



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



**FSP600-50UEB**  
**(Meet 80plus Bronze, RoHs Compliant)**  
**600 Watts 1U Switching Power Supply**

**Features**

- Complied with 1U ATX and ATX12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Restriction on Hazardous Substances. Compatible with European Union Directive 2011/65/EU & (EU)2015/863, WEEE directive 2012/19/EU .
- 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 15 subpart J, class 'B' 115Vac operation, and CISPR 22 class 'B' at 230Vac operation
- Approved by CB 62368 & 60950-1 2<sup>nd</sup> , EMC. cUL/UL TUV, FCC, CE

**Input Characteristics**

**Input Range:** 90 ~ 264Vac (RMS), Full Range Input  
**Frequency:** 47 ~ 63Hz  
**Input Current:** Max 10A (RMS) @ 115Vac, 5A (RMS) @ 230Vac  
**Inrush Current:** No damage.

**Output Characteristics**

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0A	24.0A	± 5%	50mV P-P
+5V	0A	30.0A	± 5%	50mV P-P
+12V	0.05A	50A	± 5%	120mV P-P
-12V	0A	0.5A	± 10%	120mV P-P
+5Vsb	0A	4A	± 5%	50mV P-P

\*+3.3V and +5V total output not exceed 180W.  
\* Total output for this subject power supply is 600W

**Specification**

- **Temperature Range:** Operating: 0°C ~ +50°C;  
storage : -20°C ~ +80°C
- **Humidity:** 5~85% RH, Non-condensing on operating,  
5~95%RH, Non-condensing on storage.
- **Dielectric Withstand:** Primary frame ground 1800V AC  
for 2 second
- **Efficiency:** Typical > 85%
- **Standby Power Consumption (5Vsb):**  
Efficiency> 45% @ 5Vsb/45mA & 230Vac input (2013 Lot 6)  
Efficiency> 55% @ 5Vsb/550mA & 230Vac input  
Efficiency> 70% @ 5Vsb/1A & 230Vac input  
Efficiency > 70% @ 5Vsb/4A & 230Vac input
- **Altitude:** The power supply is applied for tropical climates  
and use at altitudes not exceeding 5000m above Sea level
- **Rise time:** Less than 20ms
- **Hold-up Time:** Minimum 17ms, at Full load.
- **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, 50Hz
- **MTBF:** A minimum predicted MTBF (MIL-HDBK-217) of  
100,000 hours of continuous operation at +25°C.
- **Dimensions (LxWxH):** 220x100x40.5mm  
8.67x3.94x1.60inch

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