# International Power Sources, Inc.

- COMPACT DESKTOP POWER SUPPLY
- LOW COST
- UNIVERSAL INPUT

## 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

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• Overvoltage protection/overcurrent protection

#### Wall mount versions available (consult factory)

#### **OUTPUT VOLTAGE/CURRENT RATINGS CHART**

Models	Vnom	Imin	Imax	Ipeak*	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:	$0^{\circ}$ C to $+50^{\circ}$ C*
Storage temperature:	$-10^{\circ}$ C to $+70^{\circ}$ 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**

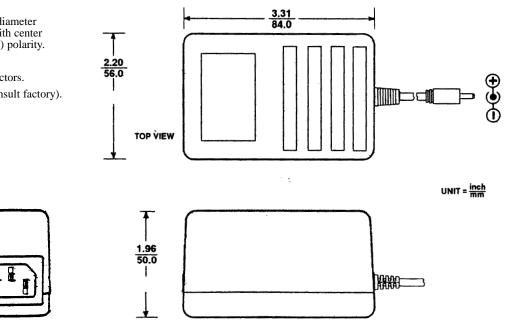
Output voltage:	See Rating Chart
Output current:	See Rating Chart
Output power range:	0 to 15 Watts
Ripple and noise:	See Rating Chart
Overvoltage protection:	See Rating Chart
Overcurrent protection:	All outputs protected to short
	circuit conditions (auto recovery)
Temperature coefficient:	All outputs ±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.
- 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).





Your Source of Power ...

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