Sparkle Power Inc.
A Leading Power Supply Manufacturer
Web site: www.sparklepower.com



FSP500-60MRA(S)

(80PLUS Gold, PM_Bus, RoHS Compliant)

500Watts 1+1 Mini Redundant
Switching Power Supply

Features

- Hot Swapping. Redundant, Power Management Bus (PM Bus REV1.2)
- Complied with latest Intel/AMD platform.
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency 80 Plus Gold
- Extremely high overall reliability with redundancy for 24 by 7
- Compatible with European Union Directive 2002/95/EC (Restriction on Hazardous Substances).
- Internal 12V DC fan included
- Audible Alarm, TTL Alarm Signal .and Power LED indicator SMB Alert for Fan fail, OVP, OCP, SCP.
- 100% Hi-pot, ATE, and burn-in tested
- Complies with FCC part 15 subpart J class B 115Vac operation, and CISPR 22 class B at 230Vac operation
- Approved by : UL/CUL60950-1,TUV EN60950-1, FCC, EMC,CE

Specification

- **Temperature Range:** Operating: 0°C ~ +50°C on full load; storage : -40°C ~ +70°C
- **Altitude :** Operating: up to 2K Meter; Non- Operating: 0~15KM.
- **Humidity:** 90% on operating, 95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 2 second
- **Efficiency:** Typical > 90%
- **Rise time:** 5~70mS
- **Hold-up Time:** 16 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, 50Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 190x150x84mm / 7.48x5.9x3.3 inch

Input Range: 90 ~ 264Vac, Full Range Input
Frequency: 47 ~ 63Hz
Input Current: 8A~4A at 100~240VAC
Inrush Current: No Damage

Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0A	20A	± 5%	50mV P-P
+5V	0A	20A	± 5%	50mV P-P
+12V	1A	40A	± 5%	120mV P-P
-5V	0A	0.3A	± 10%	200mV P-P
-12V	0A	0.5A	± 10%	200mV P-P
+5Vsb	0A	3A	± 5%	50mV P-P

*-5V is Option
*+3.3V and +5V total output not exceed 130W
* Total output for this subject power supply is 500W

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