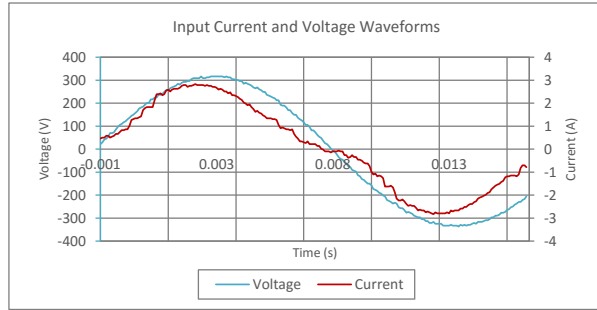


80 PLUS Verification and Testing Report

| | |
|---------------------------------------|---------------|
| TYPICAL EFFICIENCY (50% Load): | 89.04% |
| AVERAGE EFFICIENCY : | 87.68% |
| 80 PLUS COMPLIANT: | YES |



| | |
|----------------------|----------------------|
| ID Number | EU-384 |
| Manufacturer | Listan GmbH & Co. KG |
| Model Number | S9-700W |
| Serial Number | N/A |
| Year | 2017 |
| Type | ATX12V |
| Test Date | 1/25/18 |

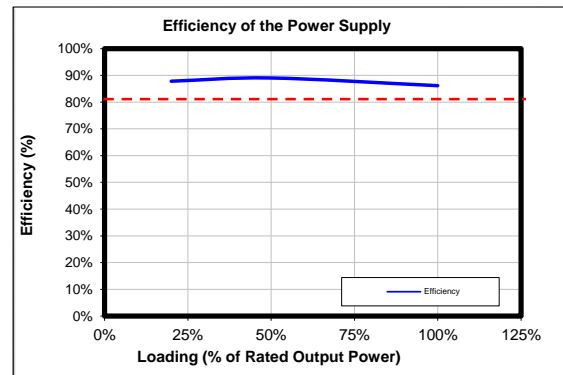
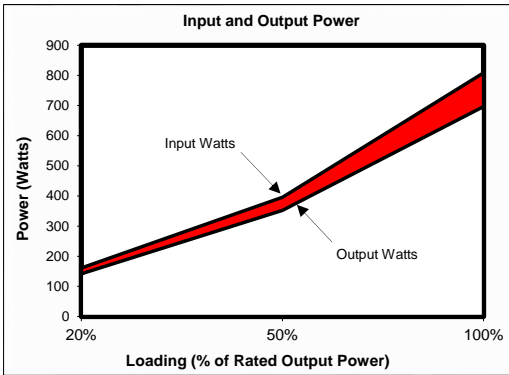


Input AC Current Waveform (ITHD = 18.08%, 50% Load)

| Rated Specifications | Value | Units |
|---------------------------|------------|--------------|
| Input Voltage | 200-240 | Volts |
| Input Current | 6 | Amps |
| Input Frequency | 50 | Hz |
| Rated Output Power | 700 | Watts |

Note: All measurements were taken with input voltage at 230 V nominal at 50 Hz.

| I _{RMS} | PF | I _{THD} | Load | Input Watts | DC Terminal Voltage (V)/ DC Load Current (A) | | | | | Output Watts | Efficiency |
|------------------|------|------------------|------|-------------|--|------------|------------|-----------|-----------|--------------|------------|
| | | | | | 12V (cumulative of 12V1, 12V2, etc.) | | | | | | |
| 0.42 | 0.88 | 31.12% | 10% | 85.30 | 12.16/4.79 | 12.05/0.03 | 3.38/1.73 | 4.99/1.08 | 5.1/0.26 | 71.10 | 83.35% |
| 0.75 | 0.94 | 24.86% | 20% | 161.35 | 12.14/9.58 | 12.06/0.05 | 3.37/3.44 | 4.97/2.15 | 5.09/0.51 | 141.72 | 87.83% |
| 1.77 | 0.97 | 18.08% | 50% | 395.70 | 12.07/23.96 | 12.08/0.13 | 3.33/8.62 | 4.93/5.35 | 5.05/1.28 | 352.33 | 89.04% |
| 3.57 | 0.98 | 14.27% | 100% | 808.60 | 11.96/47.9 | 12.17/0.26 | 3.27/17.19 | 4.85/10.7 | 4.97/2.56 | 696.68 | 86.16% |



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/>

