

80 PLUS Verification and Testing Report

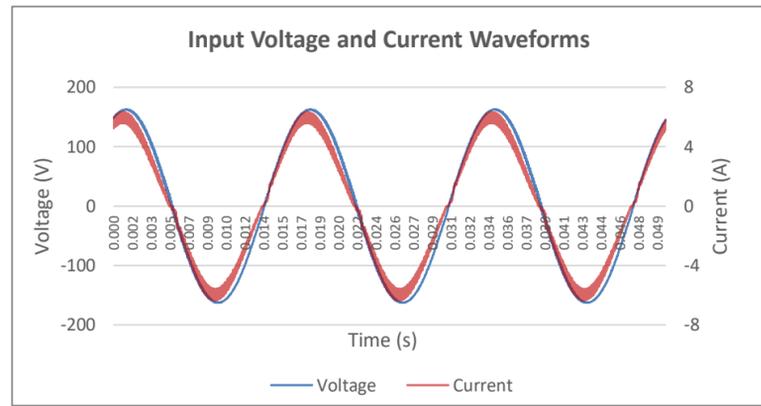
| | |
|--------------------------------|--------|
| TYPICAL EFFICIENCY (50% Load): | 91.26% |
| AVERAGE EFFICIENCY : | 87.77% |
| 80 PLUS COMPLIANT: | Gold |



| | |
|---------------|----------------|
| ID Number | 7278 |
| Manufacturer | 1st Player |
| Model Number | HA-850BA4 |
| Serial Number | N/A |
| Year | 2024 |
| Type | ATX12V, EPS12V |
| Test Date | 1/24/24 |

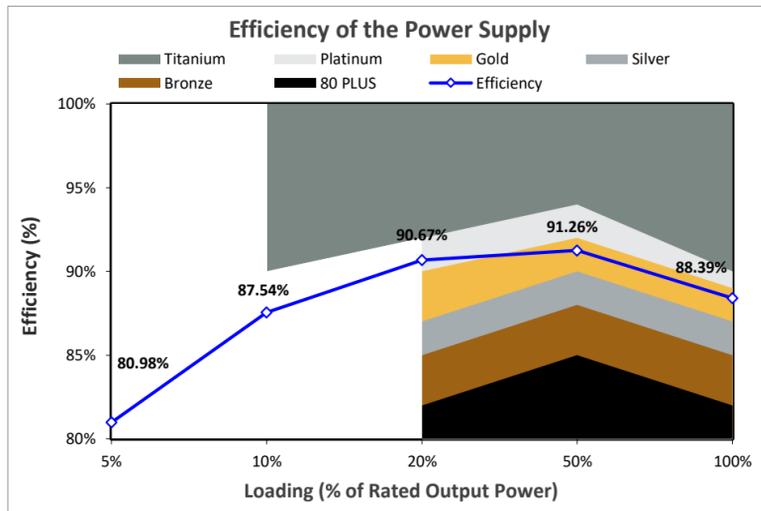
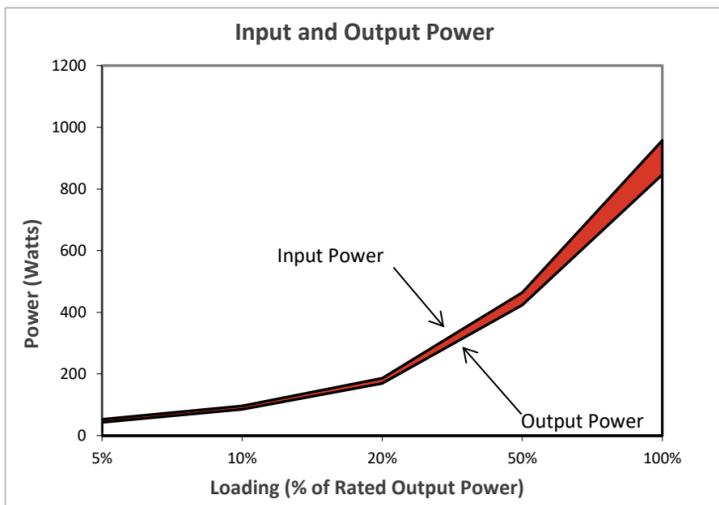
| Rated Specifications | Value | Units |
|----------------------|---------|-------|
| Input Voltage | 100-240 | Volts |
| Input Current | 10-5 | Amps |
| Input Frequency | 50-60 | Hz |
| Rated Output Power | 850 | Watts |

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



Input AC Current Waveform (ITHD = 5.34%, 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 | 5Vstb | | |
| 0.110 | 0.5971 | 27.31 | 0% | 7.57 | No-Load | | | | | | |
| 0.482 | 0.9486 | 11.05 | 5% | 52.53 | 11.98/3.05 | 11.94/0.013 | 3.34/0.62 | 5.07/0.62 | 5.13/0.129 | 42.53 | 80.98% |
| 0.863 | 0.9744 | 9.30 | 10% | 96.70 | 11.91/6.09 | 11.97/0.026 | 3.34/1.24 | 5.07/1.24 | 5.12/0.258 | 84.65 | 87.54% |
| 1.651 | 0.9836 | 9.12 | 20% | 186.74 | 11.91/12.19 | 12.02/0.052 | 3.34/2.49 | 5.07/2.49 | 5.1/0.516 | 169.32 | 90.67% |
| 4.051 | 0.9951 | 5.34 | 50% | 463.62 | 11.91/30.45 | 12.16/0.129 | 3.34/6.22 | 5.07/6.22 | 5.05/1.29 | 423.08 | 91.26% |
| 8.342 | 0.9977 | 3.60 | 100% | 957.31 | 11.92/60.9 | 12.38/0.258 | 3.34/12.44 | 5.07/12.44 | 4.95/2.579 | 846.16 | 88.39% |



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/>