

# Solar Panel

## User Guide

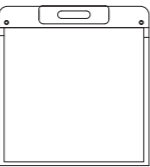
Model: PV220

Contact Us:  
www.bluettipower.com  
service@bluettipower.com

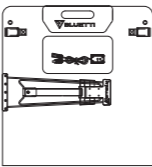


### User Guide

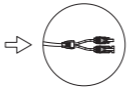
#### What is in the box



Solar Panel



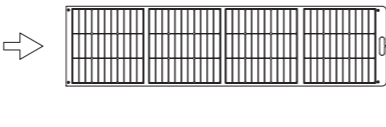
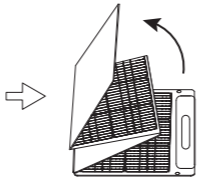
MC4 Cable



User Manual & Warranty Card

#### How to use

##### 1 Unfold

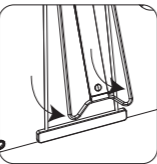


##### 2 Adjust the kickstand

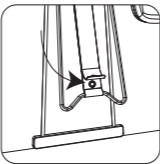


##### 3 How to use the kickstand

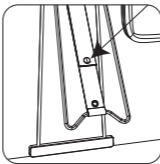
Open the kickstand, adjust the angle, stabilize the panel, fold the kickstand.



Pull out

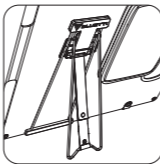


Unbuckle

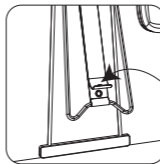


Buckle up

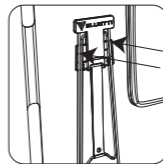
### User Guide



Fix

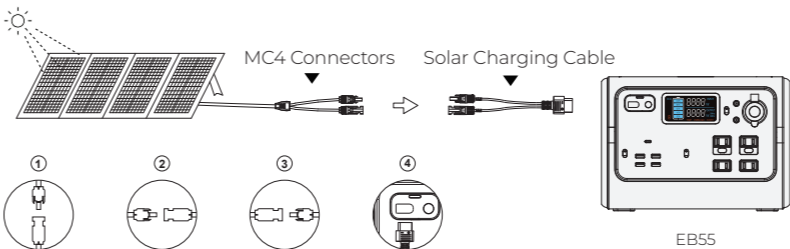


Buckle up



Press to fix

#### 4 Connect to power station



#### Note:

Use ONLY ONE PV220 solar panel with EB55,EB70.  
Whether connected in series or parallel, make sure the total voltage of solar panels is under the power station's input voltage limit.

#### Attention

Regular inspection and maintenance are required to prolong the lifespan of solar panels.



No fall



No soak



No bend



No shading



No scratch

#### Warning:

Do not use solar panels in extreme weather conditions like thunderstorms, floods, typhoons, etc.  
Always use solar panels within the specified temperature range (14-149°F/-10-65°C).

### User Guide

#### Technical details

PV220		
Maximum Power(Pm)		220W*
Open circuit voltage		21.6V
Short circuit current		13.5A
Cell efficiency		Up to 23.4%
Cell lamination		ETFE
Cell type		Monocrystalline silicon
Operating temperature		14-149°F/-10-65°C
General		
Weight		20.5lbs / 9.3Kg
Dimensions	Unfolded	94.2*23.8in / 2395*605mm
	Folded	23.8*25.1*1.7in / 605*638*45mm
Warranty		
12 Months		

\* STC: Irradiation 1000W/m<sup>2</sup>, cell temperature 25°C, atmospheric mass number AM 1.5, measurement tolerance ±3 % (Pm).

#### Frequently asked questions

##### Is the solar panel waterproof ?

No. The solar panel is IP65 water-resistant that provides protection against water splash. Please do not leave it in the rain or water for a long time.

##### What will affect the final conversion efficiency of solar panels ?

The actual solar panel efficiency may be affected by several factors, like weather, sun intensity, shading, panel orientation, temperature, location, dust and dirt. For example, if you live in a place without much sunlight or your panels are covered by shade, you'll get a very low output or none at all.

##### Is the BLUETTI' s solar panel compatible with the third party' s power station ?

Yes. Make sure BLUETTI solar panels' voltage is compatible with your power stations' voltage limit, while you're using the same connector. Please feel free to contact us for compatibility with other power stations.



Certificate

Inspector: \_\_\_\_\_

QC: \_\_\_\_\_

P/N:17.0303.0320-01A1

User Manual










SAFETY INSTRUCTIONS

Please observe the following instructions to ensure safety use:







- 01 DO NOT attempt to replace the internal battery with anything other than authorized replacement battery by yourself.
- 02 DO NOT operate in wet conditions, let unit dry completely before using.
- 03 Ensure proper ventilation while in use and do not obstruct fan openings on use. Inadequate ventilation may cause damage to the power station.
- 04 DO NOT stack anything on top of the power station in storage or in use, vibration and impact may lead to poor connection to hardware inside.
- 05 DO NOT insert foreign objects into outputs or ventilation holes.
- 06 DO NOT place the power station near heat sources like furnace or ambient heater too close.
- 07 The power station generates the same potentially lethal AC power as household wall outlet, please take carefully and keep children away from it.

User Manual






General Specs

 Rated power	 Typical Capacity	 Battery Type	 Net Weight	 Dimensions	 Protection LV	 Working Environment Humidity	 Discharge Temperature	 Charging Temperature
700W (1400W Surge)	537Wh	LiFe-P04	7.5kg/16.5lbs (The weight may subject to slightly change without notice)	278*200*198mm (10.94*7.87*7.79 inches)	IP21	10%-90%	-20~40℃/ -4~104℉	0~40℃/ 32~104℉

Output Specs

 AC	 USB-A x4	 USB-C x1	 Cigarette Lighter x1	 5521 x2	 Wireless Charging Pad
100-120VAC *4 (US,JP Version) 220-240VAC *2 (EU,UK,AU Version) 700W	5VDC, 3A	100W	12VDC, 10A, 120W	12VDC, 10A, 120W	5W/7.5W/10W/15W

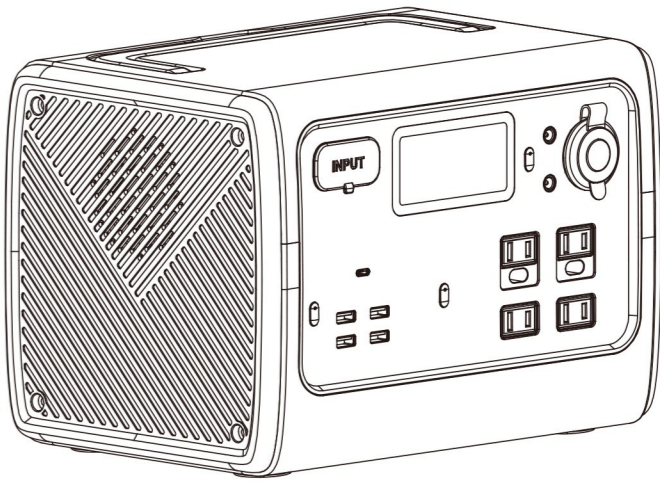
Input Specs

 Car Charging	 AC-DC Adapter Charging	 Solar Charging	 AC + PV dual Charging	 Dual AC Charging
98W@12V 196W@24V	90W 25-28VAC, 10A 200W Max	200W Max 12-28VDC, 6A	400W Max	400W Max Required extra charger

Common Loads Runtime/Charges

Smart Phone	LED Light Bulb	Television	Electronic Tools	Refrigerator	Slow Cooker
Around 40-50 Hrs 10Wh	Around 20-30 Hrs 20W	Around 5-6 Hrs 75W	Around 5-6 Hrs 80W	Around 4-5 Hrs 90W	Around 2-3 Hrs 200W

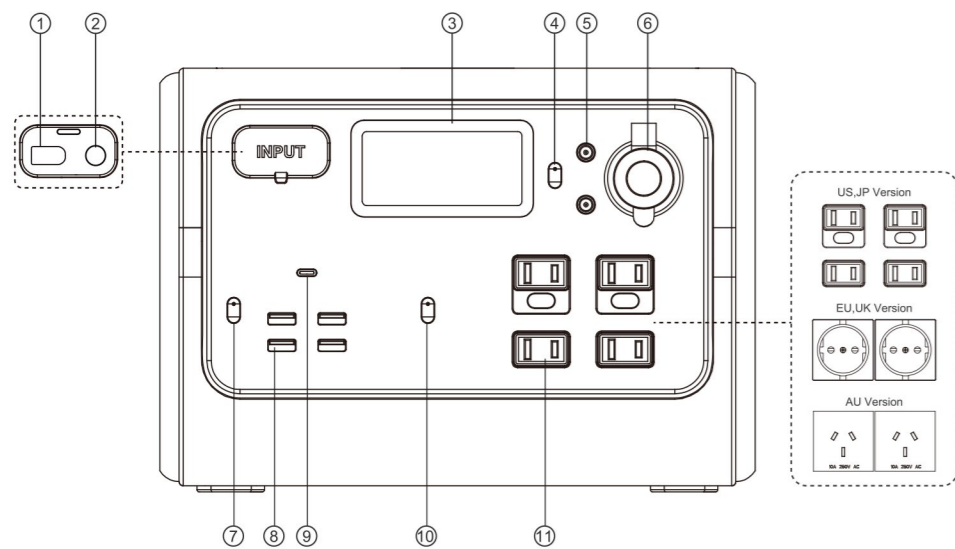
537Wh÷DOD÷η÷ (the current load power W) = available time (unit: hrs÷times)  
Note :DOD is the battery discharge depth, η is the local inverter efficiency,DOD=90%,η=90%.



537Wh Portable Power Station  
User Manual

Please read this manual before use and follow its guidance. Keep this manual for future reference.

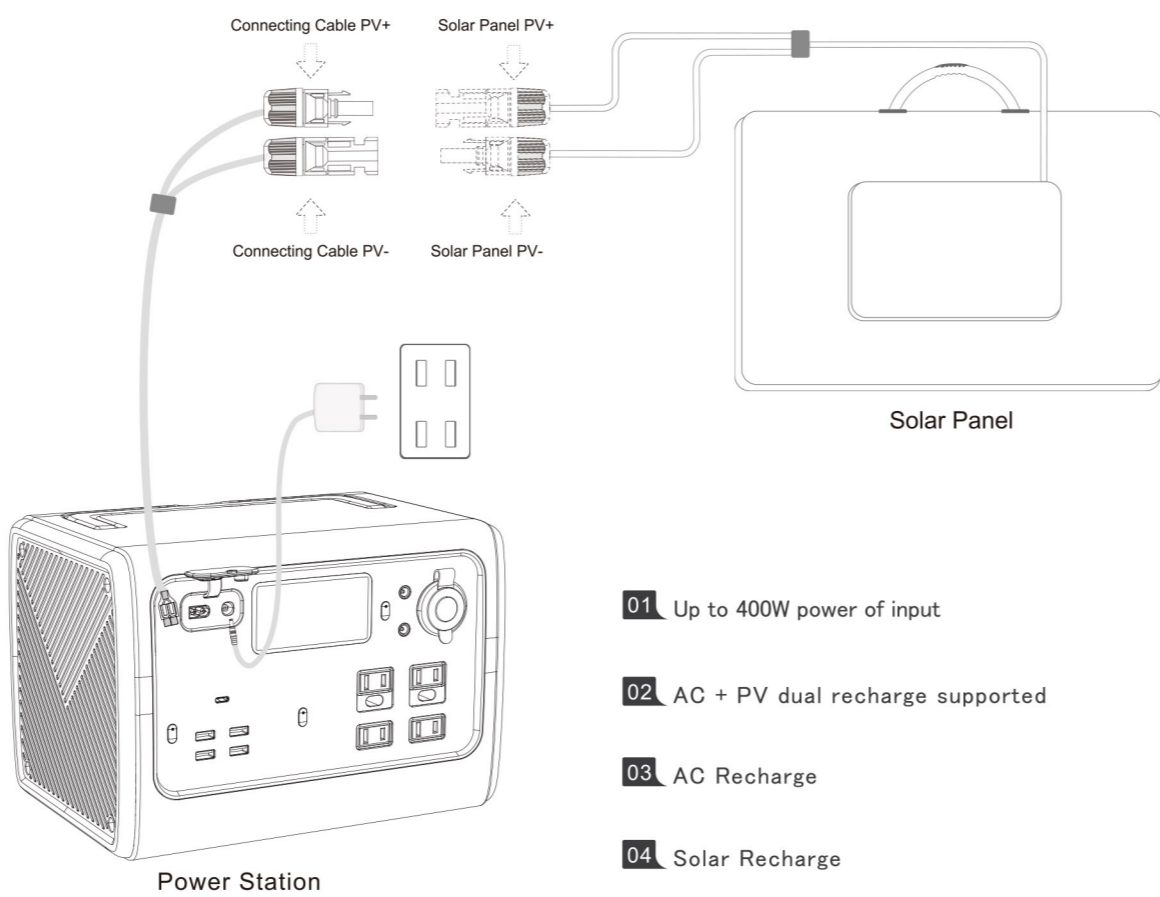
User Manual



QUICK GUIDE

- 01 DC Charging Port
- 02 Adapter Charging Port
- 03 LCD Screen
- 04 DC 12V Output Power Button
- 05 DC 5521 Output Port
- 06 Cigarette Lighter Port
- 07 DC Output/Wireless Charging Power Button
- 08 USB-A Output Port
- 09 USB-C Output Port
- 10 AC Power Button
- 11 AC Outlet

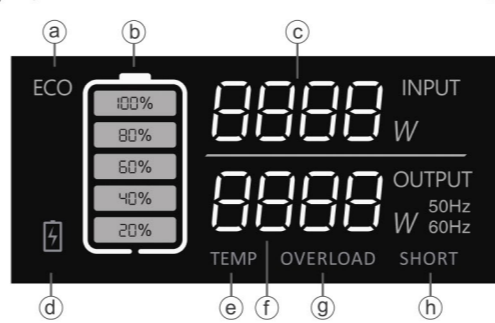
User Manual



- 01 Up to 400W power of input
- 02 AC + PV dual recharge supported
- 03 AC Recharge
- 04 Solar Recharge

User Manual

LCD SCREEN GUIDE



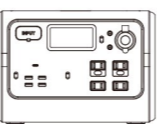
- a. ECO-Mode Icon
- b. Battery Capacity
- c. Input Power
- d. Alert Icon for low Voltage
- e. Alert Icon for Temperature Anomaly
- f. Output Power
- g. Alert Icon for Overload
- h. Alert Icon for Short Circuit

Attention:  
Screen turns off when all output turns off in 2s.  
Screen turns off while on standby.

How to operate on power station to turn ON/OFF ECO Mode\ and change the working frequency:

- 01 To Enter Settings Mode: Turn "AC" mode to the off position. Press "AC" and "DC" buttons at same time for 2 seconds to enter "Settings" mode.
- 02 To Change Frequency Setting: Once in "Settings" mode, press the "AC" button to switch frequency of the AC output ports to either 50 or 60 Hz depending on your location.
- 03 Eco Mode: Once in "Settings" mode, press the "DC" button to turn ON / OFF the ECO mode.
- 04 Exit Settings Mode: Long press the "AC" and "DC" buttons at the same time for 2 seconds to save and exit the settings mode.

What's in The Box



①

Power Station



②

AC-DC Adapter  
(Charging cable included)



③

User Manual



④

Warranty Card



⑤

Car Charging Cable  
(XT60-F)



⑥

Solar Charging Cable  
(MC4 to XT60-F)



⑦

Charging Adapter Cable  
(XT60-F)

Extra Options

User Manual

FREQUENTLY ASKED QUESTIONS

- 1 How do I clean for power station?  
A Dry, non-abrasive cloths to wipe will be perfect. The power station is a versatile tool for various adventures, simple cleaning would be required from time to time to keep the unit in a good condition.
- 2 How do I store my power station?  
A Please store the power station in a dry and cool place at the recommended temperature. Do not expose the power station to humid environment. If you want to store it for a long time, please charge your unit to 80% every 6 months to extend the lifespan of battery. Remind to turn off the unit before storing.
- 3 How do I know if my device will work with the power station?  
A Step1: You need to figure out the amount of power your devices require. Some research may be taken on internet search or the user guide of your device shall suffice.  
  
Step 2: Check the rated power of certain port on power station. For example, if the AC output port generates 700W of power and your device requires over 700W for a extended period of time, the power station will turn itself off.
- 4 How to claim the warranty?  
A Please place your after-sale requirement as the warranty card written to the platform where you order the product.