

# Medically Approved 300W ATX PC Power Supply

Product # TMPC-300-P4



5.91" X 5.51" X 3.39"  
(150 X 140 X 86 mm)

## Features

- ATX Rev. 2.03 Compatible with P4 Connector
- High Efficiency
- Low Ripple & Noise
- Output Overvoltage Protections
- Short Circuit Protection on All Outputs
- Resettable Power Shutdown
- On/Off Switch + Remote On/Off Control
- Approved to UL 2601-1, IEC 601-1, EN 60601-1 Medical Standards
- Complies with FCC Part 15, Subpart J Class B and CISPR 22
- Ball-Bearing Fan + Noise Killer
- 100% Burn-in @50°C
- MTBF > 100,000 Hours @25°C
- 100% Hi-Pot Test
- Input Line Fuse Protection

- \*12V cable/connector for P4 is standard.*
- \*Unit without on/off switch is optional.*
- \*Universal input + PFC model available.*

## Input Specifications

Voltage: 90-132 VAC or 180-264 VAC switchable

Frequency: 47Hz to 63 Hz

Input current: 8A max. @115 VAC/60Hz; 4A max. @230 VAC/50Hz

## Other Specifications

Temperature range: Operating 0°C~50°C; Non-operating: -20°C~65°C

Temperature coefficient: 0.01%/°C

Transient response: Output voltage returns in less than 1 ms max. following a 25% load change

Hold up time: 16ms minimum at full load & nominal input voltage

Dielectric withstand: 1800 VAC from input to output for 1 sec.; 1800 VAC from input to frame ground for 1 sec.

Humidity: 5~95% RH

Efficiency: 65% min.; 70% typical, at full load

Power good signal: turn-on delay 100 ms to 500 ms

Overload protection: 150% Max.

Inrush current: 60A cold, 80A warm at 132 VAC @ 25°C ambient

Over voltage protections: +5V output: 6.5V; +3.3V output: 4.6V; +12V output: 15.5V

## Output Specifications

| DC Output Voltage | Minimum Load | Normal Load | *Maximum Load | Regulation |      | Ripple & Noise P-P (Max.) |
|-------------------|--------------|-------------|---------------|------------|------|---------------------------|
|                   |              |             |               | Load       | Line |                           |
| +3.3V             | 0A           | 7A          | *3/14A        | ±5%        | ±1%  | 50mV P-P                  |
| +5V               | 1.5A         | 15A         | *30/23A       | ±5%        | ±1%  | 50mV P-P                  |
| +12V              | 0.1A         | 4A          | 10A           | ±5%        | ±1%  | 120mV P-P                 |
| -12V              | 0A           | 0.4A        | 0.8A          | ±10%       | ±2%  | 120mV P-P                 |
| -5V               | 0A           | 0.15A       | 0.3A          | ±10%       | ±2%  | 120mV P-P                 |
| +5Vsb             | 0A           | 1A          | 2.0A          | ±5%        | ±1%  | 50mV P-P                  |

\*Total output on +3.3V & +5V not to exceed 160 watts.

\*Total output on +3.3V, +5V and +12V not to exceed 280 watts.

TMPC-300-B2 -1/2008-

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