

80 PLUS Verification and Testing Report

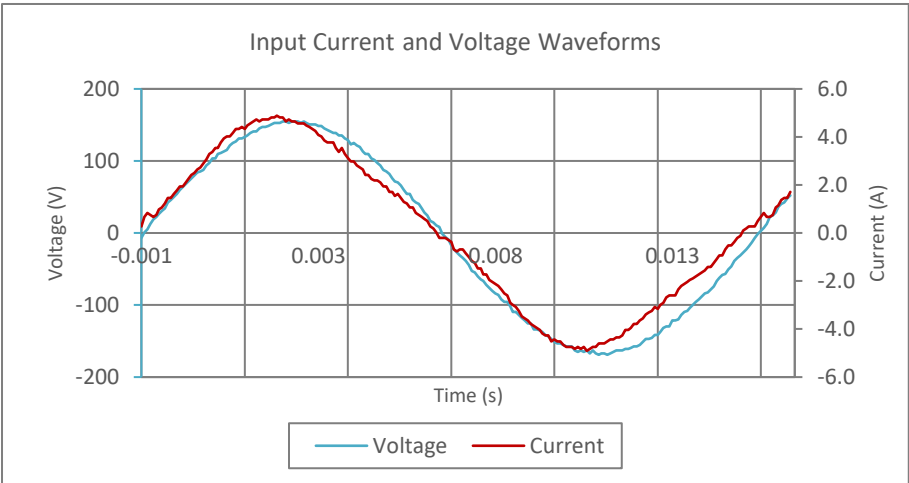
|                                |        |
|--------------------------------|--------|
| TYPICAL EFFICIENCY (50% Load): | 91.24% |
| AVERAGE EFFICIENCY :           | 89.85% |
| 80 PLUS COMPLIANT:             | YES    |



|               |                               |
|---------------|-------------------------------|
| ID Number     | 5591                          |
| Manufacturer  | Cooler Master Technology Inc. |
| Model Number  | MPG-6501-AFBAG                |
| Serial Number | N/A                           |
| Year          | 2019                          |
| Type          | ATX12V, EPS12V                |
| Test Date     | 6/28/19                       |

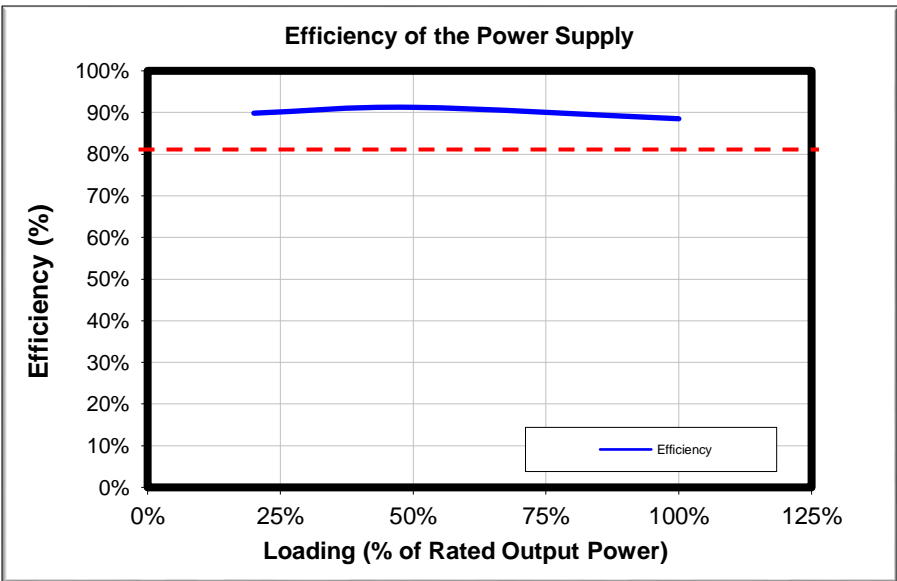
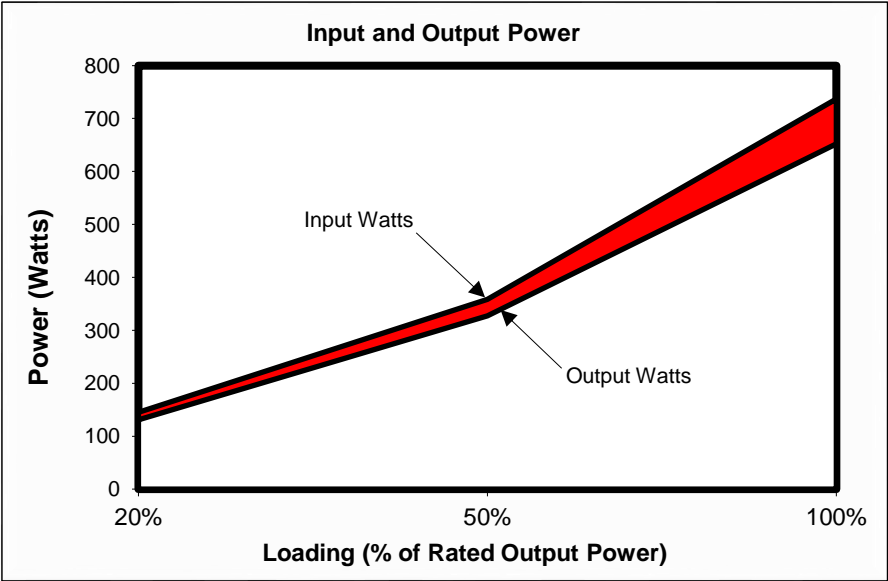
| Rated Specifications | Value   | Units |
|----------------------|---------|-------|
| Input Voltage        | 100-240 | Volts |
| Input Current        | 9       | Amps  |
| Input Frequency      | 50-60   | Hz    |
| Rated Output Power   | 650     | Watts |

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



Input AC Current Waveform (ITHD = 9%, 50% Load)

| I <sub>RMS</sub> | PF   | I <sub>THD</sub> | Load | Input<br>Watts | DC Terminal Voltage (V)/ DC Load Current (A) |            |            |            |           | Output<br>Watts | Efficiency |
|------------------|------|------------------|------|----------------|--|------------|------------|------------|-----------|-----------------|------------|
|                  |      |                  |      |                | 12V (cumulative of 12V1, 12V2, etc.)         | -12V       | 3.3V       | 5V         | 5Vsb      |                 |            |
| 0.71             | 0.95 | 19.39%           | 10%  | 76.90          | 12.04/4.6                                    | 11.89/0.03 | 3.34/1.02  | 4.99/1.02  | 5.03/0.25 | 65.53           | 85.21%     |
| 1.29             | 0.98 | 13.52%           | 20%  | 145.50         | 12.05/9.18                                   | 11.92/0.05 | 3.33/2.04  | 4.99/2.03  | 5.01/0.51 | 130.70          | 89.83%     |
| 3.15             | 0.99 | 9.00%            | 50%  | 358.50         | 12.05/23                                     | 12.01/0.13 | 3.31/5.11  | 4.97/5.07  | 4.95/1.27 | 327.10          | 91.24%     |
| 6.54             | 0.98 | 14.87%           | 100% | 737.10         | 12.04/45.95                                  | 11.84/0.25 | 3.27/10.23 | 4.94/10.12 | 4.89/2.54 | 652.30          | 88.50%     |



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/>

