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## Siemens SP75/SP70 Solar Panels

### Siemens Reliability

When it comes to reliable and environmentally friendly generation of electrical power from sunlight, solar modules from Siemens provide a great solution. Manufactured in compliance with the most stringent quality standards, the SP75/SP70 solar panels are designed to withstand the toughest conditions and are characterized by their long service life. These solar panels are factory configured for 12V operation but may be field configured for 6V. \* If shipping to Canada, please contact us before purchasing.



Price: \$US \*

**SP75-12V/6V - \$345.95**

[Call or email](#)

**SP70-12V/6V - \$309.95**

[Call or email](#)

### SP75/SP70

### SP75 SP70

#### Electrical Parameters<sup>1</sup>

#### 12V 6V\* 12V 6V\*

|                            |         |      |      |      |      |
|----------------------------|---------|------|------|------|------|
| Maximum power rating, Pmax | [Watts] | 75   | 75   | 70   | 70   |
| Minimum power rating, Pmin | [Watts] | 70   | 70   | 65   | 65   |
| Rated current, Imp         | [Amps]  | 4.4  | 8.8  | 4.25 | 8.5  |
| Rated voltage, Vmp         | [Volts] | 17.0 | 8.5  | 16.5 | 8.25 |
| Short circuit current, Isc | [Amps]  | 4.8  | 9.6  | 4.7  | 9.4  |
| Open circuit voltage, Voc  | [Volts] | 21.7 | 10.9 | 21.4 | 10.7 |

#### Thermal Parameters

|   |      |                               |
|---|------|-------------------------------|
| Nominal operating cell temperature <sup>2</sup> | [°C] | 45                            |
| Change of Isc with temperature                  |      | +2.06mA/°C<br>(+0.04%/K)      |
| Change of Voc with temperature                  |      | -0.077 Volts/°C<br>(-0.34%/K) |

#### Qualification Test Parameters<sup>3</sup>

|                                       |                                  |                                      |
|---------------------------------------|----------------------------------|--------------------------------------|
| Temperature cycling range             | [°C]                             | -40 to +85                           |
| Humidity, freeze, damp heat condition | [% RH]                           | 85                                   |
| Maximum system voltage                | [Volts]                          | 1000 per ISPR (EC)<br>600 per UL1703 |
| Wind loading or surface pressure      | [N/m <sup>2</sup> ]<br>(lb/sqft) | [2400]<br>(50)                       |
| Maximum distortion <sup>4</sup>       | [degrees]                        | 1.2                                  |
| Hailstone impact withstand (diameter  | [mm @ m/s]                       | 25 @ 23                              |

@ velocity) (in @ MPH) (1.0 @ 52)

**Physical Parameters**

|                           |           |             |
|---------------------------|-----------|-------------|
| Number of cells in series |           | 36          |
| Length                    | [mm] (in) | 1200 (47.3) |
| Width                     | [mm] (in) | 527 (20.8)  |
| Depth                     | [mm] (in) | 34 (1.3)    |
| Weight                    | [kg] (lb) | 7.6 (16.7)  |

**Warranty<sup>5</sup>**

|  |         |    |
|--|---------|----|
| Power >or= 90% of minimum power rating above | [Years] | 10 |
| Power >or= 80% of minimum power              | [Years] | 25 |

|          |  |
|----------|--|
| <b>1</b> | Determined under standard test conditions (STC): Irradiance = 1000w/m <sup>2</sup> cell temperature = 25 °C; solar spectral irradiance per ASTM E892 (Air Mass = 1.5).     |
| <b>2</b> | Determined under nominal operating conditions (NOC): Irradiance = 800 w/m <sup>2</sup> ambient temperature = 20 °C; wind speed = 1m/s.                                     |
| <b>3</b> | Qualification Tests performed as per CEC 503 Test Specification, to ensure durability and performance in outdoor conditions.   |
| <b>4</b> | Diagonal lifting of module corner with three corners fixed.  |
| <b>5</b> | To original consumer purchaser. See full Limited Warranty for all conditions.  |
| <b>*</b> | If you choose to use the 6V version in a high voltage array configuration, you must install custom large bypass diodes and heat sinks around every 6-volt parallel string. |

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