



S2-LC-6 Load Controller

Sensible Solar
XXXX XXXXXX
Palmdale, CA ZZZZZ

Description

The model S2-LC-5 Load Controller is an intelligent microprocessor driven sensor which is used to precisely control lights and other loads in a solar power system powered by Sensible Solar products. This device controls the load by switching the ground connection on and off. NOTE: This product is used to control loads of up to 6A (72W). **Loads greater than 6A may damage the product.**

Light Sensor

The S2-LC-5 is intended to control operation from dawn-to-dusk. It uses a sensitive light sensor to determine the proper threshold to detect when the load should turn on at night. When the light level falls to less than approximately 1 lux the load will turn on. This light level threshold is about 1/5 of the recommended luminance level of a typical office. To prevent the load from turning off inadvertently from passing cars or other spurious light sources there is a delay of 10 seconds so the light level must be above the threshold continuously for 10 seconds before the load turns off.

Battery Protection Shutoff

The S2-LC-5 is intended to control operation of the load in a Solar powered system. The energy in a solar system is stored in a battery. This product has a feature to protect the battery from damage due to over-depletion if for any reason the solar power is not sufficient. This product will turn off the load if the battery voltage falls to 10.9V. The load will be turned back on when the battery voltage rises to 11.7V or more. This change in threshold voltage (called Hysteresis) is intended to allow the battery to recover a minimal amount of energy before being depleted again.

Mounting

The light sensor is panel mounted, drill with a 19/64" drill. An O-ring in the lens will form a watertight seal when tightened. Peel off the protective backing to adhere the product to any smooth surface.

