

80 PLUS Verification and Testing Report

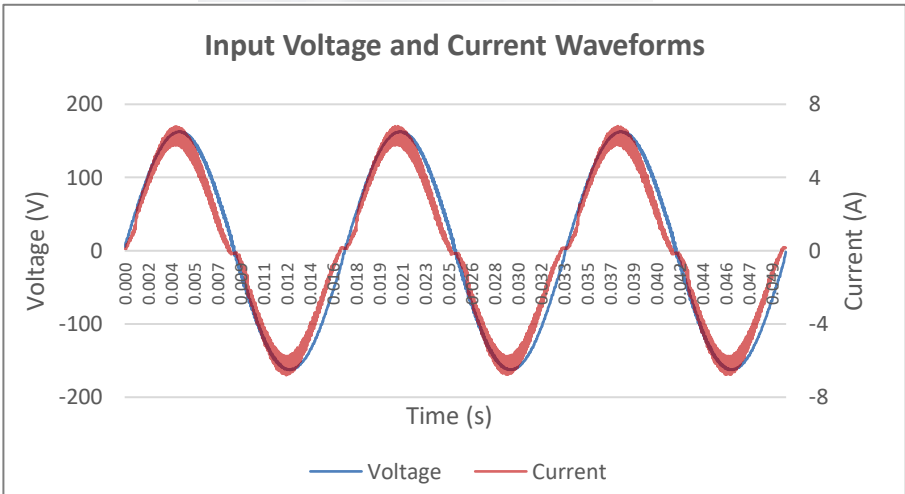
|                                |        |
|--------------------------------|--------|
| TYPICAL EFFICIENCY (50% Load): | 91.64% |
| AVERAGE EFFICIENCY :           | 90.04% |
| 80 PLUS COMPLIANT:             | Gold   |



|               |                |
|---------------|----------------|
| ID Number     | 7007           |
| Manufacturer  | SANR           |
| Model Number  | S-850MZ 850A-J |
| Serial Number | N/A            |
| Year          | 2023           |
| Type          | EPS12V         |
| Test Date     | 3/22/23        |

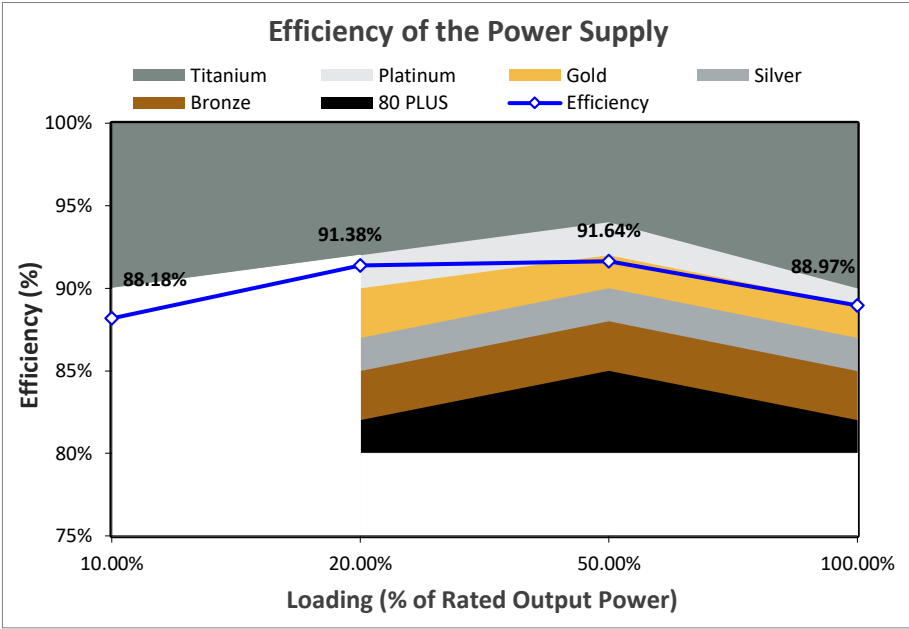
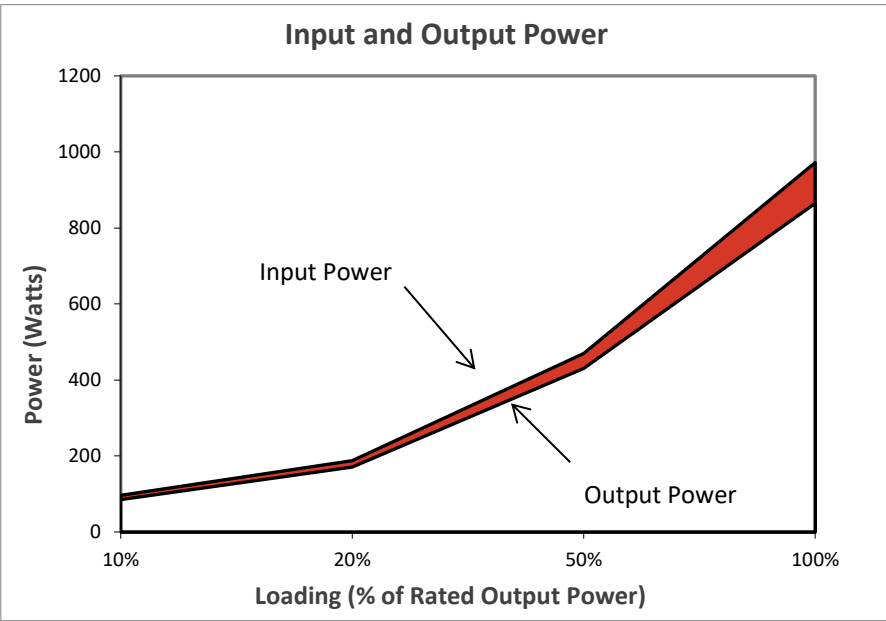
| Rated Specifications |  | Value   | Units |
|----------------------|--|---------|-------|
| Input Voltage        |  | 100-240 | Volts |
| Input Current        |  | 11-5.5  | Amps  |
| Input Frequency      |  | 47-63   | Hz    |
| Rated Output Power   |  | 850     | Watts |

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



Input AC Current Waveform (ITHD = 10.77%, 50% Load)

| I <sub>RMS</sub> (A) | PF     | I <sub>THD</sub> (%) | 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      |              |            |
| 0.874                | 0.9640 | 12.45                | 10%  | 96.87       | 12.03/6.07                                   | 12.2/0.03  | 3.36/1.3   | 5.03/1.3   | 5.05/0.22 | 85.41        | 88.18%     |
| 1.657                | 0.9814 | 11.89                | 20%  | 187.09      | 12.04/12.15                                  | 12.2/0.06  | 3.37/2.59  | 5.04/2.58  | 5.05/0.43 | 170.96       | 91.38%     |
| 4.127                | 0.9890 | 10.77                | 50%  | 469.50      | 12.09/30.5                                   | 12.18/0.13 | 3.4/6.49   | 5.07/6.42  | 5.07/1.08 | 430.24       | 91.64%     |
| 8.500                | 0.9945 | 7.66                 | 100% | 971.82      | 12.17/60.78                                  | 12.15/0.26 | 3.45/12.99 | 5.13/12.83 | 5.1/2.15  | 864.64       | 88.97%     |



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/>