



**Sparkle Power Inc.**  
A Leading Power Supply Manufacturer  
Web site: [www.sparklepower.com](http://www.sparklepower.com)



## ATX-400PN

### 400 Watts ATX12V 2.01 Switching Power Supply

#### Features

- Complied with ATX12V 2.0 standard
- High efficiency and reliability
- Remote On/Off function
- Internal 12V DC fan included
- Noise Killer (Thermal fan speed control function)
- Low noise and ripple
- Complies with FCC part 15 subpart J Class B and CISPR 22 Class B
- Output over voltage, short circuit, and over current protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Approved by UL 60950, IEC 60950, TUV EN60950, NEMKO (CB Report)

#### Input Characteristics

**Input Range:** 100~132Vrms or 200~264Vrms, Manual selection

**Frequency:** 47~63Hz

**Input Current:** 8.5A (RMS) @115Vrms/60Hz, 5A (RMS) @ 230Vrms/50Hz

**Inrush Current:** 100A Max cold start, 120A Max warm start measured at 264Vrms/50Hz

#### Output Characteristics

| Output Voltage | Minimum Load | Normal Load | Maximum Load | Load Reg. | Line Reg. | Ripple & Noise |
|----------------|--------------|-------------|--------------|-----------|-----------|----------------|
| +3.3V          | 0.5A         | 15.0A       | 30A          | ± 5%      | ± 1%      | 50mV P-P       |
| +5V            | 1.0A         | 14.0A       | 28A          | ± 5%      | ± 1%      | 50mV P-P       |
| +12V1DC        | 1.0A         | 7.0A        | 18A          | ± 5%      | ± 1%      | 120mV P-P      |
| +12V2DC        | 1.0A         | 8.5A        | 18A          | ± 5%      | ± 1%      | 120mV P-P      |
| -12V           | 0.0A         | 0.4A        | 0.5A         | ± 10%     | ± 2%      | 120mV P-P      |
| +5Vsb          | 0.0A         | 1.0A        | 2.0 A        | ± 5%      | ± 1%      | 50mV P-P       |

\*+3.3V and +5V total output not exceed 150W

When +3.3V is load to 30A, the +5V maximum load is 10A

When +3.3V is load to 3.0A, the +5V maximum load is 28A

\*+12V1DC, 12V2DC total power not exceed 348W

\*+3.3V, +5V, +12V1DC, and +12V2DC total output not exceed 385W

#### Specification

- **Temperature Range:** Operating 0° C ~ +25° C on full load; De-rate 2W/°C from +25°C to +50°C. Storage & shipping -20° C ~ +65° C
- **Humidity:** 90% on operating and 95% on storage
- **Dielectric Withstand:** Input to frame ground 1800V AC for 1 second
- **Efficiency: 70%** minimum measured at nominal AC main voltage and frequency with maximum loads on all outputs
- **Rise Time:** Less than 20ms on all outputs
- **Hold-up Time:** 17ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ms to 500 ms, off delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Not exceed 3.5mA
- **MTBF:** 100,000 hours on maximum load at +25° C
- **Dimension (WxHxL):** 150x86x140mm / 6x3.4x5.5inches

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