

- **COMPACT DESKTOP POWER SUPPLY**
- **LOW COST**
- **UNIVERSAL INPUT**

**15 WATT**

**SWITCHING POWER SUPPLY**



**DESCRIPTION**

The SWI 15 Series of external power supplies provide up to 15 Watts of continuous power in a 94V-0 polycarbonate case. Units are small and lightweight, making them a space saving alternative to larger and heavier linear units of an equivalent power rating. To satisfy worldwide requirements, the SWI Series accepts a 90-264VAC input, has an IEC-320 input receptacle along with UL, CSA, TUV safety approvals and the CE Mark.



**FEATURES**

- CE mark
- UL, CSA and TUV approved
- Small size-only 3.30" x 1.97" x 2.20"
- Universal input range of 90 to 264 VAC
- Class II construction
- Overvoltage protection/overcurrent protection
- Wall mount versions available (consult factory)

**OUTPUT VOLTAGE/CURRENT RATINGS CHART**

| Models    | Vnom  | Imin | I <sub>max</sub> | I <sub>peak</sub> * | Total Output Tolerance | OVP   | Max Output Power | Ripple and Noise | Efficiency |
|-----------|-------|------|------------------|---------------------|------------------------|-------|------------------|------------------|------------|
| SWI 15-05 | 5VDC  | 0A   | 2.4A             | 3.0A                | +/-5%                  | 7VDC  | 12.0W            | 100mV            | 70%        |
| SWI 15-06 | 6VDC  | 0A   | 2.0A             | 2.5A                | +/-5%                  | 8VDC  | 12.0W            | 100mV            | 70%        |
| SWI 15-09 | 9VDC  | 0A   | 1.5A             | 2.0A                | +/-5%                  | 12VDC | 13.5W            | 100mV            | 70%        |
| SWI 15-12 | 12VDC | 0A   | 1.2A             | 1.5A                | +/-5%                  | 14VDC | 14.4W            | 150mV            | 75%        |
| SWI 15-15 | 15VDC | 0A   | 1.0A             | 1.3A                | +/-5%                  | 18VDC | 15.0W            | 150mV            | 75%        |
| SWI 15-18 | 18VDC | 0A   | 0.8A             | 1.0A                | +/-5%                  | 24VDC | 14.4W            | 150mV            | 75%        |
| SWI 15-24 | 24VDC | 0A   | 0.6A             | 0.75A               | +/-5%                  | 28VDC | 14.4W            | 150mV            | 75%        |

\* Peak output current with 95% maximum duty cycle.

## GENERAL SPECIFICATIONS

All specifications are typical at nominal line, full load, and 25°C.

|                        |   |
|------------------------|---|
| Efficiency:            | See Ratings Chart   |
| Hold-up time:          | 10 msec at 115 VAC  |
| Line regulation:       | ±1% maximum   |
| Inrush current:        | 30 amps @110 VAC  |
| Withstand voltage:     | 3000 VAC from input to output<br>1500 VAC from input to ground                              |
| Insulation resistance: | 10 Mohm minimum from output to ground   |
| Operating temperature: | 0°C to +50°C*   |
| Storage temperature:   | -10°C to +70°C  |
| MTBF:                  | 50,000 hours minimum at full load at 25°C ambient   |
| EMI requirements:      | Meets conduction and radiated limits of:<br>a) FCC Part 15 J Class B<br>b) CISPR 22 Class B |
| Safety requirements:   | Approved to:<br>a) UL 1310<br>b) CSA C22.2 No. 22.3<br>c) EN60950 per TUV                   |

## INPUT SPECIFICATIONS

|                  |                        |
|------------------|------------------------|
| Input voltage:   | 90 to 264 VAC          |
| Input frequency: | 47 to 63 Hz            |
| Input current:   | 0.3A (rms) for 110 VAC |

## OUTPUT SPECIFICATIONS

|                          |  |
|--------------------------|--|
| Output voltage:          | See Rating Chart   |
| Output current:          | See Rating Chart   |
| Output power range:      | 0 to 15 Watts  |
| Ripple and noise:        | See Rating Chart   |
| Overvoltage protection:  | See Rating Chart   |
| Overcurrent protection:  | All outputs protected to short circuit conditions (auto recovery)  |
| Temperature coefficient: | All outputs ±0.04%/°C maximum  |
| Transient response:      | Maximum excursion of 4% on all models, recovering to 1% of final value within 200µs after a step load change of 50% to 100% of rated load. |

\* Derate from 100% load at 40°C to 66% load at 50°C.

## MECHANICAL SPECIFICATIONS

### NOTE:

1. Dimensions shown in inches.
2. Weight: 8 ounces approximate.
3. Output connector is 5.5mm outer diameter barrel. Inner diameter is 2.5mm with center positive (+)/outer shell negative (-) polarity.
4. Output cable length is 72.0".
5. Contact factory for optional connectors.
6. Wall mount versions available (consult factory).

