# Solar Cell

*with Arduino compatible barrel plug termination*

<table>
<thead>
<tr>
<th>Stock Code</th>
<th>Description</th>
<th>Ampere (mA)</th>
<th>Voltage (V)</th>
<th>Size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC10036</td>
<td>Monocrystalline Solar Cell</td>
<td>100 mA</td>
<td>3.6V</td>
<td>60 x 60 mm</td>
</tr>
<tr>
<td>SC10050</td>
<td>Monocrystalline Solar Cell</td>
<td>100 mA</td>
<td>5.0V</td>
<td>75 x 60 mm</td>
</tr>
<tr>
<td>SC10072</td>
<td>Monocrystalline Solar Cell</td>
<td>100 mA</td>
<td>7.2V</td>
<td>120 x 60 mm</td>
</tr>
<tr>
<td>SC20036</td>
<td>Monocrystalline Solar Cell</td>
<td>200 mA</td>
<td>3.6V</td>
<td>85 x 85 mm</td>
</tr>
<tr>
<td>SC20050</td>
<td>Monocrystalline Solar Cell</td>
<td>200 mA</td>
<td>5.0V</td>
<td>120 x 70 mm</td>
</tr>
<tr>
<td>SC20072</td>
<td>Monocrystalline Solar Cell</td>
<td>200 mA</td>
<td>7.2V</td>
<td>160 x 70 mm</td>
</tr>
</tbody>
</table>

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**Helpful Tips 🌟**

### Calculating Watts


### Wiring Multiple Solar Panels

#### Series Wiring

![Series Wiring Diagram](image1)

**Formula:**

\[
I_{\text{total}} = I_1 + I_2 \\
V_{\text{total}} = V_1 + V_2
\]

If your application needs a higher voltage supply, you can wire multiple solar panels in series. You can wire the positive terminal of solar panel #1 to the load, and connecting the negative terminal of solar panel #1 to the positive terminal of solar panel #2. In this wiring, the total voltage delivered to the load will be doubled and the rated current supply will remain the same.

#### Parallel Wiring

![Parallel Wiring Diagram](image2)

**Formula:**

\[
I_{\text{total}} = I_1 + I_2 \\
V_{\text{total}} = V_1 = V_2
\]

If your application needs more power, you can wire multiple solar panels in parallel. By connecting the positive terminal of solar panel #1 to the positive terminal of solar panel #2, and connecting the negative terminal of solar panel #1 to the negative terminal of solar panel #2, the maximum current that can be delivered to the load will be doubled. The rated voltage will remain the same.

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