

# ROCKSOLAR®

## User Manual

### 50 Watt Rigid Solar Panel

### RSG50W

Congratulations on purchasing your ticket to energy freedom. Tap into the sun's radiance and power your devices anywhere. It will supply years of maintenance-free energy. Please read these instructions thoroughly prior to use, then store in a safe place for future reference.

#### Package Contents

1*rigid Solar Panel	1*0.5m long DC5.5*2.1mm to MC4 cable
1*DC5.5/2.1 to DC3.5/1.35 connector	1*DC5.5/2.1 to DC5.5/2.5 connector
1*DC5.5/2.1 to DC8.0*5.5*0.8 connector	1*1m long MC4 to battery clips cable
1*User Manual	

#### Technical Specifications

Rated Power	50W
Convert Efficiency	≥20%
Peak Power Voltage(Vmp(V))	18V
Peak Power Current(Imp(A))	2.78A
Open circuit Voltage(Voc(V))	21.6V
short circuit Current(Isc(A))	3A
Panel type	Monocrystalline solar panel
Material	Glass surface monocrystalline silicon lamination + aluminum alloy frame
Output	MC4 DC18V 2.77A (Max)
Size	670x410x25 mm
Weight	2.8kg

#### How to charge your device:

1. Place the panels under direct sunlight.
2. Connect your 12V-22V powered device to the solar charger.
3. Keep your device cool while charging. Place it under the solar panel, or in the shade to avoid overheating.

## FAQ & Solutions

Q: What can I charge from the solar panel?

A: DC 12V~18V devices, such as power packs or power stations which can be charged by 18V solar panel.

Q: Is the solar panel waterproof?

A: It is water proof. IP rating is IP68.

### 1. If my device needs an input current of 1A, will the 2A output of the solar charger damage it?

No. The solar panel has intelligent charging, detecting the needs of your device and delivering exactly what it needs. If your phone accepts 1A, the charger will deliver 1A .

### 2.What if the solar panel is not charging my devices?

A. Check the manual of your device to ensure the input voltage 12V~18V (able to be charged by 18V solar panel).

B. Cloudy weather and indirect sunlight may cause fluctuations in the current. This in turn may hinder or prevent charging. Place the solar charger in direct sunlight or wait for the weather to clear.

C. Wipe the panels clean with a damp cloth between usage to prevent scratching.

D. Avoid exposure to fire, water and chemical liquid.

### 3. If it is partially cloudy or shady will the solar charger still work?

Yes, although the charging efficiency will be low causing prolonged charging time.

### 4. Will this panel charge a power bank?

No.This solar panel can only output 18V,not able to provide 5V to charge your USB base devices.Please make sure your devices that can be charged by a 12V/18V solar panel.

## Caution

1. Do not break, dismantle, or drop this product.
2. Dispose the charger according to local environment laws.

## Warranty

1 year from the date of purchase

## Contact us

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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation



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