



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



## **FSP1200-50AMPD**

**Fully Modular, cable management**

**Meet 80 PLUS Platinum, RoHS Compliant**

**1200 Watts ATX 12V Switching 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 2011/65/EU & (EU)2015/863 (Restriction on Hazardous Substances).
- Remote ON/OFF function
- Internal 12V DC fan included
- Noise Killer
- AC input I/O switch is 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 15 subpart J class B 115Vac operation, and CISPR 22 class B at 230Vac operation
- Approved by CB 60950-1 2<sup>nd</sup>, EMC. CUL/UL TUV, FCC,

### **Input Characteristics**

**Input Range:** 100 ~ 264Vac (RMS), Full Range Input

**Frequency:** 47 ~ 63Hz

**Input Current:** Max 15A(RMS)@ 115Vac, 9A(RMS)@ 230Vac

**Inrush Current:** No damage at cold start

### **Output Characteristics**

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0.1A	25A	± 5%	75mV P-P
+5V	0.1A	25A	± 5%	75mV P-P
+12V	0.5A	100A	± 5%	120mV P-P
-12V	0A	0.8A	± 10%	120mV P-P
+5Vsb	0.1A	3.0A(peak 3.5A)	± 5%	75mV P-P

\*+3.3V and +5V total output not exceed 160W.

\*Maximum combined current for the 12V outputs shall be 100A,

\* Total output for this subject power supply is 1200W.

### **Specification**

- **Temperature Range:** Operating: 0°C ~ +40°C on full load; storage & shipping: -20°C ~ +80°C
- **Humidity:** 5~95% on operating, 5~95% on storage
- **Dielectric Withstand:** Primary frame ground 3000Vac for 3 second.
- **Efficiency: Typical > 92%**
- **Altitude:** Applied for tropical Climates and use at altitudes not exceeding 5000M above sea level.
- **5Vsb efficiency:** 5Vsb efficiency is greater than 50% at power off mode (PS\_ON input at high state) which is comply with Eup Lot 6 year 2013 requirement..
- **Rise time:** Less than 20ms
- **Hold-up Time:** 17 ms 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 3.5mA at 264Vac, 63Hz
- **MTBF:** A minimum predicted MTBF (MIL-HDBK-217) of 100,000 hours of continuous operation at +25°C.
- **Dimensions (LxWxH):** 190x150x86mm / 7.48x5.9x3.4inch

**Sparkle Power Inc.**  
**Main Office**  
48502 Kato Road.  
Fremont CA 94538  
TEL: 408-519-8888  
FAX: 408-519-9999  
E-MAIL: [info@sparklepower.com](mailto:info@sparklepower.com)

**Sparkle Power Inc.**  
**Los Angeles Office**  
17071 Green Drive  
City of Industry, CA 91745  
TEL: 626-839-7180  
FAX: 626-839-3395