Many people like solar energy because it is simple, clean and renewable. Especially when you are building outdoor projects, solar energy is one of the best solutions for power supply. Depending on the project you are going to build, there are many different sizes of solar panel to choose. If you are looking for a portable solar panel, why not look at this small solar panel that we are going to introduce today----0.5W Solar Panel 55x77.

0.5W Solar Panel 55x77 is monocrystalline silicon solar panel, which is the main trend in the future. Comparing to polycrystalline silicon solar panel and thin-film solar panel, monocrystalline silicon solar panel performs higher conversion rate that up to 17%. The surface is covered by fine resin which makes it waterproof, together with a very sturdy back, it is really suitable for outdoor environment.

Depending on light intensity, the typical open circuit voltage is 5V. If you take it to a summer day with bright sunshine and no cloud in the sky, the peal OC voltage can be up to 10V. Because the voltage range is relatively wide, if you are going to use boards that require narrow range of input voltage, such as Lipo Rider, to prevent any damage, please check whether the OC voltage is acceptable for the board before any connection.

To begin with, we recommend you to choose some of the solar panel compatible board produced by Seeed such as Seeeduino microcontroller series, Lipo Rider charging board series and Xbee Carrier WSN products series. Since A 2mm JST connector is attached to the panel, it is perfect to team up with the boards that recommended above. Despite all the goof features, it is really a very cheap solar panel among solar panel kits. Again, if you are looking for portable solar panels for sale, 0.5W Solar Panel 55x77 is the best choice!

**Features**
- Dimensions: 70x55x3(±0.2) mm
- Typical voltage: 5.5V
- Typical current: 100mA
- Open-circuit voltage: 8.2 V
- Maximum load voltage: 6.4V

**Documents**
Please visit our wiki page for more info about this product. It will be appreciated if you can help us improve the documents, add more demo code or tutorials. For technical support, please post your questions to our forum.

**Best-sellers**
Technical Details

<table>
<thead>
<tr>
<th>Weight</th>
<th>G.W 20g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery</td>
<td>Exclude</td>
</tr>
</tbody>
</table>

Documents

- Wiki

Questions and Answers

Have a question about this? Ask people who own it.

Does somebody know what the temperature coefficient is of this solar panel?
Jonathan Chung on Oct 19, 2016

Do you provide frame or holder for the solar panel to protect against the sharp edges?

I'm not very experienced in solar panels, but a 0.5W label does not seem accurate. 100mA shorted, yes. My measurements are closer to 6V peak voltage, open. Take note that these are at different states. I've profiled these panels several times now and I
Matt Haws on Oct 19, 2016

We'd like to know what material is used as the encapsulant for the cells so that we can review its reliability to solar exposure... or does the manufacturer have test data available?
Matt Haws on Oct 19, 2016

Do you have the exact parameters of its equivalent circuit or characteristic line graph?
MCUapps on Oct 19, 2016

Sorry, we can't get this from our supplier.
Deray Wu on Oct 20, 2016 10:44 AM

I can confirm this solar panel can deliver 105 mA in direct sunlight when shorted. But the peak voltage is significantly higher, in my case 6.8 V into 1 MOhm multimeter. So take care not to damage your electronics with it. The Seeeduino Stalker has CN3
Ian Tichacki on Oct 15, 2016
View History

Analog joystick
The never_going_to_miss g...
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Magnetic Door Switch

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