



## Overview

The SP20R is 20-W photovoltaic power source capable of recharging batteries. It has an on-board voltage regulator, and a 6.1 m (20 ft) cable with stripped and tinned leads that connect directly to a user-supplied deep-cycle battery.

The SP20R is often used for system configurations that have higher-than-average power requirements, or in higher elevation and latitude locations. It allows unattended operation of systems in remote locations, far from AC electrical sources.

## Benefits and Features

- ▶ Supplies electrical power in locations where ac power is unreliable, expensive, or not available
- ▶ On-board voltage regulator allows direct connection to a user-supplied external battery

## Detailed Description

The SP20R includes mounting hardware consisting of the the pn 17492 U-bolt and Matching Nuts. The pn 17492 U-bolt provides a 2.125" (5.398 cm) space between the U-bolt legs.

This hardware allows the solar panel to be mounted to a 0.75" to 1.5" IPS pipe (1" to 2" OD).

Please note that the SP20R has a 2-mA continuous current drain (meaning that it consumes a small amount of power from the connected battery at night).

## Specifications

-NOTE-

*Solar panel characteristics assume 1 kW m<sup>-2</sup> illumination and 25°C solar panel temperature. Individual panels may vary up to 10%. The*

*output panel voltage increases as the panel temperature decreases.*

Maximum Peak Power	20 W
Current at Peak	1.19 A

Maximum Allowable Wind Gust Speed	<ul style="list-style-type: none"> <li>› 58 m s<sup>-1</sup> (130 mph) Extended mount</li> <li>› <i>Note: The wind ratings are for solar panels with the indicated mounts and do not account for strength of tower or tripod.</i></li> <li>› 44 m s<sup>-1</sup> (99 mph) Standard mount</li> </ul>
Voltage at Peak	16.8 V

Current Drain	2 mA (continuous)
Guaranteed Minimum Peak Power	18 W
On-board Regulator Included	Yes
Dimensions	50.0 x 42.2 x 5.1 cm (19.7 x 16.6 x 2 in.)
Weight	6.2 kg (13.6 lb)

For comprehensive details, visit: [www.campbellsci.com/sp20r](http://www.campbellsci.com/sp20r) 

