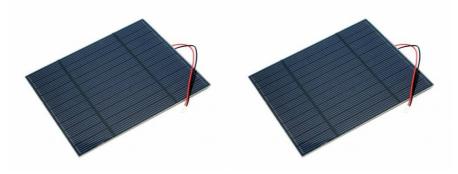
. Bazaar / Prototyping / Power Supply / 3W Solar Panel 138X160



3W Solar Panel 138X160



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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 connecter is attached to the penal, which makes it perfect to team up with most of our can-use-solar-powersupply 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.

- Dimensions: 160x138x2.5(±0.2) mm
- Typical voltage: 5.5V
- Typical current: 540mA
- · Open-circuit voltage: 8.2 V
- Maximum load voltage: 6.4V

Technical Details

Dimensions160mm x 138mm x 2.50mm

Weight G.W 104g Battery Exclude

Part List

3W Solar Panel 138X1601

ECCN/HTS

FCCN 3A991.0 HSCODE8541402000

Certification

RoHSCompliant

Documents

Seeed Forum

Learn



Reviews

Great Value in a 3W Panel I have been buying these from Adafruit and paying much more. This panel seems to work well and is keeping my project running. I have installed it permanently in our local park and will see how it holds up over time. Mounting can be an issue as there is only a thin back-board and no mounting screws so I glued a piece of angle aluminum with a 1/4 20 camera mount adapter. Then I used a trail camera tree mount to attach to the tree. So far, so good.

March 03,2017 by chip Was this review helpful?

Seeed Customer Service:

Hi there Thanks for let us know your project. How is it going now? Please let us know and help us improve it. Thanks

April 29,2018 by orders Was this review helpful? October 24.2017 by Anonymous User Was this review helpful? ember 28,2017 by Frias.Vicente Was this review helpful?

Questions and Answers



bill.yu on Aug 21,2018 11:12 AM Reply upvote (0)

what all development board this panel support?

amoon on Apr 15,2018 Reply upvote (0)

Hi there - This panel can work with the board witch support solar panel, or you can use it with our Solar Charger Shield v2.2. Then you can use the panel with any board you want. ===== ====== https://www.seeedstudio.com/Solar-Charger-Shield-v2.2-p-

Seeed Techsupport Team on Apr 16,2018 09:54 AM

0 Hi! What is the maximum load current and short circuit current?

kumarpunith84 on Dec 22,2017 Reply upvote (0) Hi there~ The short current is 0.62A and the load current is 0.545A.Regards Seeed Techsupport Team on Dec 26,2017 13:46 PM Reply upvote (0)

0 Hi! What is the operating temperature range of this panel?

dirkjan on Sep 18,2017

Hi,dirk-The operating temperature range is -20°C to 60°C.And we appreciate that you ask about this,we will add this info. to our wiki.Thanks again. Seeed Techsupport Team on Sep 20,2017 14:24 PM Reply upvote (0)

Hello, You need to install several of these solar panels in the agricultural environment. So these panels will constantly be rain and wind. Are these waterproof solar panels? If not, is there a case for this? Thank you.

juaalta on Oct 19,2016 Reply upvote (0)

Hi there, it is water proof. thanks.

bill.yu on Aug 21,2018 11:10 AM Reply upvote (0)

Hi, I purchased 2 of these panels, and a lipo rider pro. If I connect the 2 panels in parallel, do I need to add a protection diode for each panel, or do the panels have protection built in?

on Oct 19,2016 Reply upvote (0)

Hi there, it does not have the diode inside of the panel. you can add one. thanks.

bill.yu on Aug 21,2018 11:15 AM Reply upvote (0)

Hello,I need to install several of these solar panels in agricultural environment. So these panels will be constantitly at rain. Are these solar panels waterproof?

domini on Oct 19,2016 Reply upvote (0)

Yes, it is water proof, thanks,

bill.yu on Aug 21,2018 11:16 AM Reply upvote (0)

 $HeylCan \ i \ run \ the \ LiPo \ Rider \ pro \ with \ this \ solar \ module? \ i??m \ asking \ because \ the \ module \ offers \ in \ direct \ sun \ more \ than \ 5,5 \ Volt. \ Actually \ 6,4 \ Volt \ in \ March! \ I$ think it will rise up to 7 Volt or above in Summer in direct sun. I don??t want to damage

Hi there, it could be born. So you might be add some protection let the input voltage lower than 6.5 V.

Yuri Qiu on Oct 20,2016 10:41 AM Reply upvote (0)

@Yuri Qiu Hello. But what protection? How to limit current to 6.5 V. max? Thanks

Cyrille GIQUELLO on Aug 08,2017 23:18 PM Reply upvote (0)

Do you guys sell anything similar to your LiPo Rider Pro that can be used with this solar panel to charge lead acid batteries? I'm working on a project that will be using an Arduino board in a vehicle and it will be powered over the vehicles lead acid

bluegizmo1983 on Oct 19,2016 Reply upvote (0)

Could I use a simple 5V regulator on the output of the panel to make it "safe" for the LiPo Rider Pro? I am concerned that the OC voltage and even the max output voltage might damage the circuit board.

Hi Paul.Don't worry about.It can work well with lipo rider pro.

lacket Chen on Oct 20,2016 10:45 AM Reply upvote (0)

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Reply upvote (0)

3W Solar Panel 138X160

SKU 313070001 f 🔻 🙃 🤊 😇

IN STOCK

50+ Available

Description

Technical Details Learn

Ouestions and Answers