

suaoki

100W Solar Panel
User Manual

Thank you for choosing Suaoki.

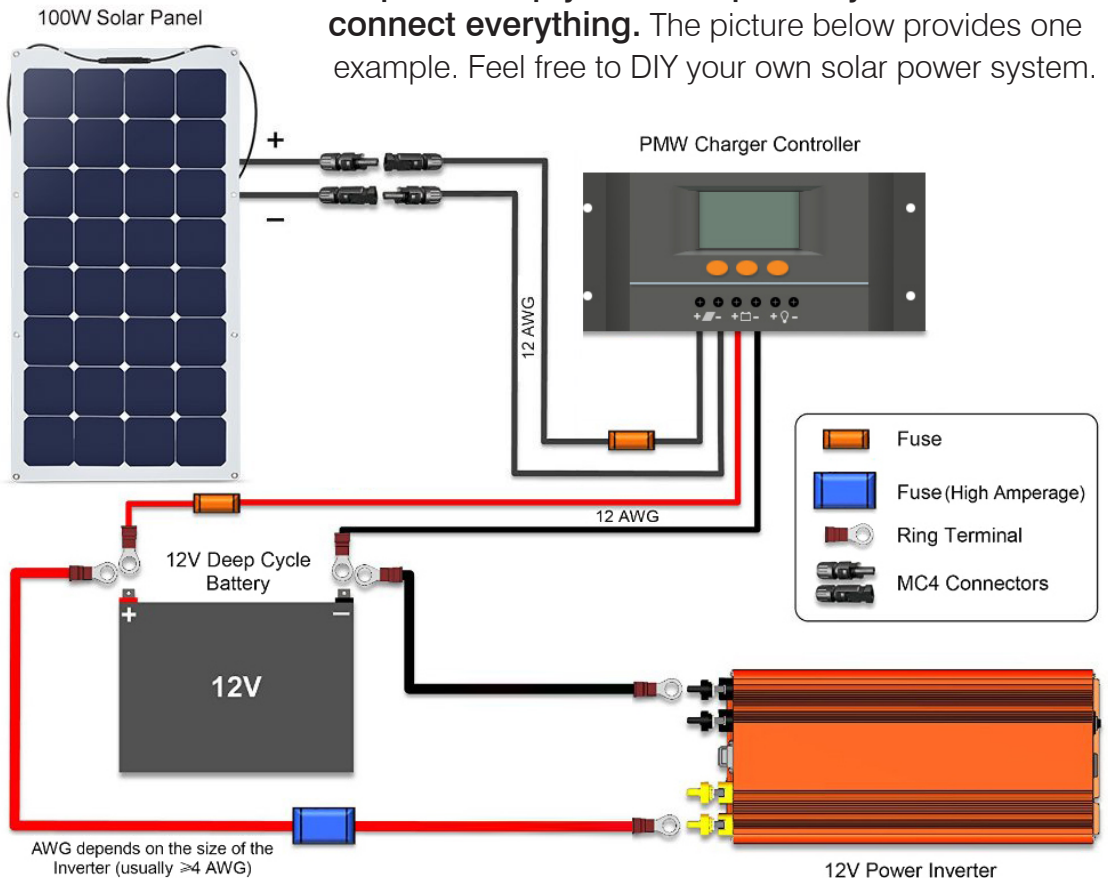
Suaoki 100W Solar Panel uses SunPower solar cell to convert solar power into electricity with high efficiency. The operation guidance aims to give you a look at how this product could be used in case you do not have a clue. More research is always recommended so that you could create your own solar power system that meet your needs perfectly.

Operation Guidance

Step 1: Select a site to mount the solar panel. It is advised to install solar panel in a location free from frequent shades and will have sunlight most of the time throughout the day.

Step 2: Mount and secure the panel. There are many ways to do this and what you really need to keep in mind is that the solar cells should not be blocked. One way is to fix the panel with hooks or rope via pre-drilled mounting holes.

Step 3: Set up your solar panel system and connect everything. The picture below provides one example. Feel free to DIY your own solar power system.



Tips:

1. It is not recommended to connect the solar panels in parallel, because it will cause over-current which may damage the product and the battery.
2. It is not recommended to use more than 4 solar panels in series connection. Once the voltage exceeds 40V, an extra controller will be needed to protect the device being charged.
3. We have tested that the panel can be curved to 30 degrees max. Please handle the solar panel with care and avoid over-bending or bump, otherwise this may result in damage to the product.
4. The plastic film is used to protect the panel, it may fall off during use, but it will not affect the solar panel.
5. Lost of efficiency (over time) does not make the solar panel a defective one. It is considered normal for the efficiency of solar panel to degrade every year. Besides, external factors such as irradiance, shading, soiling, snow and temperature could also influence the performance of panel.

Warning

1. This module produces electricity when exposed to light. Please follow all applicable electrical safety precautions.
2. Only qualified personnel should install or perform maintenance work on these modules.
3. Be aware of dangerous high DC voltage when connecting modules.
4. Do not damage or scratch the rear surface of the module.

Product Specifications

Solar Cell: Mono-crystalline

Dimensions: 1100 x 570 x 2.5mm (43.3 x 22.4 x 0.1 in)

Junction Box: Glue-filling, 0.9m (Length of main cord), 4mm² (Cable cross sectional area), MC4 Connector

Max Power: 100W(+/-5%)

Open Circuit Voltage (Voc): 21.6V

Short Circuit Current (Isc): 5.97A

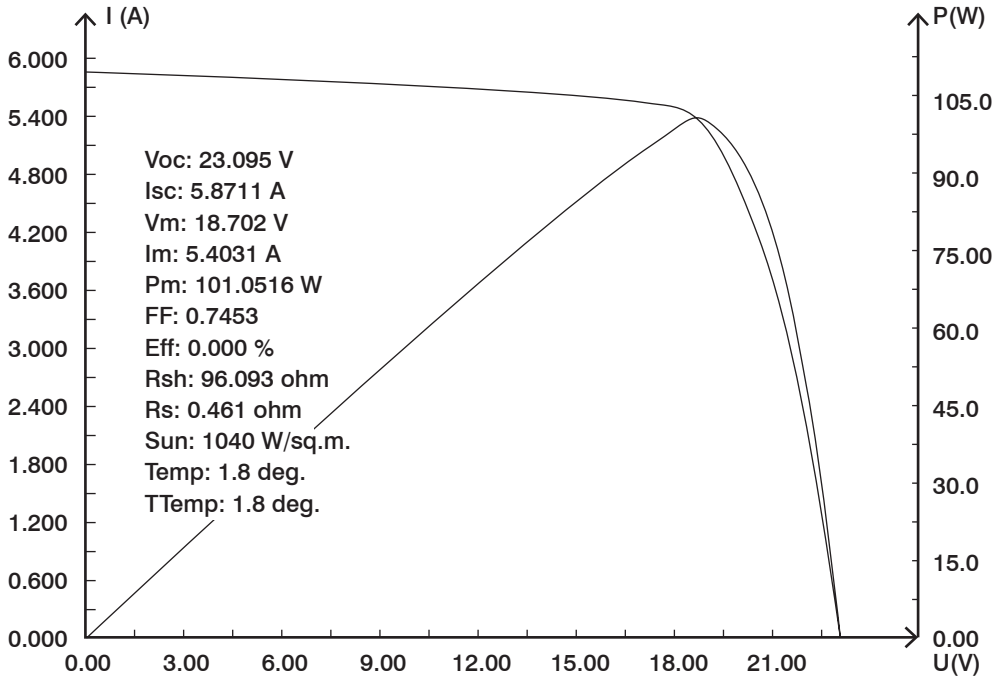
Optimum Working Voltage (Vmp): 18V

Optimum Working Current (Imp): 5.62A

Conversion Rate: Above 23%-25%

Standard Test Condition: AM1.5, 1000W/m², 25°C (77°F)
Operating Temperature: -40°C ~ +85°C (-40°F-185°F)

IV Curve



Warranty

Our company provides customers with warranty of 12 months from the date of purchase.

Contact us

For any inquiries or comments concerning our products, please send an email to support@suaoki.com, and we will respond to you as soon as possible.



MADE IN CHINA

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