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

SPR2CA4508

(80PLUS, RoHS Compliant)

450 Watts 1+1, 2U Hot-Swap Mini-Redundant Power Supply



Features

- Complied with ATX12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- Hot Swap Module
- High efficiency and reliability
- 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 : UL/CUL60950-1 2nd ,TUV 60950-1 2nd, CB 60950-1 2nd , FCC, EMC

Input Characteristics

Input Range: 90~140,180 ~ 264Vac (RMS), Auto Range Input
Frequency: 47 ~ 63Hz
Input Current: Max 6A (RMS) @ 100 ~ 240Vac
Inrush Current: No damage.

Specification

- **Temperature Range:** Operating: 0°C ~ +50°C; storage & shipping: -20°C ~ +80°C
- **Humidity**: 5% ~ 90% on operating, 5% ~ 90% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 2 second
- **Efficiency:** 80% minimum.
- **Rise time:** Less than 70ms
- **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):** 190x150x84mm /7.48x5.9x3.3inch

Output Characteristics

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0.5A	10A	20A	± 5%	50mV P-P
+5V	0.5A	10A	20A	± 5%	50mV P-P
+12V1	0.5A	9A	18A	± 5%	120mV P-P
+12V2	0.5A	9A	18A	± 5%	120mV P-P
+12V3	0.5A	8A	16A	± 5%	120mV P-P
-5V	0.0A	0.25A	0.5A	± 10%	200mV P-P
-12V	0.0A	0.4A	0.8A	± 10%	200mV P-P
+5Vsb	0.0A	1A	2.0A	± 5%	50mV P-P

* +3.3V and +5V total output not exceed 100W.
* Maximum combined current for the 12V outputs shall be 35A
* Total output for this subject power supply is 450W

Sparkle Power Inc.
Main Office
1000 Rock Avenue
San Jose, CA 95131
TEL: 408-519-8888
FAX: 408-519-9999
E-MAIL: 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