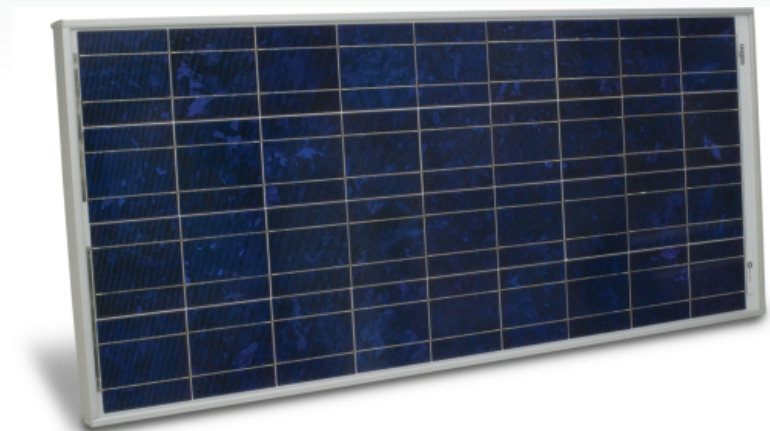




SP50-L 50 W Solar Panel



Powers Remote Systems

Allows siting far from ac sources

Overview

The SP50-L 50 W solar panel is a photovoltaic power source capable of recharging batteries. It is used for our CS110 Electric Field Meter or other systems that require 50 W solar panels.

The SP50 allows unattended operation of systems in remote locations, far from ac electrical sources.

This solar panel needs to be used with either a 18529 Morningstar SunSaver, CH200, or CH150 regulator.

Detailed Description

The SP50 includes the 31107 Extended Mounting Kit for attaching the solar panel to a Campbell Scientific tripod or tower. The 31107 positions the solar panel approximately 25 cm (10 in.) from the tripod or tower, which reduces shadows from other components and guy wires. The zenith angle indicator and the slotted supports simplify installation. The 31107 began shipping with the solar panel in October 2014. This kit may be purchased separately to retrofit existing solar panels.

to the charge inputs of the [SunSaver 18529 regulator](#) to provide a peak charge of 100 W.

Note: Regulators must be housed in an environmental enclosure.

CH150/CH200 Charge Controller

The CH150 and CH200 limit charging current to approximately 3.6 A and can precisely charge these battery families: EnerSys Genesis NP Series (BP12, BP24), EnerSys Cyclone Series, Concorde Sun Xtender Series (BP84, PS84), or a custom battery.

Regulators

One SP50 can be connected to the SOLAR charge input of the [CH150](#), [CH200](#) or [18529 SunSaver regulator](#) to provide a peak charge of 50 W. Two SP50 solar panels can be wired in parallel

18529 MorningStar SunSaver

The 18529 Morning Star SunSaver limits charging current to approximately 10 A and can charge flooded batteries or sealed rechargeable batteries such as our BP12, BP2, BP24, and BP84.

Specifications

-NOTE-

Solar panel characteristics assume 1 kW m⁻² illumination and 25°C solar panel temperature. Individual panels may vary up to 10%. The output panel voltage increases as the panel temperature decreases.

Cable Description	16 AWG, 1-twisted pair
Maximum Peak Power	50 W (100 W peak power when two SP50s are connected to one 18529 regulator)
Current at Peak	2.9 A

Voltage at Peak	17.5 V
Maximum Allowable Wind Gust Speed	<i>Note: Assumes the 31107 Extended Mounting Kit is used to mount the SP50 to an adequately anchored tripod or tower.</i> 58 m s ⁻¹ (130 mph)
On-board Regulator Included	No
Dimensions	83.9 x 53.7 x 5 cm (33 x 21.1 x 2.0 in.)
Weight	6 kg (13 lb)

For comprehensive details, visit: www.campbellsci.com/sp50-l 



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