



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

**SPI300MP**  
**(RoHS Compliant)**  
**300 Watts ATX12V, Medical Grade Power Supply**

**Features**

- Complied with ATX12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Compatible with European Union Directive 2002/95/EC (Restriction on Hazardous Substances).
- Remote ON/OFF function
- Internal 12V DC fan included
- Low noise and ripple
- Output over voltage, short circuit, and over current protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Complies with FCC part 18 subpart C, 120Vac operation, and EN60601-1-2, EN55011 at 230Vac operation
- Approved by UL,CUL 60601, VDE ,NEMKO (CB REPORT), FCC, EMC,CE

**Input Characteristics**

**Input Range:** 90 ~ 265Vac , Full Range Input  
**Frequency:** 47 ~ 63Hz  
**Input Current:** Max 6A @ 115Vac,3A @ 230Vac  
**Inrush Current:** No damage

**Output Characteristics**

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0.5A	12.5A	25A	± 5%	50mV P-P
+5V	0.3A	14A	28A	± 5%	50mV P-P
+12V1	1.0A	8.5A	17A	± 5%	120mV P-P
+12V2	1.0A	8.5A	17A	± 5%	120mV P-P
-12V	0.0A	0.4A	0.8A	± 10%	120mV P-P
+5Vsb	0.0A	1.0A	2.0A	± 5%	50mV P-P
-5V	0.0A	0.15A	0.3A	±10%	100mV P-P

\*+3.3V and +5V total output not exceed 150W.  
 \* Total output for this subject power supply is 300W

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**Specification**

- **Temperature Range:** Operating: 0°C ~ +50°C , Full load at 25°C ; storage & shipping: -20°C ~ +80°C
- **Humidity:** 85% on operating,95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 1 second
- **Efficiency:** 68% minimum
- **Rise time:** Less than 20ms
- **Hold-up Time:**20ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Less than 0.3mA at 264Vac,63Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 140x150x86mm / 5.5x5.9x3.4inch