# 80 PLUS Verification and Testing Report

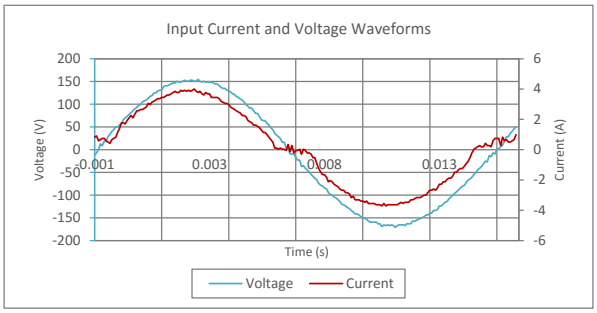
| | |
|---|---|
| **TYPICAL EFFICIENCY (50% Load):** | **87.36%** |
| **AVERAGE EFFICIENCY :** | **85.42%** |
| **80 PLUS COMPLIANT:** | **YES** |



| | |
|---|---|
| **ID Number** | 5001.1 |
| **Manufacturer** | CHIEFTEC |
| **Model Number** | BDF-500S |
| **Serial Number** | NA |
| **Year** | 2017 |
| **Type** | ATX12V |
| **Test Date** | 7/25/17 |

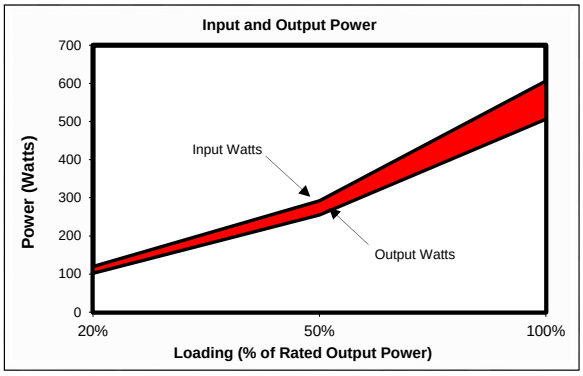
| Rated Specifications | Value | Units |
|---|---|---|
| Input Voltage | 115-230 | Volts |
| Input Current | 10 | Amps |
| Input Frequency | 50-60 | Hz |
| **Rated Output Power** | **500** | **Watts** |

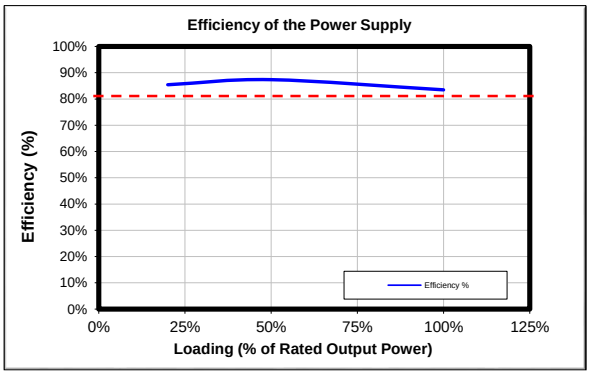
Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.




Input AC Current Waveform (ITHD = 11.436%, 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 | | |
| 0.57 | 0.97 | 19.63% | 10% | 63.24 | 12.23/3.45 | 12.1/0.02 | 3.34/0.89 | 5.18/0.89 | 5.16/0.21 | 51.05 | **80.73%** |
| 1.07 | 0.97 | 22.83% | 20% | 119.55 | 12.22/6.89 | 12.1/0.05 | 3.33/1.79 | 5.17/1.78 | 5.15/0.41 | 102.12 | **85.42%** |
| 2.56 | 0.99 | 11.44% | 50% | 292.00 | 12.19/17.28 | 12.1/0.12 | 3.31/4.48 | 5.16/4.43 | 5.1/1.03 | 255.09 | **87.36%** |
| 5.30 | 0.99 | 9.25% | 100% | 606.19 | 12.16/34.38 | 12.12/0.25 | 3.28/8.97 | 5.12/8.87 | 5.02/2.06 | 506.07 | **83.48%** |




PLUG LOAD solutions

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/*

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