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

<table>
<thead>
<tr>
<th>Solar panel characteristics assume 1 kW m$^{-2}$ illumination and 25°C solar panel temperature. Individual panels may vary up to 10%. The</th>
<th>output panel voltage increases as the panel temperature decreases.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Peak Power</td>
<td>20 W</td>
</tr>
<tr>
<td>Current at Peak</td>
<td>1.19 A</td>
</tr>
</tbody>
</table>

For comprehensive details, visit: [www.campbellsci.com/sp20r](http://www.campbellsci.com/sp20r)
Maximum Allowable Wind Gust Speed

- 58 m s⁻¹ (130 mph) Extended mount
- 44 m s⁻¹ (99 mph) Standard mount

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

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)