



**Sparkle Power Inc.**  
 A Leading Power Supply Manufacturer  
 Web site: [www.sparklepower.com](http://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 2<sup>nd</sup>, TUV 60950-1 2<sup>nd</sup>, CB 60950-1 2<sup>nd</sup>, 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.

### 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](mailto: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



### 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