

- **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 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: a) FCC Part 15 J Class B b) CISPR 22 Class B
Safety requirements:	Approved to: a) UL 1310 b) CSA C22.2 No. 22.3 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 200us 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).

