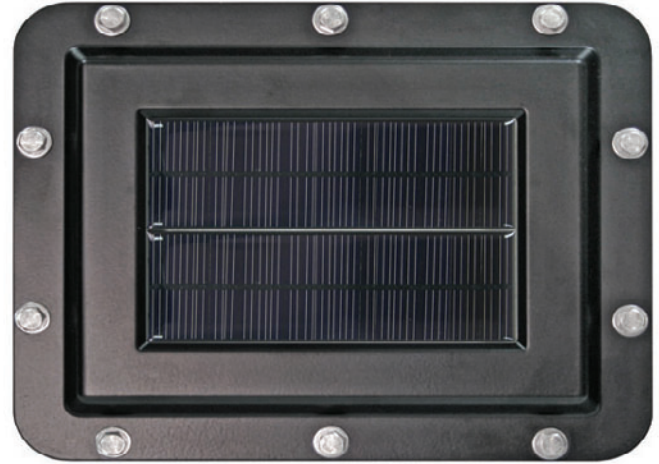




## Description

**Model SPS-01W-DV1** is specifically designed to provide continuous power to a wide range of wireless field devices that operate on less than 1 watt. The self contained, preassembled 12 VDC solar power supply is ideal for use in heavy industrial applications. The solar panel's most unique feature is that it's housed in a cast aluminum enclosure suitable for installation and use in Class 1; Division 1, Groups C and D, hazardous locations. Model SPS-01W-DV1 is stackable to create higher output arrays as needed. Additional panels are wired in parallel and increase the average amp hours per day to meet the power requirements of the specific field device.



Each solar panel is housed in a cast aluminum enclosure suitable for use in Class 1; Division 1; Groups C and D, hazardous locations.

### Estimated Panel Output

| Average Sun Hours per Day | 1    | 2    | 3    | 4    | 5    | 6    |
|---------------------------|------|------|------|------|------|------|
| Average Amp Hours per Day | .081 | .162 | .243 | .324 | .405 | .486 |

## Applications

- ▶ Oil and Gas Drilling Rigs
- ▶ Oil and Gas Production Sites
- ▶ Wastewater Treatment Plants
- ▶ Food and Beverage Processing
- ▶ Pulp and Paper Mills
- ▶ Refining and Petrochemical

## Specifications

### Mechanical Characteristics

**Dimensions**  
12"W x 9.25"H x 2"D; (304mmW x 235mmH x 51mmD)

**Weight**  
11 lbs; (5 kg)

**Output Cables**  
AWG# 18 (0.75mm)<sup>2</sup>  
2 core (recommended - not provided w/panel)

**Construction**  
Provided with 2" pipe mounting bracket

### Performance

**Rated Power** (P<sub>max</sub>)  
1.5W

**Power Tolerance**  
± 10%

**Nominal Voltage**  
12V

**Limited Warranty**<sup>1</sup>  
10 years

### Electrical Characteristics

<sup>2</sup>

**Maximum Power** (P<sub>max</sub>)<sup>3</sup> 1.5W

**Voltage at P<sub>max</sub>** (V<sub>mp</sub>) 12.V ± 5%

**Current at P<sub>max</sub>** (I<sub>mp</sub>) 0.075A

**Warranted Minimum P<sub>max</sub>** 1.5W

**Short-circuit Current** (I<sub>sc</sub>) 110mA

**Open-circuit Voltage** (V<sub>oc</sub>) 27.5V

**Electrical Classification** Class 1, Div 1; Groups C, D

## Order

PN 975-SPS01W-DV1    **Model SPS-01W-DV1** 1.5 watt solar panel and battery charger/controller circuit in Division 1 enclosure