



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



**FSP100-50GLT**  
**(RoHS Compliant)**  
**100 Watts TFX Power Supply**

**Features**

- Complied with TFX12V standard
- 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
- Noise Killer (thermal fan speed control function)
- 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 CUL/UL60950-1, TUV EN60950-1 A2,CB 60950-1 A1 report, FCC,EMC.

**Input Characteristics**

**Input Range:** 115Vac ~ 230Vac,  
**Frequency:** 47 ~ 63Hz  
**Input Current:** Max 1.5A @ 115Vac, 1.0A @ 230Vac  
**Inrush Current:** No damage.

**Output Characteristics**

| Output  | MINIMUM LOAD | NORMAL LOAD | MAXIMUM LOAD | LOAD REG. | LINE REG. | RIPPLE&NOISE |
|---------|--------------|-------------|--------------|-----------|-----------|--------------|
| +3.3VDC | 0.31A        | 6A          | 12A          | ±5%       | ±1%       | 70mV P-P     |
| +5VDC   | 0.5A         | 7A          | 14A          | ±5%       | ±1%       | 70mV P-P     |
| +12VDC  | 0.09A        | 3.75A       | 7.5A         | ±5%       | ±1%       | 150mV P-P    |
| -12VDC  | 0A           | 0.15A       | 0.3A         | ±10%      | ±1%       | 150mV P-P    |
| +5VSB   | 0.08A        | 1A          | 2A           | ±5%       | ±1%       | 70mV P-P     |

\* +3.3V & +5V total output does not exceed 75W  
 \* Total output continuous shall not exceed 100W

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**Specification**

- **Temperature Range:** Operating: +10°C ~ +50°C on full load  
 Storage & Shipping: -20°C ~ +80°C
- **Humidity:** 5-95% on operating, 5-95% on storage
- **Dielectric Withstand:** Primary to frame ground 1800V<sub>AC</sub> for 1 second
- **Rise time:** Less than 20ms (5Vsb less than 25ms)
- **Hold-up Time:** 17ms 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, 50Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 175x85x70mm / 6.9x3.4x2.8inch