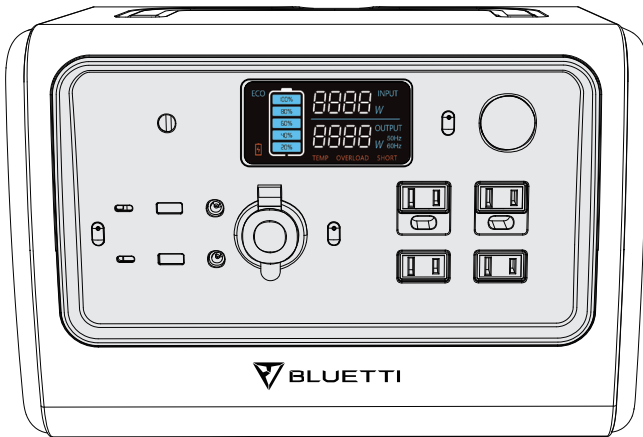


# BLUETTI EB70S

## User Manual



# Thank You

Thank you for making BLUETTI a part of your family.

From the very beginning, BLUETTI has tried to stay true to a sustainable future through green energy storage solutions for both indoor and outdoor use while delivering an exceptional eco-friendly experience for our homes and our world.

That's why BLUETTI makes its presence in 70+ countries and is trusted by millions of customers across the globe.



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# Before You Begin

The information contained herein is subject to change without notice.

For the latest version, please visit <https://www.bluettipower.com/pages/user-guides>.

- The user manual contains instructions and notes on the operation and use of this unit.
- BLUETTI recommends that you use genuine accessories from BLUETTI.
- BLUETTI shall not be responsible for any damage or expense that might result from the use of parts other than genuine parts from the BLUETTI.
- For your safety and benefit, please read carefully before using and keep it handy for future reference.

# Instructions

## General Safety

BLUETTI products are developed to be safe and reliable. Please read this guide for important safety information about your device. The guide is intended to help you be more comfortable and productive while using this device. Failure to follow these guidelines for proper set up, use, and care for your device may cause damage to this unit and injury to yourself or others.

### SAVE THESE INSTRUCTIONS!

- Always operate or store the unit in accordance with specified temperature range.
- DO NOT expose the unit to fire, liquids, sweat, dirt or other contaminants, as that may cause the battery to explode or leak flammable liquid or gas.
- DO NOT place the unit on an unstable or tilted surface.
- Make sure the place where you are using the unit is well ventilated and spacious.
- Keep away from children and pets.
- DO NOT modify, attempt to insert foreign objects into the battery, or immerse or expose it to water or other liquids. Batteries may explode if damaged.
- Battery fluid is corrosive and may be toxic. If a battery leaks, keep the leaked fluid from touching your skin, eyes, clothes, or other surfaces. Immediately flush the affected areas with water, or seek medical help.
- DO NOT ignore those warning signs on components or products made by manufacturers.
- DO NOT dismantle, cut, crush, puncture, or otherwise damage the unit in any way.
- DO NOT insert foreign objects into the fan, vents, ports, or other openings.
- NEVER use a damaged battery or component. Improper use or misuse of damaged batteries may cause damage to your device or injury to yourself as a result of battery fluid leakage, fire, overheating, or explosion.

- Use approved battery and accessories ONLY. Improper use, or use of unapproved or incompatible batteries or components may result in a risk of fire, explosion, or other hazards, and may invalidate any approval or warranty.
- Turn off the unit IMMEDIATELY in case of malfunction.
- Use dry powder fire extinguisher in case of fire.
- DO NOT attempt to modify, replace the internal battery or any other component of the unit by anyone other than qualified personnel. If necessary, take it to an authorized service center as incorrect reassembly may result in a risk of fire or electric shock.

**SAVE THESE INSTRUCTIONS!**

## **Maintenance**

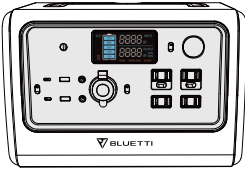
- When not using the unit for extended periods of time, power off the unit and disconnect the AC adapter from the outlet.
- Charge the unit to 80% SOC every 3-6 months for long-term storage.
- Clean the unit with a dry cloth gently and carefully.

## **Handling and Storage**

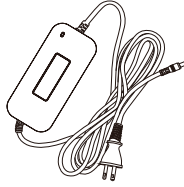
- Use mechanical assistance as needed (e.g. trolleys and adjustable height workbenches).
- DO NOT stack anything on top of the unit either in storage or in use.
- Recommended storage temperature: 32-113°F/0-45 C.

# What's In The Box

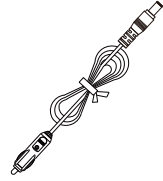
## Standard Packaging



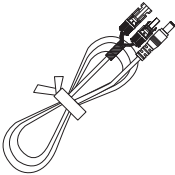
Power Station



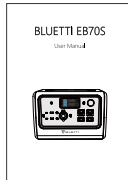
AC Adapter



Car Charging Cable



Solar Charging Cable



User Manual



Warranty Card

\* AC Adapter: 94.5in/240cm.

Car Charging Cable: 28in/72cm. Cigarette lighter port to DC7909.

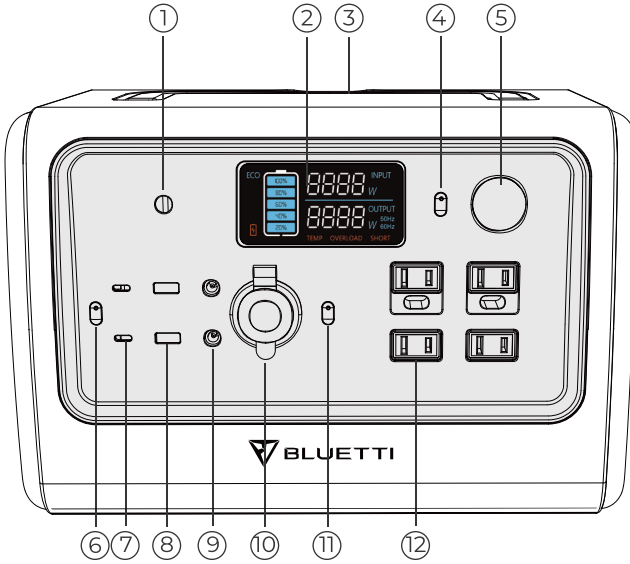
Solar Charging Cable: 59in/150cm. MC4 to DC7909.

**Note:** All measurements are for reference only.

Package details are subject to change without prior notice.

# Product Overview

## Diagram



- |                          |                            |
|--------------------------|----------------------------|
| 1. Charging Port         | 7. USB-C Port              |
| 2. LCD Screen            | 8. USB-A Port              |
| 3. Wireless Charging Pad | 9. DC5521 Port             |
| 4. LED Lamp Button       | 10. Cigarette Lighter Port |
| 5. LED Lamp              | 11. AC Power Button        |
| 6. DC Power Button       | 12. AC Outlet              |

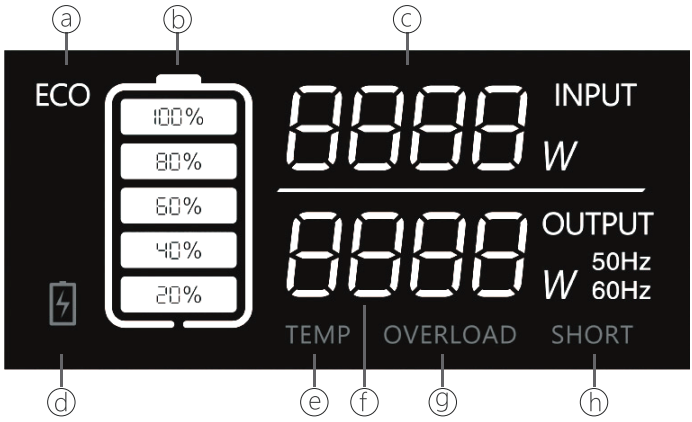


## Specifications

EB70S		
<b>General</b>		
Battery Capacity	716Wh	
Cell Type	LiFePO4	
Dimensions (L*W*H)	12.6*8.5*8.7IN/320*216*221MM	
Weight	21.4LB/9.7KG	
Discharging Temperature	-4-104°F/-20-40°C	
Charging Temperature	32-104°F/0-40°C	
Working Humidity	10-90%	
<b>AC Output</b>		
Power	120V	800W
	220-240V	1000W
Surge	1400W	
Frequency	50-60Hz	
<b>DC Output</b>		
Cigarette Lighter Port *1	Voltage	12VDC
	Current	10A
DC5521 *2	Voltage	12VDC
	Current	10A
USB-A *2	Voltage	5VDC
	Current	3A
USB-C PD3.0 *2	Power	100W Max. (5/9/12/15/20VDC, 3A; 20VDC, 5A)
Wireless Charging *1	Power	15W Max.
<b>Adapter Input</b>		
Power	200W Max.	
Voltage	12-28VDC	
Current	8A Max.	
<b>PV Input</b>		
Power	200W Max.	
Open Circuit Voltage (OCV)	12-28VDC	
Current	8A Max.	
<b>Car Charging</b>		
Voltage	12-24VDC	
Current	8A Max.	

# Operation

## LCD Screen



- a: ECO Mode
- b: Battery Capacity
- c: Input Power
- d: Low-battery Alert
- e: Temperature Anomaly Alert
- f: Output Power
- g: Overload Alert
- h: Short-circuit Alert

## Powering On/Off

**Powering on:** Press the AC/DC Power Button to start up corresponding output.

Green light(on the button)	ON
LCD Display	ON*

\* The LCD screen is on for about 30-60 seconds. Please enable at least one of these ports (AC/DC) if you want the display to stay on longer.

**Note:** For wireless charging, press the DC power button to turn it on.

**Powering off:** Press and hold power buttons to shut down corresponding output.

Green light(on the button)	OFF
LCD Display	OFF

## Mode

**Setting Mode:** When the AC output is off, press AC and DC power buttons simultaneously and the frequency indicator flashes.

**ECO Mode<sup>1</sup>:** Under 'Setting Mode', press the DC power button to turn it on/off.

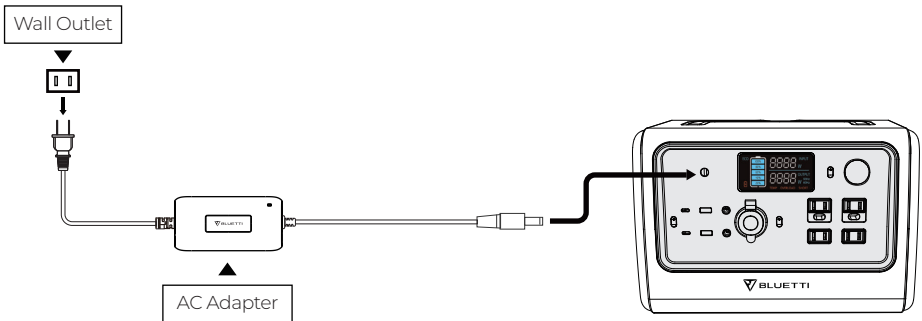
## Setting

**AC Frequency<sup>2</sup>:** Under 'Setting Mode', press the AC power button to switch.

## Charging

### AC Charging

Simply plug the EB70S into a standard wall outlet and start charging.



<sup>1</sup>When on this mode, the AC output will automatically turn off after 4-hour low ( $\leq 10W$ ) or no load to save power.

<sup>2</sup>AC Frequency: the number of alternating cycles per second in an AC sine wave. The utility frequency in US is usually 60Hz.

## PV Charging

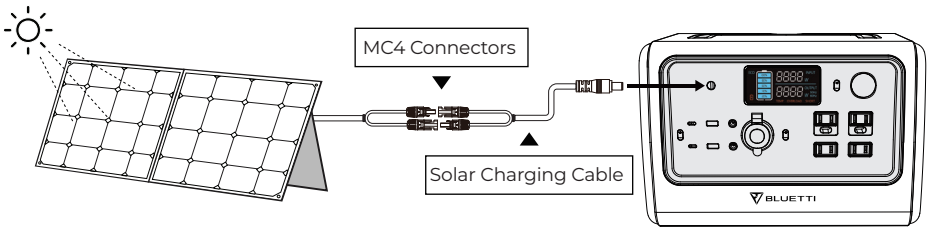
Connect the solar panels (in series or parallel) to EB70S via the solar charging cable.

**Note:** Please make sure your solar panels comply with:

OCV<sup>3</sup>: 12-28V    Input Power: 200W Max.

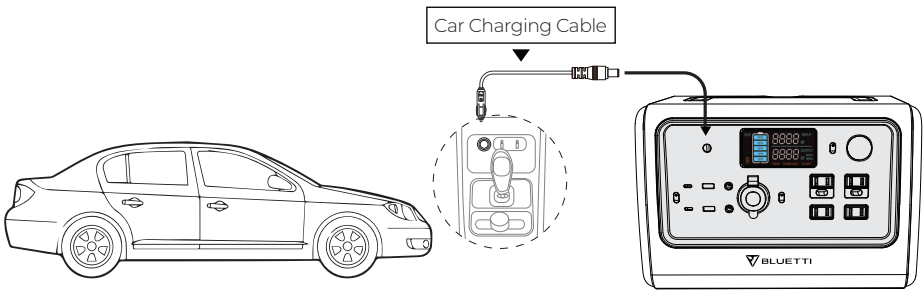
*E.g.* Use one BLUETTI PV200 solar panel to charge the unit.

BLUETTI PV200: Voc=26.1V    Vmp<sup>4</sup>=20.5V    Current=9.7A Max.



## Car Charging

Connect the EB70S directly to the vehicle plug-in cigarette lighter port via the car charging cable.

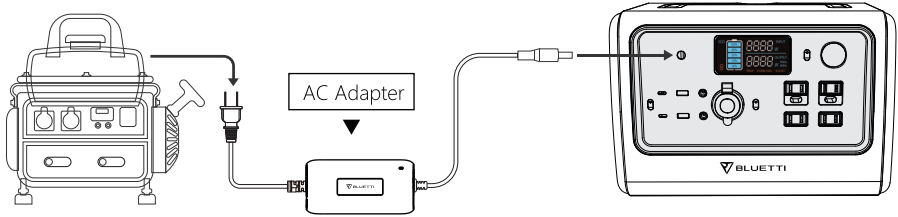


<sup>3</sup> OCV: Open circuit voltage, also for Voc. The maximum voltage that the solar panel can produce with no load on it.


<sup>4</sup> Vmp: Voltage at maximum power. The voltage available when the panel is operating at its peak performance output.

## Generator Charging


Connect the AC adapter input plug to the generator while the output plug goes to the charging port of EB70S.



## Discharging




Smart Phone  
50-60 Times  
10Wh




LED Light  
20-30 Hrs  
20W



TV  
7-8 Hrs  
75W



Power Tools  
7-8 Hrs  
80W



Refrigerator  
6-7 Hrs  
90W



Slow Cooker  
2-3 Hrs  
200W

$716\text{Wh} \times \text{DoD} \times \eta \div (\text{load power}) = \text{charging time (estimated)}$

**Note:** DoD refers to the Depth of Discharge,  $\eta$  is the local inverter efficiency. DoD=90%,  $\eta$ =90%.

DoD may vary depending on ambient-operating temperature and discharge rate.

Load power and charging time are measured in Watt and Hour.

# Appendix

## FAQs (Frequently Asked Questions)

**Q: How do I know whether my devices will work well with this product?**

A: Please evaluate the total constant load of your appliances. If it doesn't exceed the Max. output power of EB70S, you can use this power station to charge.

**Q: Can I use third-party solar panels to charge this product?**

A: Yes, you can. As long as the specs of solar panels you're using fall in below range:

OCV: 12-28V

Input Power: 200W Max.

With the same power connector (MC4 or Anderson)

DO NOT mix different types of solar panels.

**Q: Is there a button to turn on/off the wireless charging?**

A: Yes. Press the DC Power Button to enable the wireless charging.

**Q: Can it charge and discharge at the same time?**

A: Yes. It supports pass-through charging. EB70S comes with the premium LiFePO4 battery and proprietary Battery Management System to ensure that it can charge and discharge at the same time.

**Q: How can I clean this EB70S power station?**

A: Clean the EB70S with a dry cloth gently and carefully.

## Technical Support

Should you require any further assistance, please do not hesitate to contact BLUETTI service team.

P/N:17.0303.0317-06A6

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