

Powers Remote Systems

Useful at sites far from ac sources



SP10 with extended
mounting kit (option -EM)

Overview

The SP10-series 10 W solar panels are photovoltaic power sources capable of recharging batteries. They provide suffi-

cient current for many system configurations at most tropical to temperate latitudes.

Models

Unregulated Solar Panel

The SP10 unregulated solar panel recharges the sealed rechargeable battery of a BP7, PS150, PS200, BP12 (requires CH150 or CH200), BP24 (requires CH150 or CH200), or CR3000. This solar panel is intended for the type of batteries used in Campbell Scientific power supplies. Refer to the specifications for an in-depth list of compatible batteries.

Regulated Solar Panel

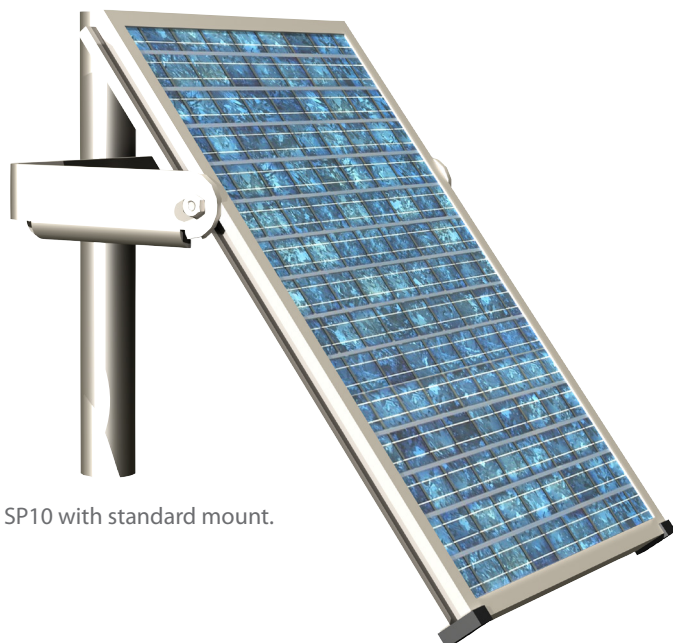
The SP10R is used to recharge user-supplied, 12 Vdc flooded batteries such as deep-cycle marine or RV batteries. This solar panel includes an onboard regulator that allows it to directly connect to the battery.

Mounting Options

The standard mounting kit (option -SM) consists of one #17492 U-bolt and matching nuts. The U-bolt has a 5.398 cm (2.125 in) space between the U-bolt legs. This hardware allows the solar panel to be mounted to a 0.75 in. to 1.5 in. IPS pipe [25.4 to 50.8 cm (1 to 2 in) OD].

The extended mounting kit (option -EM) 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.





SP10 with standard mount.

Ordering Information

Solar Panels

Must choose a cable termination option and a mounting option.

SP10 10 W, Unregulated Solar Panel with 6.1 m (20 ft) cable.

SP10R-L 10 W, Regulated Solar Panel with user-specified cable length. Enter the length, in feet, after the -L.

Cable Termination Option (choose one)

- PT** Cable terminates in stripped and tinned leads for connection to the power supply.
- PW** Cable terminates in a connector that attaches to a prewired enclosure.
- C** SP10 cable terminates in a connector that attaches to an ET station or the CS110 Electric Field Meter. This option is not available for the SP10R Regulated Solar Panel.

Mounting Option (choose one)

- SM** Standard Mounting Kit
- EM** Extended Mounting Kit.

Specifications^a

- › Maximum Power: 10 W
- › Voltage at Peak: 16.8 V
- › Current at Peak: 0.59 A
- › Continuous Current Drain (SP10R only): 2 mA
- › Maximum Allowable Wind Gust Speed^b:

Model	Standard Mount (-SM)	Extended Mount (-EM)
SP10	31 m/s (70 mph)	58 m/s (130 mph)
SP10R	58 m/s (130 mph)	58 m/s (130 mph)

- › Cable Description: 20 AWG, 1-twisted pair
- › Dimensions: 41.9 x 26.9 x 2.3 cm (16.5 x 10.6 x 0.9 in)

- › Weight

SP10: 2.1 kg (4.6 lb)

SP10R 3.0 kg (6.6 lb)

Compatible Batteries^c

- › SP10: compatible battery families include EnerSys Genesis NP series (includes our PS200, BP12, and BP24), EnerSys Cyclone series, Concorde Sun Xtender series (includes our BP84) and a custom battery. These batteries are typically referred to as valve-regulated lead-acid (VRLA), sealed lead-acid (SLA), gel cell, maintenance free, or absorbent glass matt (AGM) batteries.
- › SP10R: user-supplied, 12 Vdc flooded batteries such as deep-cycle marine or RV batteries

^a 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.

^b The wind ratings are for solar panels with the indicated mounts and do not account for strength of tower or tripod.

^c Ensure that the solar panel you are using is intended for your type of battery. Otherwise the battery life will be shortened.