

80 PLUS Verification and Testing Report

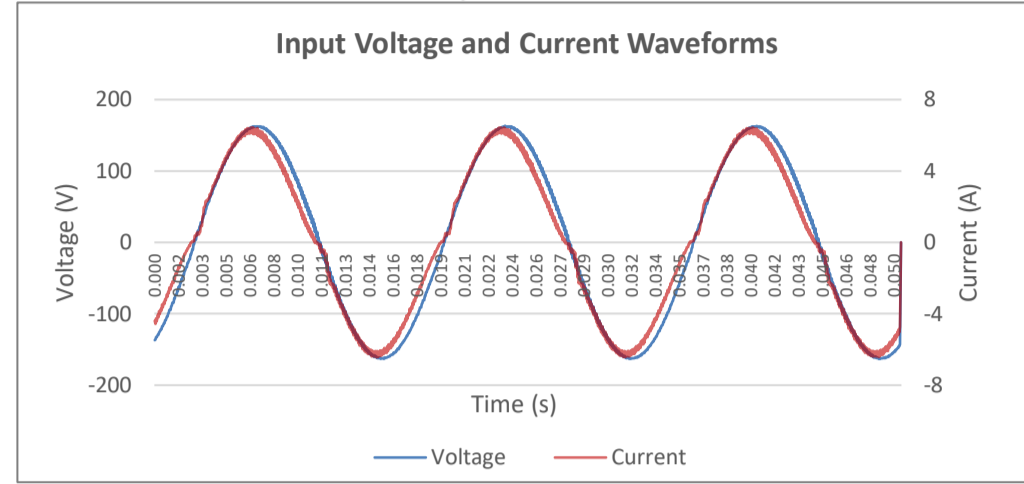
| | |
|--------------------------------|--------|
| TYPICAL EFFICIENCY (50% Load): | 88.84% |
| AVERAGE EFFICIENCY : | 81.78% |
| AVERAGE STANDBY EFFICIENCY : | 72.64% |
| 80 PLUS COMPLIANT: | Bronze |



| | |
|---------------|--------------------------------------|
| ID Number | 7731.1 |
| Manufacturer | Jingsi Shenzhen Technology Co., Ltd. |
| Model Number | ES850 |
| Sample 1 S/N: | N/A |
| Sample 2 S/N: | N/A |
| Type | ATX12V |
| Test Date | 2/4/25 |

| Rated | Value | Units |
|--------------------|---------|-------|
| Input Voltage | 100-240 | Volts |
| Input Current | 10-6 | Amps |
| Input Frequency | 50-60 | Hz |
| Rated Output Power | 850 | Watts |

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



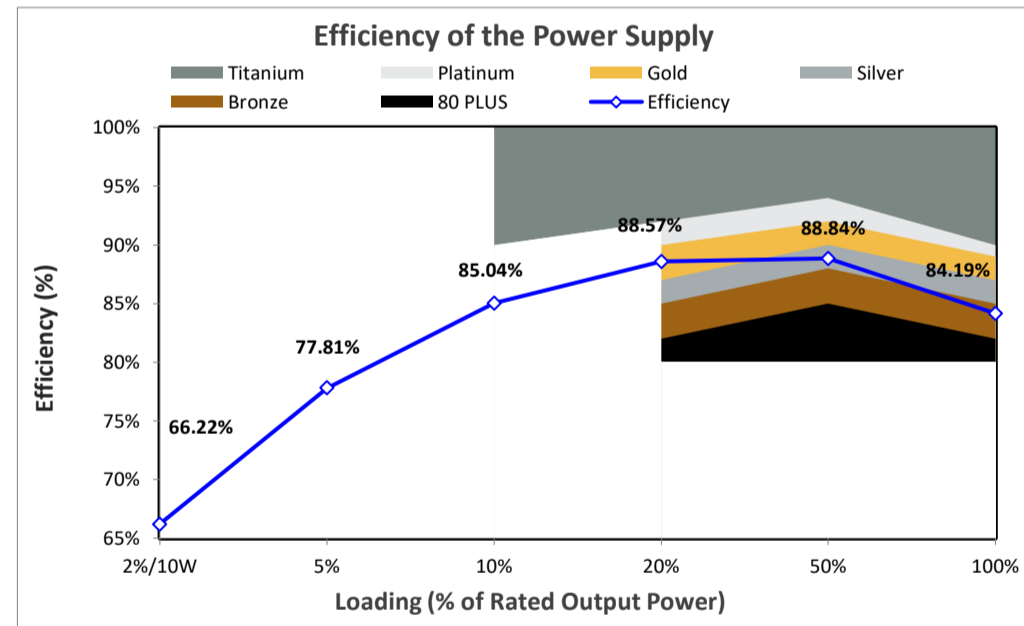
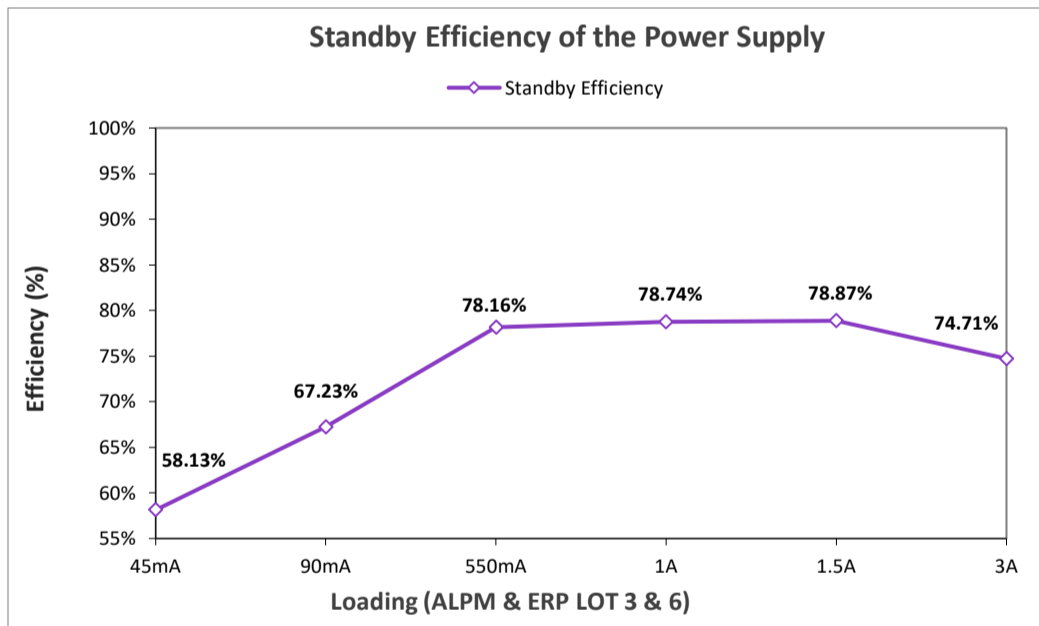
Input AC Current Waveform (ITHD = 6.19%, 50% Load)

| 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 | | |
| 0.154 | 0.5494 | 31.61 | 0% | 9.76 | No-Load | | | | | | |
| 0.276 | 0.8265 | 20.97 | 2%/10W | 26.25 | 12.252/1.245 | 11.963/0.005 | 3.388/0.211 | 5.166/0.211 | 5.142/0.053 | 17.38 | 66.22% |
| 0.516 | 0.9403 | 13.11 | 5% | 55.81 | 12.247/3.110 | 11.966/0.013 | 3.385/0.529 | 5.160/0.529 | 5.136/0.132 | 43.42 | 77.81% |
| 0.909 | 0.9762 | 11.00 | 10% | 102.03 | 12.240/6.218 | 11.897/0.026 | 3.380/1.056 | 5.151/1.056 | 5.128/0.263 | 86.77 | 85.04% |
| 1.752 | 0.9712 | 13.42 | 20% | 195.64 | 12.226/12.435 | 11.798/0.053 | 3.369/2.113 | 5.131/2.113 | 5.110/0.527 | 173.28 | 88.57% |
| 4.253 | 0.9919 | 6.19 | 50% | 485.28 | 12.180/31.086 | 11.635/0.132 | 3.335/5.287 | 5.073/5.287 | 5.054/1.317 | 431.14 | 88.84% |
| 8.854 | 0.9971 | 4.14 | 100% | 1014.79 | 12.090/62.158 | 11.498/0.263 | 3.272/10.574 | 4.970/10.575 | 4.953/2.633 | 854.30 | 84.19% |

Note: Efficiency data was obtained from Sample 1 (Serial Number: N/A)

| I _{RMS} (A) | PF | I _{THD} (%) | Load | Input Watts | DC Terminal Voltage (V)/ DC Load Current (A) | | Output Watts | Standby Efficiency |
|----------------------|--------|----------------------|-------|-------------|--|--------------|--------------|--------------------|
| | | | | | 5VSB | Vampire Load | | |
| 0.073 | 0.0129 | 3.35 | 0mA | 0.11 | | | | |
| 0.073 | 0.0472 | 13.75 | 45mA | 0.40 | | 5.133/0.045 | 0.23 | 58.13% |
| 0.075 | 0.0799 | 22.26 | 90mA | 0.69 | | 5.132/0.090 | 0.46 | 67.23% |
| 0.106 | 0.2945 | 67.56 | 550mA | 3.60 | | 5.115/0.550 | 2.81 | 78.16% |
| 0.148 | 0.3795 | 78.94 | 1A | 6.48 | | 5.099/1.000 | 5.10 | 78.74% |
| 0.199 | 0.4186 | 83.48 | 1.5A | 9.66 | | 5.081/1.500 | 7.62 | 78.87% |
| 0.363 | 0.4728 | 85.92 | 3A | 20.20 | | 5.026/3.003 | 15.09 | 74.71% |

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: N/A)



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. <https://www.clearexult.com/80plus/> [clearexult.com]