



# Sparkle Power Inc.

A Leading Power Supply manufacturer  
Web site: [www.sparklepower.com](http://www.sparklepower.com)



## FSP300-60MD (Medical Grade) 300 Watts ATX Switching Power Supply

### Features

- Complied with ATX 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 2601, VDE, CB Report

### Input Characteristics

**Input Range:** 90~132/180~264V AC, Manual-select  
**Frequency:** 47~63Hz  
**Input Current:** 8A (RMS) @115V AC, 4A (RMS) @230VAC  
**Inrush Current:** 42A Max for 115V AC Cold Start

### Specification

- **Temperature Range:** Operating 0° C ~ +50° C on full load; storage & shipping -20° C ~ +65° C
- **Humidity:** 90% on operating and 95% on storage
- **Dielectric Withstand:** Primary to frame ground 1800V AC for 1 second
- **Efficiency:** 65% at minimum measured at nominal AC main voltage and frequency with maximum load on all output
- **Rise Time:** Less than 20ms on all output
- **Hold-up Time:** 16.6ms minimum at 115V/60Hz; 20ms minimum at 230V/50Hz input voltage
- **Power Good Signal:** Power on delay time 100 ms to 500 ms, off delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Less than 0.5mA at 254V AC/50Hz
- **MTBF:** 100,000 hours on maximum load at +25° C degree
- **Dimension (WxHxL):** 150x86x140mm/5.9"x3.4"x5.5" inches

### Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.2A	3/14A	± 5%	± 1%	50mV P-P
+5V	1.5A	30/23A	± 5%	± 1%	50mV P-P
+12V	0.0A	10A	± 5%	± 1%	120mV P-P
-5V	0.0A	0.3A	± 10%	± 2%	120mV P-P
-12V	0.0A	0.8A	± 10%	± 2%	120mV P-P
+5Vsb	0.0A	2.0A	± 5%	± 1%	50mV P-P

\*+5V and +3.3V total output not exceed 160W  
 \*When +3.3V is load to 14A, the +5V maximum load is 23A  
 \*When +3.3V is load to 3A, the +5V maximum load is 30A  
 \*+3.3V, +5V, and +12V total output not exceed 280W

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