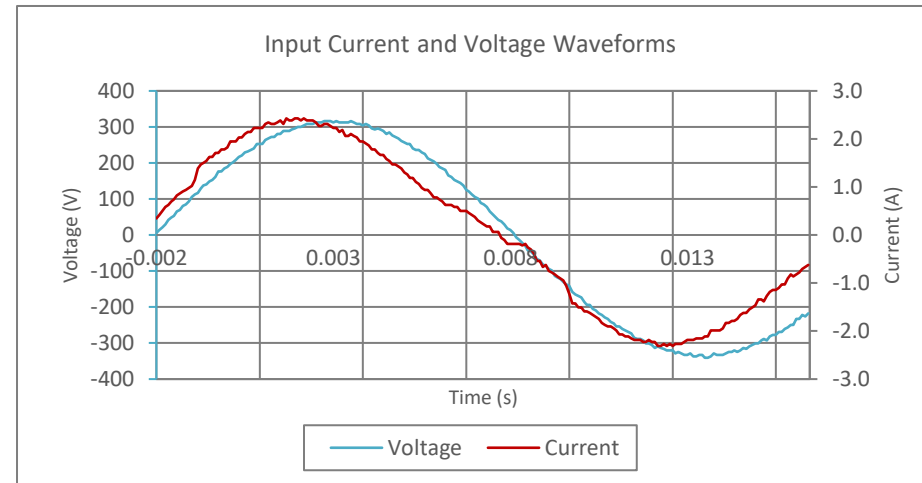


80 PLUS Verification and Testing Report

| | |
|---------------------------------------|---------------|
| TYPICAL EFFICIENCY (50% Load): | 88.70% |
| AVERAGE EFFICIENCY : | 87.18% |
| 80 PLUS COMPLIANT: | YES |



| | |
|----------------------|------------|
| ID Number | EU-783 |
| Manufacturer | 1st Player |
| Model Number | HA-600AC2 |
| Serial Number | N/A |
| Year | 2021 |
| Type | ATX12V |
| Test Date | 1/18/21 |

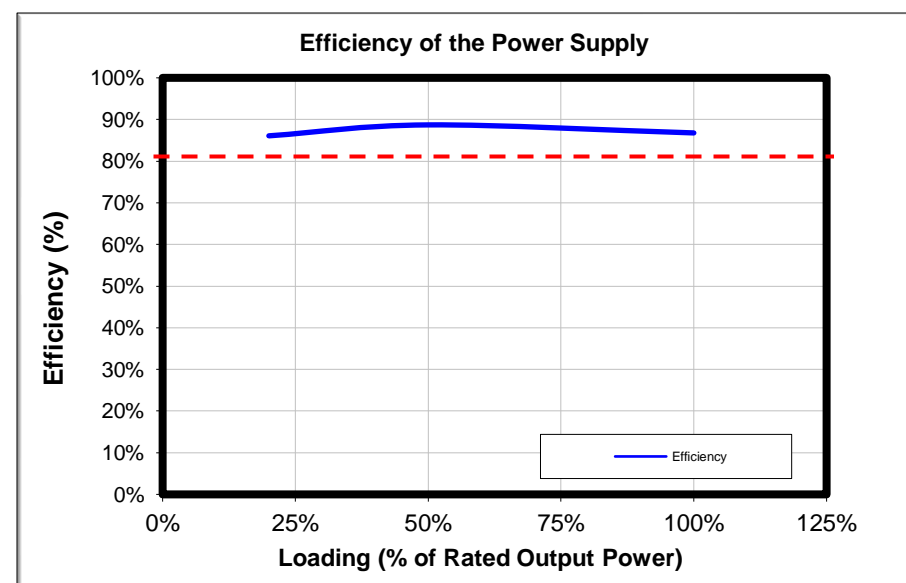
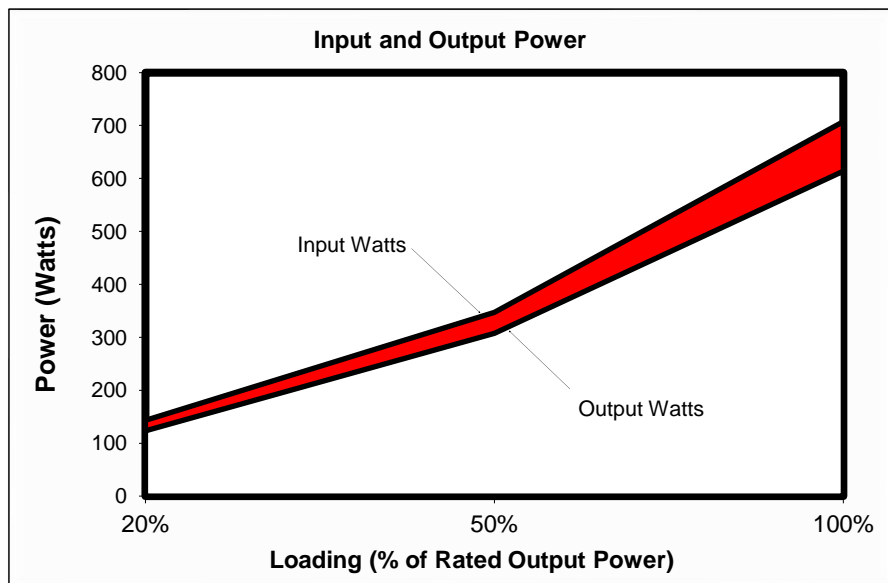


| Rated Specifications | Value | Units |
|---------------------------|------------|--------------|
| Input Voltage | 200-240 | Volts |
| Input Current | 8 | Amps |
| Input Frequency | 50-60 | Hz |
| Rated Output Power | 600 | Watts |

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

Input AC Current Waveform (ITHD = 11.19%, 50% Load)

| 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.) | -12V | 3.3V | 5V | 5Vsb | | |
| 0.40 | 0.83 | 15.59% | 10% | 76.84 | 12.28/4.19 | 12.36/0.03 | 3.41/1.01 | 5.11/1.01 | 5.04/0.21 | 61.49 | 80.02% |
| 0.68 | 0.92 | 13.73% | 20% | 143.20 | 12.28/8.42 | 12.36/0.05 | 3.41/2.02 | 5.1/2.01 | 5.02/0.42 | 123.26 | 86.08% |
| 1.56 | 0.97 | 11.19% | 50% | 347.00 | 12.27/21.06 | 12.28/0.13 | 3.38/5.05 | 5.08/5.01 | 4.98/1.05 | 307.80 | 88.70% |
| 3.12 | 0.99 | 6.49% | 100% | 707.50 | 12.27/42.09 | 12.35/0.25 | 3.34/10.1 | 5.04/9.99 | 4.91/2.09 | 613.90 | 86.77% |



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/>