

Powers Remote Systems

Useful at sites far from ac sources



SP20 with extended
mounting kit (option -EM)

Overview

The SP20-series 20 W solar panels are photovoltaic power sources capable of recharging batteries. They are often used for system

configurations that have higher-than-average power requirements, or in higher elevation and latitude locations.

Models

Unregulated Solar Panels

The SP20 unregulated solar panel recharges the sealed rechargeable battery of a PS150, PS200, BP12 (requires CH150 or CH200), BP24 (requires CH150 or CH200), or CR3000. These solar panels are intended for 12 Vdc Gel Cell or AGM lead acid batteries and are not compatible with flooded batteries such as deep-cycle marine or RV batteries.

Regulated Solar Panels

The SP20R includes an onboard regulator that allows it to recharge user-supplied, 12 Vdc flooded batteries such as deep-cycle marine or RV batteries. It is not intended for Gel Cell or AGM lead acid batteries such as the batteries contained in our PS150, PS200, BP12, BP24, or CR3000

Mounting Hardware

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.



Ordering Information

Solar Panels

Must choose a cable termination option and a mounting option.

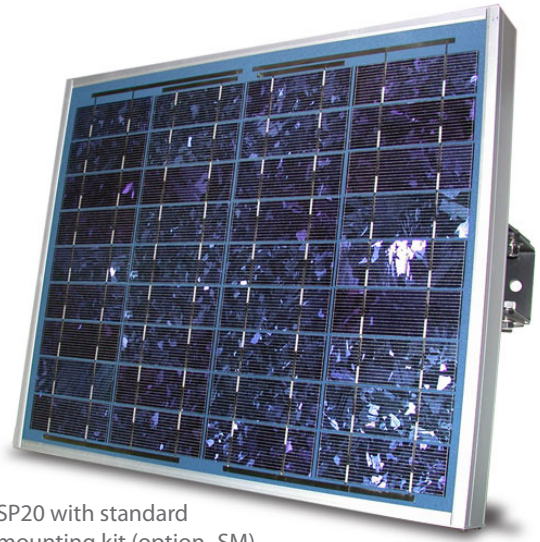
- SP20** 20 W, Unregulated Solar Panel with 4.6 m (15 ft) cable.
SP20R-L 20 W, Regulated Solar Panel with user-specified cable length.
Enter the length, in feet, after the -L.

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.

Mounting Option (choose one)

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



SP20 with standard mounting kit (option -SM).

Specifications*

- › Maximum Power: 20 W
- › Voltage at Peak: 16.8 V
- › Current at Peak: 1.19 A
- › Continuous Current Drain (SP20R only): 2 mA
- › Dimensions: 50.0 x 42.2 x 5.1 cm (19.7 x 16.6 x 2 in)
- › Weight
 - SP20: 4.4 kg (9.6 lb)
 - SP20R: 6.2 kg (13.6 lb)

*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.