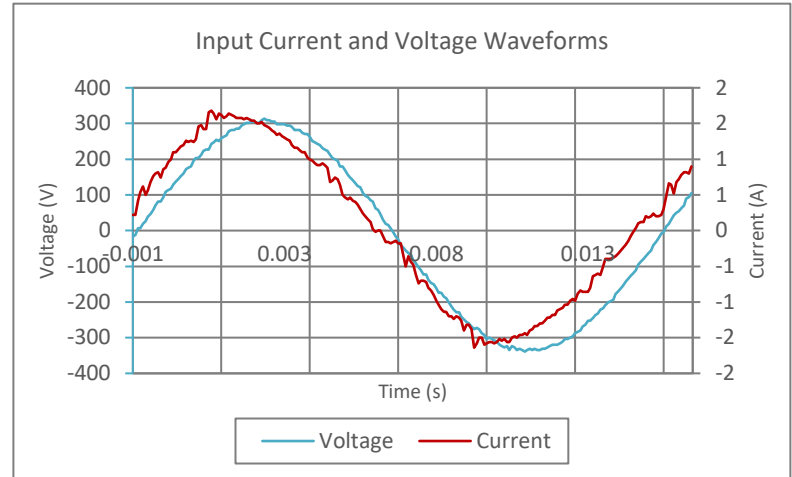


80 PLUS Verification and Testing Report

| | |
|---------------------------------------|---------------|
| TYPICAL EFFICIENCY (50% Load): | 94.71% |
| AVERAGE EFFICIENCY : | 93.66% |
| 80 PLUS COMPLIANT: | YES |



| | |
|----------------------|--|
| ID Number | SO-1940 |
| Manufacturer | CHINA GREATWALL TECHNOLOGY GROUP CO., LTD. |
| Model Number | PSR450-12A |
| Serial Number | N/A |
| Year | 2021 |
| Type | OTHER |
| Test Date | 10/07/21 |



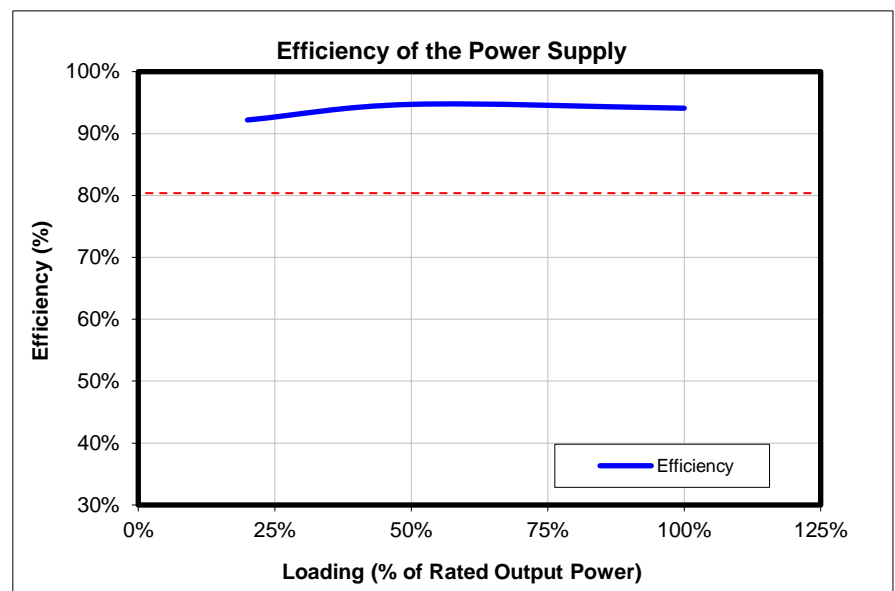
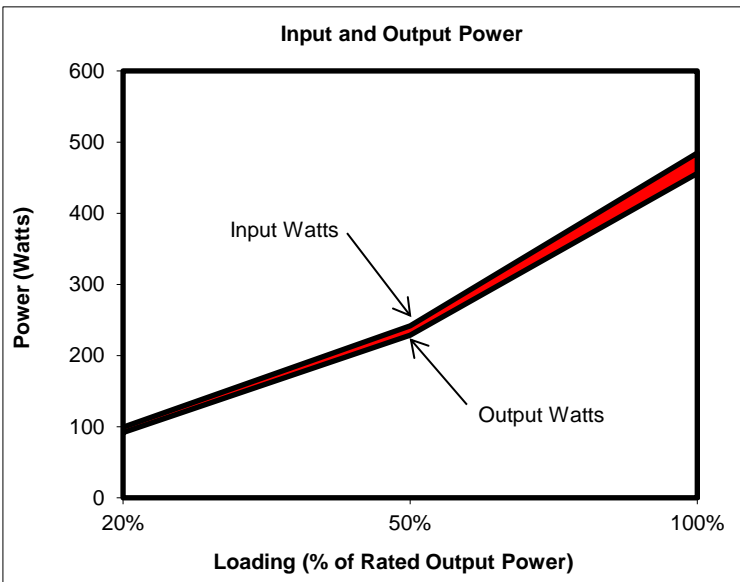
Input AC Current Waveform (ITHD = 7.49%, 50% Load)

| Rated Specifications | Value | Units |
|---------------------------|------------|--------------|
| Input Voltage | 100-240 | Volts |
| Input Current | 6-3 | Amps |
| Input Frequency | 60/50 | Hz |
| Rated Output Power | 457 | Watts |

Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.

| I _{RMS} | PF | I _{THD} | Load | Fraction of Load | Input Watts | External Fan (W)* | DC Terminal Voltage (V)/ DC Load Current (A) | | Output Watts | Efficiency |
|------------------|------|------------------|------|------------------|-------------|-------------------|--|-----------|--------------|------------|
| | | | | | | | 12V | 3.3Vsb | | |
| 0.31 | 0.75 | 22.07% | 10% | Low | 53 | 1.08 | 12.01/3.76 | 3.31/0.2 | 46 | 86.91% |
| 0.49 | 0.88 | 15.00% | 20% | Light | 99 | 1.32 | 12.01/7.52 | 3.31/0.4 | 92 | 92.19% |
| 1.09 | 0.97 | 7.49% | 50% | Typical | 241 | 2.52 | 11.99/18.8 | 3.29/1.01 | 229 | 94.71% |
| 2.22 | 0.99 | 3.54% | 100% | Full | 485 | 6.84 | 11.95/37.59 | 3.27/2.01 | 456 | 94.09% |

* Fan power is not included in the efficiency calculations



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/>