

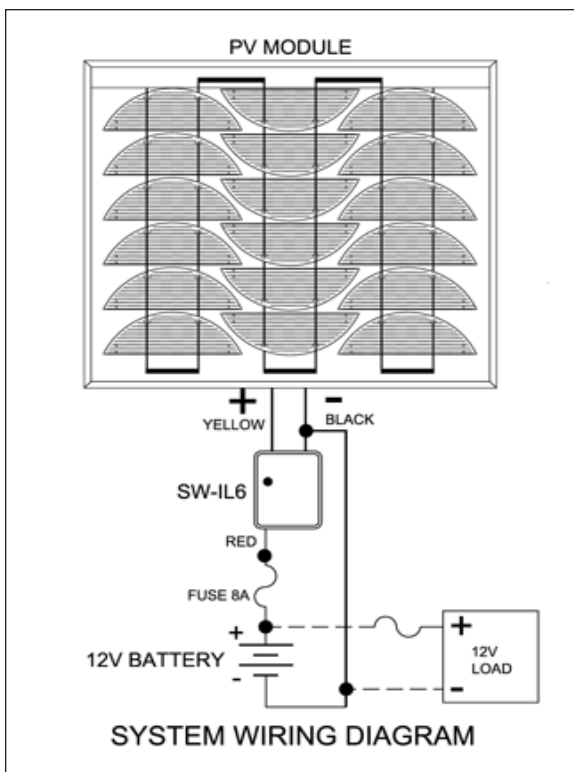
# SunWize® SW-IL6 Charge Regulator



The SW-IL6 is a compact battery charge regulator designed to fit into the junction box of most solar modules. The SW-IL6 is used for 12 volt systems rated up to 90 watts and features pulse-width modulation (PWM), the most effective method for battery charging. The waterproof circuitry is encapsulated with polyurethane in a black ABS plastic shell. The SW-IL6 includes an inline fuse holder and 5 inch lead wires. An adhesive strip is provided for mounting the regulator in the module junction box or on the battery.

## How It Works

The constant voltage battery charge set point is fixed at 14.20 volts, ideal for sealed batteries and appropriate for most other battery types. Charge current is gradually tapered until the set point is reached, thereafter maintaining a trickle charge to the battery.



## Features

- Transient Surge Protection • Multi-function LED Indicator
- Internal Reverse Polarity Protection • One-year Warranty
- Temperature Compensation • Low Noise • Parallel operation
- FM approved for Nonincendive Class 1, Division 2, Groups A, B, C, and D hazardous (classified) locations

## OUTPUT CABLE LENGTH & SIZING CHART

PV Module	20 Ft.	15 Ft.	10 Ft.
5W	#14	—	—
10W	#12	—	—
20W– 40W	#10	—	—
50W – 60W	—	#10	—
85W – 90W	—	—	#10

**Installation Note:** For distances greater than 20 feet from the PV module to the battery, install the regulator on the battery.

SPECIFICATIONS	
Voltage Regulation	14.2 VDC $\pm$ 0.10V
Rated Current	6.0 A
Charge Algorithm	PWM
Dimensions	1.25" x 1.5" x .40"
Weight	2.0 oz.
Operating Temperature	-35°C to +75°C (-31°F to +167°F)
Self Consumption	5.0 mA

