



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

SPR2C520 (RoHS Compliant)
520 Watts 1+1, 2U Hot-Swap Redundant
Switching Power Supply

Features

- Complied with ATX12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- 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, CCC, TUV EN60950 -1, CB report ,FCC,EMC

Input Characteristics

Input Range: 90 ~ 264Vac (RMS), Full Range Input
Frequency: 47 ~ 63Hz
Input Current: Max 8.5A (RMS) @ 110Vac, 4.0A (RMS) @ 220Vac
Inrush Current: Max 80A @ 100~240Vac Cold start

Output Characteristics

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0.5A	12A	24A	± 5%	50mV P-P
+5V	0.5A	12.5A	25A	± 5%	50mV P-P
+12V1	0.5A	7.5A	15A	± 5%	120mV P-P
+12V2	0.5A	7.5A	15A	± 5%	120mV P-P
+12V3	1.0A	7.5A	15A	± 5%	120mV P-P
-12V	0.0A	0.25A	0.5A	± 10%	120mV P-P
-5V	0.0A	0.1A	0.2A	± 10%	120mV P-P
+5Vsb	0.0A	1.0A	2.0A	± 5%	50mV P-P

*+3.3V and +5V total output not exceed 150W
 *Maximum combined current for the 12V outputs shall be 35A.
 * Total output for this subject power supply is520W

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Specification

- **Temperature Range:** Operating: 0°C ~ +50°C on full load ; storage & shipping: -40°C ~ +70°C
- **Humidity:** 5-85% on operating, 5-95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 3 second
- **Efficiency:** Min 65% @ 100% Load & 72% @ 50% load
- **Rise time:** Less than 70msec
- **Hold-up Time:** 17ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 5 ~ 400ms, 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):** 300mm*101mm*84.4mm /11.8 x 4x3.3 inch