

Sparkle Power Inc. A Leading Power Supply Manufacturer Web site: <u>www.sparklepower.com</u>

FSP850-50ADB

Meet 80 PLUS Gold, RoHS Compliant 850 Watts ATX Switching Power Supply

Features

- Full modular cable management.
- 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
- With AC input I/O switch.
- 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 2nd, EMC. UL TUV, FCC.

Input Characteristics

Input Range: 90 ~ 264Vac (RMS), Full Range Input Frequency: 47 ~ 63Hz Input Current: Max 17A(RMS) @ 115Vac, 8.5A(RMS) @ 230Vac Inrush Current: No damage at cold start





Specification

• Temperature Range: Operating: 0°C ~ +50°C

Storage & shipping: -20°C ~ +80°C

• Humidity: operating: 10~90% RH, Non-condensing,

Storage: 95% RH, Non-condensing,

- Dielectric Withstand: Primary frame ground 1800V AC for 2 second
- Efficiency: Typical > 90%
- Altitude: Operation Altitude : 5000 meters above sea level.
- Standby Power consumption (5Vsb):

Load	Efficient	
45mA	>=50%	
100 mA	>=55%	
250 mA	>=65%	
>=1A	>=75%	

- Rise time: Less than 20ms
- Hold-up Time: 17 ms minimum at 80% 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, 63Hz
- MTBF:A minimum predicted MTBF (MIL-HDBK-217) of 100,000 hours of continuous operation at +25°C.
- Dimensions (LxWxH): 190x150x86mm / 7.49x5.91x3.4inch

Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0A	25A	± 5%	50mV P-P
+5V	0.1A	25A	± 5%	50mV P-P
+12V	0.2A	70A	± 5%	120mV P-P
-12V	0A	0.5A	$\pm 10\%$	120mV P-P
+5Vsb	0.A	3.5A	± 5%	50mV P-P

* +3.3V and +5V total output not exceed 125W

* Total output for this subject power supply is 850W

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