Description

This solar panel is made of single-crystal material that performs high solar energy transformation efficiency at 17%. It has a fine resin surface and sturdy back suitable for outdoor environments. A 2mm JST connector is attached to the panel, which makes it perfect to team up with most of our can-use-solar-power-supply boards, like Seeeduino microcontroller series, Lipo Rider charging boards series and XBee carrier WSN products series.

The typical open circuit voltage is around 5V, depending on light intensity. In those bright summer days with clear sky and big sun, the peak OC voltage can rush up to 10V. To prevent any damage to boards that accept a narrow range of input voltage, like Lipo Rider, it’s recommended to check whether the OC voltage is safe before any connection.

FEATURES

- Dimensions: 100x80x2.5(±0.2) mm
- Typical voltage: 5.5V
- Typical current: 170mA
- 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.

Technical Details

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<td>Battery</td>
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Reviews

⭐⭐⭐⭐⭐ Great Price good product
Works as expected
Jan 07, 2017 by TrevT  Australia

Questions and Answers

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

How long would it be out of stock?

tiago10109 on Oct 19, 2016

Is this solar panel (POW111D2P) available? There isn’t a stock level showing, does this mean that it’s been withdrawn, or on a long lead time from the manufacturer?

Tim Exley on Oct 19, 2016

your description states: "To prevent any damage to boards that accept a narrow range of input voltage, like Lipo Rider, it’s recommended to check whether the OC voltage is safe before any connection." - how to implement this using a Lipo Rider Pro with

Tom Tobback on Oct 19, 2016

You can use solar panel with Lipo rider pro, the time of peak voltage is very short, the lipo rider pro can 'absorb' it.

Jacket Chen on Oct 20, 2016 10:48 AM

Hi, I was trying to find power point on this cell with load 100 Ohm and 22 Ohm. The I-V characteristic was linear in both cases. Did I do something wrong? I've attached amp and volt meters at the same time, and I have measure results from 0.2V up to 5.

Robert Litwin on Oct 19, 2016

Hi there, I noticed that on this page the width of the panel is listed as 80mm and on the Wiki it is listed at 75mm. Can you please clarify which it is? Every mm counts when designing! Second: do you guys have an easy way to connect two or more of your

Russell on Oct 19, 2016

Hello, the right dimension is 100x80x2.5(±0.2) mm. For your second issue, we do not have such a connector to connected with more of this panels.

Deray Wu on Oct 20, 2016 10:43 AM
Hello. Can you tell me please, can I use 6 of these batts in parallel to make 1A current and use it with Liporider pro to charge 4x18650 @ 2.4Ah unprotected batts? Regards.

Deray Wu on Oct 20, 2016 10:42 AM

Hello, it can be used in parallel but we are not sure if it can charge 4x18650 @ 2.4Ah unprotected batts because we don’t do similar test before.

Frank Chambers on Oct 19, 2016

There are many types of solar cells out there ranging from single crystal through amorphous. Some work better outdoors, others, indoors. For example the amorphous cells have a low standard efficiency but are quite good compared to single crystal cells.

Agus Santoso on Oct 19, 2016

Can I put on parallel to get 340mA (maximum?) with this? Considering panel with 2W 360MA, that I guess this panel much simple to arrange on top of my box. Will arrange to shape like triangle, facing east and west. I need to charge 2 parallel Li.

Yuri Qiu on Oct 20, 2016 10:41 AM

Yes, of course you can parallel it whatever you want. Anyway, you should modified by yourself.

Steve Chang on Oct 20, 2016 10:40 AM

It depends on the load you will use. I tested using a 10k resistor with 5.1V output.

Mj Stephenson on Oct 19, 2016

Great product for the price and performs as specified, have 4 of these with a 980mAh battery and Liporider for each that I use for various products. Great buy.