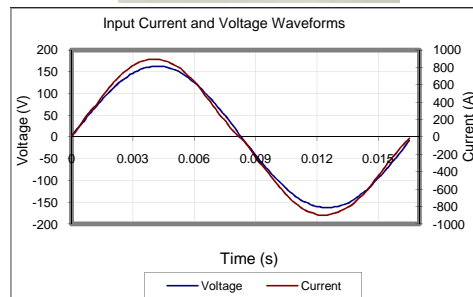
|                                |        |
|--------------------------------|--------|
| TYPICAL EFFICIENCY (50% Load): | 85.43% |
| AVERAGE EFFICIENCY :           | 83.78% |
| 80 PLUS COMPLIANT:             | YES    |



|               |   |
|---------------|---|
| Ecos ID #     | 2247  |
| Manufacturer  | GUANGZHOU KAISEN ELETRONIC TECHNOLOGY CO., LTD. |
| Model Number  | A8-60A14-1                                      |
| Serial Number | N/A   |
| Year          | 2010  |
| Type          | ATX12V  |
| Test Date     | 10/6/2010                                       |

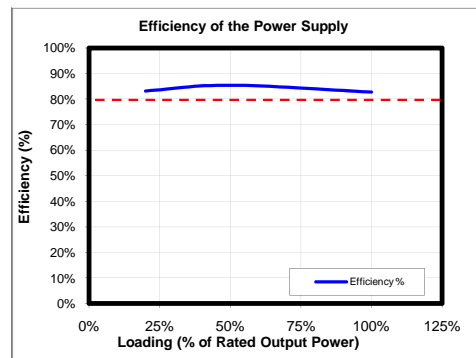
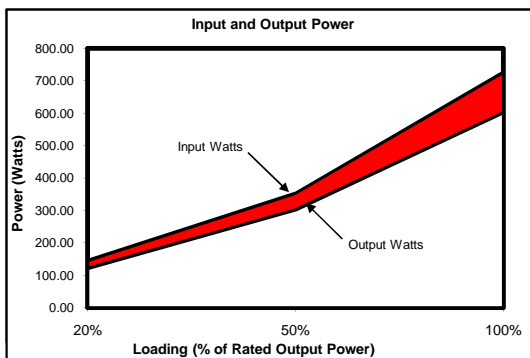
| Rated Specifications | Value | Units |
|----------------------|-------|-------|
| Input Voltage        | 220   | Volts |
| Input Current        | 4     | Amps  |
| Input Frequency      | 50    | Hz    |
| Rated Output Power   | 600   | Watts |

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



Input AC Current Waveform (THD = 4.98%, 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   |
| 1.29                  | 0.99 | 7.79%                | 20%         | Light               | 146.17         | 12.1/8.3                                     |  |  |  |  | 12/0            | 3.3/2.2         | 5/2.2  | 5.2/0.3 | 121.57 | 83.17% |
| 3.08                  | 1.00 | 4.98%                | 50%         | Typical             | 353.70         | 12.1/20.8                                    |  |  |  |  | 12/0.1          | 3.3/5.5         | 5/5.5  | 5.2/0.8 | 302.16 | 85.43% |
| 6.34                  | 1.00 | 4.17%                | 100%        | Full                | 727.30         | 12/41.7                                      |  |  |  |  | 12.5/0.2        | 3.2/10.9        | 5/10.9 | 5.1/1.6 | 601.69 | 82.73% |



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/>

