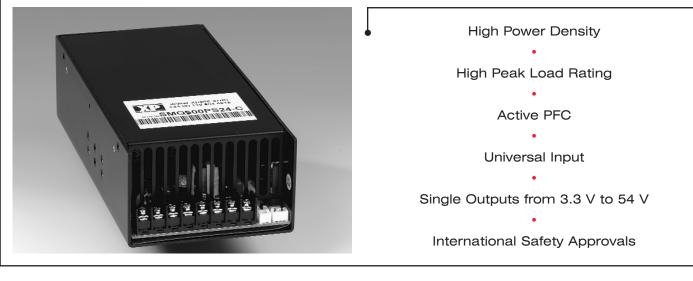
AC/DC U-Channel

500 Watts

SMQ500 Series





Specification -

Input

Input Voltage Input Frequency Power Factor Inrush Current Input Current Leakage Current Remote On/Off

Output

· · · · · · · · · · · · · · · · · · ·
Output Voltage
Output Power
Output Voltage
Adjustment
Minimum Load
Line Regulation
Load Regulation
Ripple & Noise
Transient Response
Hold up Time
Turn On Time
Overvoltage
Protection

- Overcurrent Protection Overtemperature
- Protection Remote Sense

47-63 Hz 0.99 typical 70 A Peak at 230 VAC

90-264 VAC

- 8 A at 90 VAC
- <3.5 mA
- On = TTL Logic HIGH, or open circuit Off = TTL Logic LOW or short circuit
- 3.3 VDC to 54 VDC
 - See Table
 - ±5%
- No minimum load required
- ±0.5% from low line to high line
- ±1% 50mV (Vo<=5V), 1% (Vo>=12V)
- 5% max deviation, 2.5 ms recovery time to within 1% for a 50% load change
- 20ms minimum at 120 VAC and 80% load
- 1 second max at 120 VAC
- 130% recycle input to reset
- 110% to 135% with auto recovery
- >85°C ambient with auto recovery measured internally
- Compensates for up to 0.5 V drop

General Efficiency

Power Densitv MTBF

Isolation Voltage Signals

Size

Weight

Environmental

Operating Temperature

Cooling Relative Humidity Storage Temperature

EMC & Safety

Safety Approvals

- UL1950, CSA C22.2 No 950 EN60950, CE Mark LVD
- Meets EN61000-3-2, -3 FCC Part 15 and CISPR 22 Class B conducted



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70% minimum at 230 VAC, 65% min for Vo <=5V

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- - 100,000 hrs per MIL-HDBK-217F
 - 3000 VAC Input to Output • 1500 VAC Input to Ground 500 VAC Output to Ground

5.13 W/in³

Green LED for Power On DC OK TTL HIGH within 100-500 ms LOW at least 1 ms before loss of regulation

9.17" x 4.25" x 2.50" 0.5 lbs. (1.1kg) approx

- 0°C to +70°C derate linearly from 100% load at +50°C to 50% load at +70°C
- Via internal fan
- 5% to 90%, non-condensing
- -20 °C to +85 °C
- EMI/EMC

UTPUT VOL	SMQ50				
Maximum	Output	Output	Output Current		Model
Power	Voltage	Maximum	Peak ⁽¹⁾	& Noise ⁽³⁾	Number
330 W	3.3 V	100.00 A	180.00 A	50 mV	SMQ500PS03-C
400 W	5.0 V	80.00 A	160.00 A	50 mV	SMQ500PS05-C
500 W	12.0 V	41.00 A	75.00 A	120 mV	SMQ500PS12-C
500 W	15.0 V	31.00 A	56.00 A	150 mV	SMQ500PS15-C
500 W	18.0 V	27.77 A	54.00 A	180 mV	SMQ500PS18-C
500 W	24.0 V	22.00 A	40.00 A	240 mV	SMQ500PS24-C
500 W	27.0 V	18.50 A	40.00 A	270 mV	SMQ500PS27-C
500 W	48.0 V	10.00 A	18.80 A	480 mV	SMQ500PS48-C
500 W	54.0 V	9.25 A	18.80 A	540 mV	SMQ500PS54-C

Notes

Standard models have foldback mode current protection with a high peak load capability. This peak can be taken for 1 ms only.
For optional constant current versions, add suffix 'B' to model number (current limit range is 95-105% of max output current).

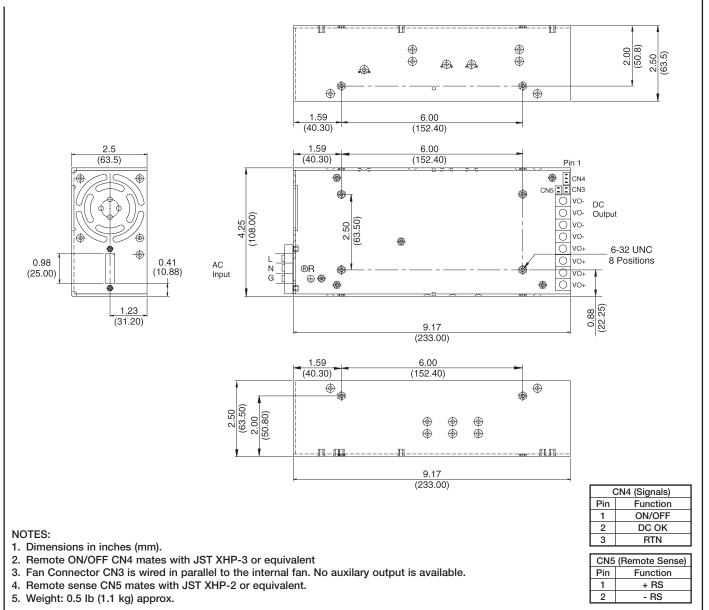
Not available on 3.3 V and 5 V models.

3. Ripple and noise measured using 0.1 μF ceramic and 22 μF electrolytic capacitor, 20 MHz bandwidth.

4. Part numbers in bold are stocking models. Others are build to order.

5. Other output voltages are available, contact factory for details.

Mechanical Details







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