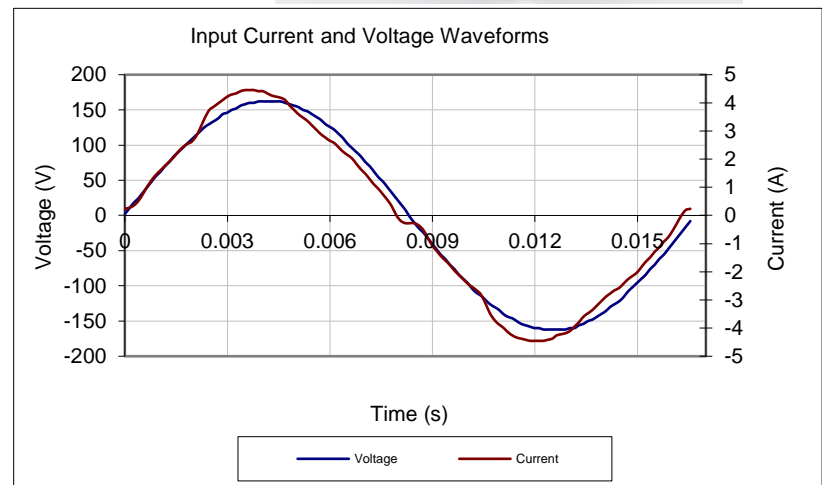


# 80 PLUS Verification and Testing Report

|                                       |               |
|---------------------------------------|---------------|
| <b>TYPICAL EFFICIENCY (50% Load):</b> | <b>86.91%</b> |
| <b>AVERAGE EFFICIENCY :</b>           | <b>85.03%</b> |
| <b>80 PLUS COMPLIANT:</b>             | <b>YES</b>    |



|                      |          |
|----------------------|----------|
| <b>ID #</b>          | 3535.9   |
| <b>Manufacturer</b>  | Chieftec |
| <b>Model Number</b>  | VPS-600S |
| <b>Serial Number</b> | N/A      |
| <b>Year</b>          | 2013     |
| <b>Type</b>          | ATX12V   |
| <b>Test Date</b>     | 4/10/13  |

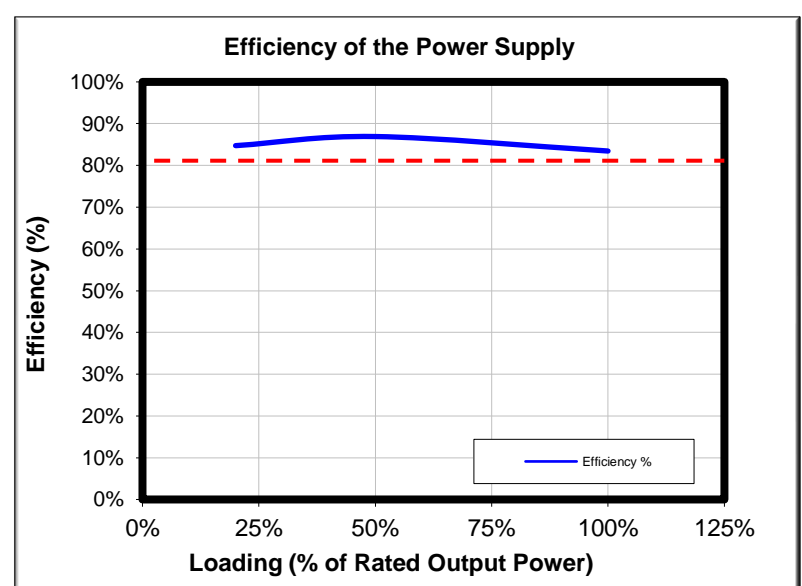
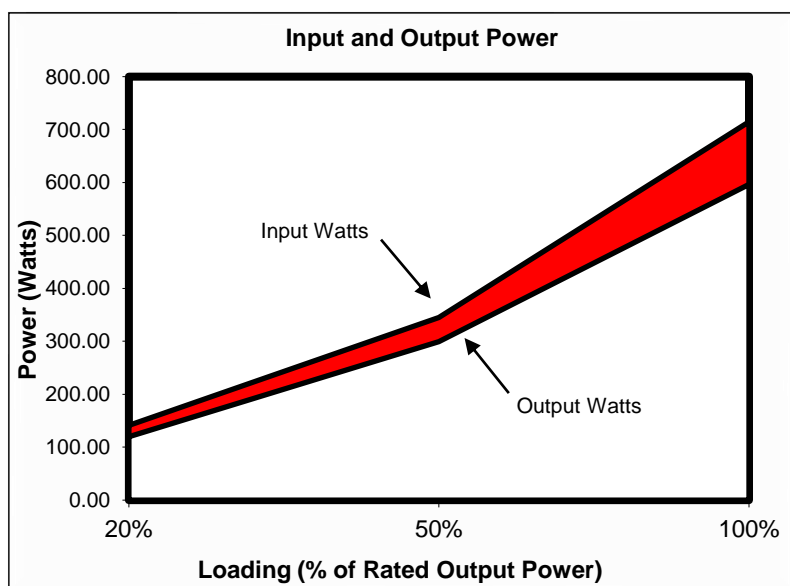


Input AC Current Waveform (ITHD = 9.38%, 50% Load)

| Rated Specifications      | Value      | Units        |
|---------------------------|------------|--------------|
| Input Voltage             | 100-240    | Volts        |
| Input Current             | 9          | 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 at 60 Hz.

| I <sub>RMS</sub><br>A | PF   | I <sub>THD</sub> (%) | 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   |
| 0.69                  | 0.97 | 21.03%               | 10%      | 76.58          | 11.9/4                                       | 11.6/0   | 3.4/1.4  | 5.1/1.2 | 5.1/0.2         | 60.18           | 78.59% |
| 1.25                  | 0.98 | 14.70%               | 20%      | 141.46         | 11.9/8                                       | 11.6/0.1 | 3.4/2.8  | 5.1/2.3 | 5.1/0.4         | 119.87          | 84.74% |
| 3.02                  | 0.99 | 9.38%                | 50%      | 344.90         | 11.9/20.2                                    | 11.6/0.1 | 3.4/6.9  | 5.1/5.8 | 5/1.1           | 299.77          | 86.91% |
| 6.24                  | 1.00 | 5.54%                | 100%     | 714.70         | 11.9/40.2                                    | 11.7/0.3 | 3.3/13.8 | 5/11.7  | 5/2.2           | 596.41          | 83.45% |



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/>