# 80 PLUS Verification and Testing Report

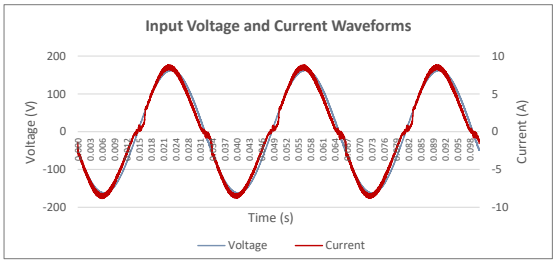
| | |
|---|---|
| **TYPICAL EFFICIENCY (50% Load):** | **93.09%** |
| **AVERAGE EFFICIENCY :** | **87.18%** |
| **AVERAGE STANDBY EFFICIENCY :** | **79.36%** |
| **80 PLUS COMPLIANT:** | **Platinum** |



| | |
|---|---|
| **ID Number** | 7958 |
| **Manufacturer** | Thermaltake |
| **Model Number** | TTP-1200AH3FCP TOUGHPOWER PT 1200W |
| **Sample 1 S/N:** | PSTPP1200FNFAPU1BLCW00059 |
| **Sample 2 S/N:** | PSTPP1200FNFAPU1BLCW00058 |
| **Type** | ATX 3.1 |
| **Test Date** | 8/29/25 |

| Rated | Value | Units |
|---|---|---|
| **Input Voltage** | 100-240 | **Volts** |
| **Input Current** | 15 | **Amps** |
| **Input Frequency** | 47-63 | **Hz** |
| **Rated Output Power** | 1200 | **Watts** |

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



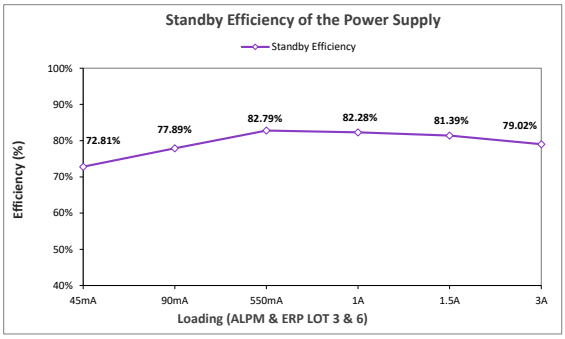

Input AC Current Waveform (ITHD = 10.01%, 50% Load)

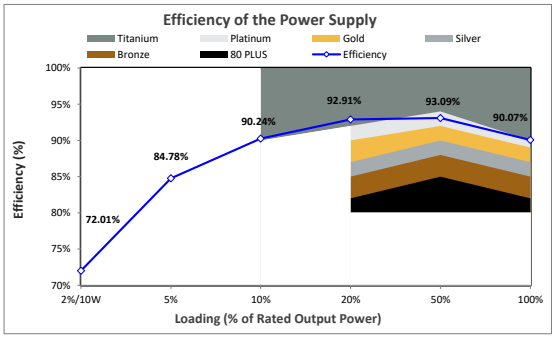
| $I_{RMS\ (A)}$ | PF | $I_{THD\ (\%)}$ | Load | Input Watts | DC Terminal Voltage (V)/ DC Load Current (A) | | | | | Output Watts | Efficiency |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 12V (cumulative of 12V1, 12V2, etc.) | -12V | 3.3V | 5V | 5VSB | | |
| 0.142 | 0.4961 | 23.08 | 0% | **8.12** | **No-Load** | | | | | | |
| 0.340 | **0.8550** | 24.68 | 2%/10W | **33.44** | 12.036/1.807 | 12.149/0.005 | 3.337/0.239 | 4.999/0.239 | 5.111/0.054 | **24.08** | **72.01%** |
| 0.647 | **0.9547** | 21.15 | 5% | **71.00** | 12.036/4.517 | 12.147/0.014 | 3.336/0.598 | 4.999/0.599 | 5.106/0.136 | **60.20** | **84.78%** |
| 1.192 | **0.9734** | 19.49 | 10% | **133.38** | 12.036/9.030 | 12.147/0.027 | 3.336/1.197 | 4.999/1.197 | 5.098/0.271 | **120.36** | **90.24%** |
| 2.278 | **0.9892** | 13.27 | 20% | **259.12** | 12.035/18.062 | 12.147/0.054 | 3.336/2.393 | 5.000/2.394 | 5.082/0.542 | **240.74** | **92.91%** |
| 5.664 | **0.9927** | 10.01 | 50% | **646.49** | 12.035/45.156 | 12.157/0.136 | 3.337/5.985 | 5.003/5.985 | 5.032/1.355 | **601.84** | **93.09%** |
| 11.647 | **0.9971** | 6.33 | 100% | **1335.41** | 12.030/90.306 | 12.164/0.271 | 3.333/11.969 | 5.000/11.969 | 4.950/2.710 | **1202.76** | **90.07%** |

Note: Efficiency data was obtained from Sample 1 (Serial Number: PSTPP1200FNFAPU1BLCW00059)

| $I_{RMS\ (A)}$ | PF | $I_{THD\ (\%)}$ | Load | Input Watts | DC Terminal Voltage (V)/ DC Load Current (A) | Output Watts | Standby Efficiency |
|---|---|---|---|---|---|---|---|
| | | | | | 5VSB | | |
| 0.098 | 0.0034 | 3.39 | 0mA | **0.04** | **Vampire Load** | | |
| 0.110 | **0.0250** | 8.89 | 45mA | **0.32** | 5.108/0.045 | **0.23** | **72.81%** |
| 0.104 | **0.0491** | 16.19 | 90mA | **0.59** | 5.106/0.090 | **0.46** | **77.89%** |
| 0.130 | **0.2254** | 55.03 | 550mA | **3.38** | 5.088/0.550 | **2.80** | **82.79%** |
| 0.169 | **0.3164** | 70.71 | 1A | **6.16** | 5.070/1.000 | **5.07** | **82.28%** |
| 0.205 | **0.3944** | 76.87 | 1.5A | **9.31** | 5.050/1.500 | **7.57** | **81.39%** |
| 0.340 | **0.4848** | 82.15 | 3A | **18.95** | 4.988/3.001 | **14.97** | **79.02%** |

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: PSTPP1200FNFAPU1BLCW00058)




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.
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