

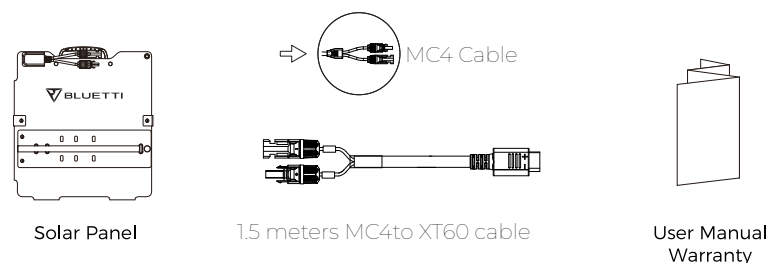
# Solar Panel

User Manual

Model number: SORA 220

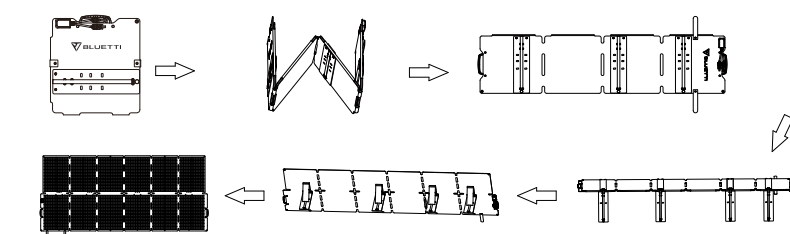


## Items included

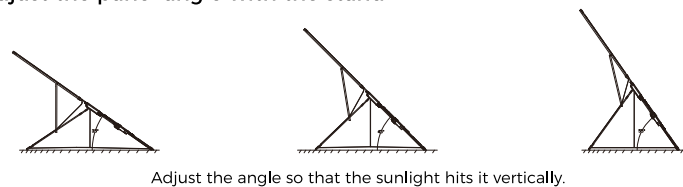


## How to use

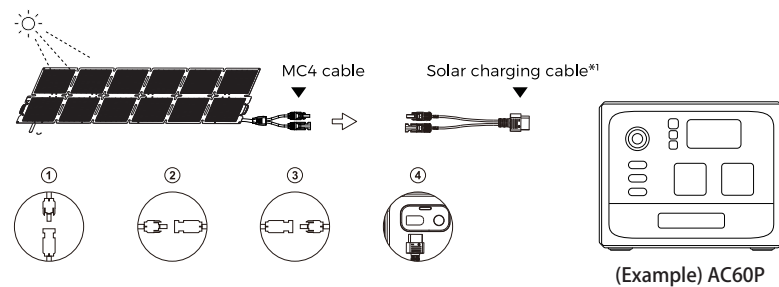
1 Spread the panel so that the panel face is facing up



2 Adjust the panel angle with the stand



3 How to connect to the portable power supply



- ① Connect the solar panel and the MC4 cable.
- ② Push the male terminal of the MC4 cable into the female terminal of the solar charging cable until it clicks.
- ③ Push the male terminal of the solar charging cable into the female terminal of the MC4 cable until it clicks.
- ④ Plug the charging terminal of the solar charging cable into the solar input (DC input) of the portable power supply.

\*1 It is included with the BLUETTI portable power supply.

Precautions during connection:

Firmly connect each terminal.

Check the charging specifications of the portable power supply to be connected and ensure that the voltage of this product is within the specified range.

## Precautions

Please carry out regular inspection and maintenance to ensure safe use for a long period of time.

Do not bend the panels, damage them with sharp objects, or subject them to strong impacts by dropping or tipping them. Such action could cause damage or a reduction in power generation. Dirty panels can cause overheating and malfunction. Check regularly for dirt and wipe it off with a soft cloth if it is dirty.



Falls and trips



Bending



Damaging



During strong wind

## What to do if power cannot be supplied or power generation is low

Symptoms	Cause	Solution
Unable to supply power	Cable is not correctly plugged in	Check if the cable is correctly plugged in.
	Not exposed to sunlight	Install it in a place where it is exposed to sunlight.
Low power generation	It's not sunny	Even a few clouds can significantly reduce power generation. If necessary, check on a sunny day.
	Installation angle is misaligned	Adjust the angle of the panel with the stand and install it so that sunlight hits it at 90 degrees (right angle).
	Shadow is present	Install the panel so that sunlight hits it evenly across its entire surface. Even partial shadows reduce power generation.
	Dirty panel	Dirty panels can lead to lower power generation. Wipe off any dirt with a soft cloth before use.
Panel temperature is high	Temporarily discontinue use and allow the panel to cool down before using it again.	

## Q&A

Q. Can this be used even if it rains?

A. This product is IP67 waterproof, so it can be used as is in light rain. However, due to insufficient sunlight during rainy and cloudy weather, the amount of power generated may be reduced or power generation may not be possible. In addition, the connection terminals are not suitable for use when wet. If it rains, discontinue use, wipe moisture thoroughly and dry before storing.

Q. Can I use this with a portable power supply other than that of BLUETTI?

A. Yes. However, please make sure that the input voltage and connector shape of the portable power supply you are using conform to the specifications of this product.

## Product specifications

SORA 220		
Max output	220W	
Panel type	Monocrystalline silicon panel	
Conversion efficiency	Max 25%	
Output voltage	Max 21.6V	
Output current	Max 10.2A	
Open circuit voltage (Voc)	Max 25.9V	
Short circuit current (Isc)	11A	
Operating temperature	-13-149° F/-25-65° C	
Recommended operating temperature	77° F/25°C	
Number of panels	12 panels	
Weight (main unit only)	7.9lbs/5.9kg	
Size	When unfolded (excluding protrusions)	67.83*32.99*0.11in/1723*838*3mm
	When stored (excluding protrusions)	16.34*11.89*3.43in/415*302*87mm
Warranty period	12 months	

