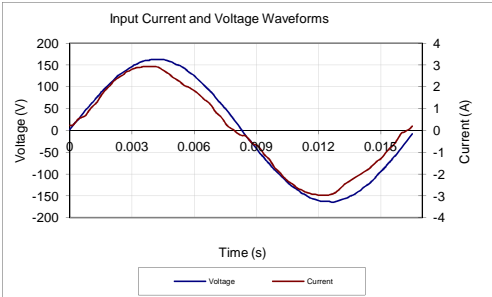


80 PLUS Verification and Testing Report

| | |
|--------------------------------|--------|
| TYPICAL EFFICIENCY (50% Load): | 87.27% |
| AVERAGE EFFICIENCY : | 85.69% |
| 80 PLUS COMPLIANT: | YES |



| | |
|---------------|----------|
| Ecos ID # | 3531 |
| Manufacturer | CHIEFTEC |
| Model Number | TPS-400S |
| Serial Number | N/A |
| Year | 2013 |
| Type | ATX12V |
| Test Date | 4/9/13 |

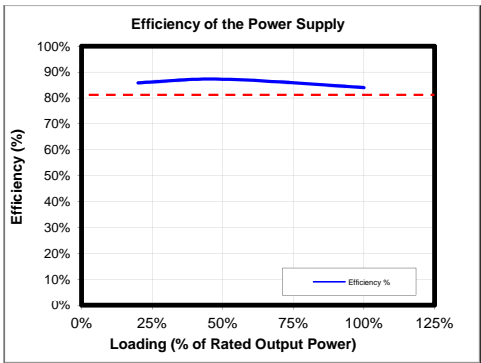
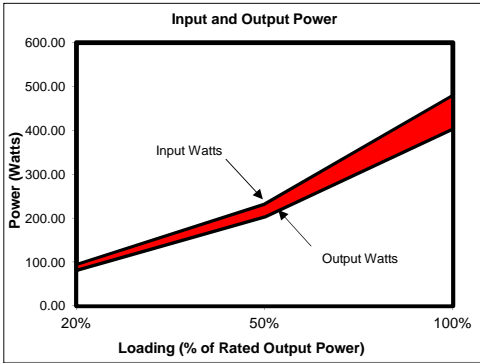


| Rated Specifications | Value | Units |
|----------------------|---------|-------|
| Input Voltage | 100-240 | Volts |
| Input Current | 6 | Amps |
| Input Frequency | 47-63 | Hz |
| Rated Output Power | 400 | Watts |

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

Input AC Current Waveform (ITHD = 8.45%, 50% Load)

| I _{RMS} A | PF | I _{THD} (%) | 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 |
| 0.46 | 0.94 | 21.89% | 10% | 49.76 | 12.1/2.5 | | 11.9/0 | 3.4/1 | 5/1 | 5.1/0.2 | 40.68 | 81.75% |
| 0.84 | 0.98 | 13.32% | 20% | 94.55 | 12.1/5.1 | | 11.9/0.1 | 3.4/2.1 | 5/2 | 5.1/0.4 | 81.17 | 85.85% |
| 2.04 | 0.99 | 8.45% | 50% | 232.28 | 12.1/12.7 | | 12/0.1 | 3.4/5.3 | 5/4.9 | 5/1.1 | 202.71 | 87.27% |
| 4.21 | 0.99 | 7.48% | 100% | 480.40 | 12.1/25.3 | | 12.1/0.3 | 3.3/10.5 | 5/9.8 | 5/2.1 | 403.35 | 83.96% |



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/>

