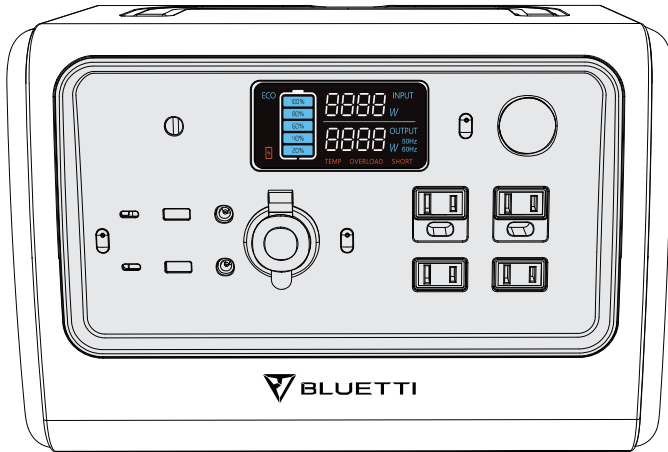


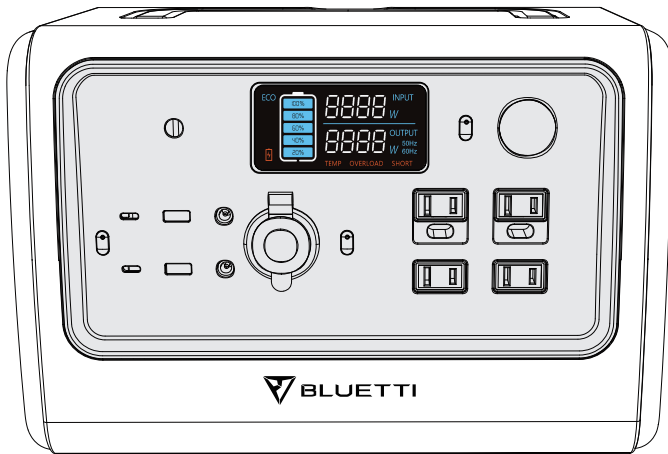


# BLUETTI



## EB70S 716Wh Portable Power Station

Please read this manual carefully before operating and keep it handy for future reference.



## User Manual

Please read this manual carefully before operating and keep it handy for future reference.

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# 1. BRIEF INTRODUCTION

The EB70S portable power station was born from ultimate innovation and mature technologies. It features the 800W/1000W power inverter and 716Wh LiFePO4 battery pack, enough to power your essentials on the road or during power outages, but it is surprisingly compact with 12.6\*8.5\*8.7inch dimension and 21.4lbs lightweight. Moreover, taking fast charging into consideration, the EB70S now holds brilliant dual super-fast 100W PD3.0 USB-C ports to get your Type-C electrical devices charged simultaneously. Besides, the EB70S also supports ECO Mode that the AC power will automatically turn off over 4 hours low( $\leq 10W$ ) or no load to save power drain.

Overall the BLUETTI EB70S is an optimal portable power station choice with a great feature set for your backup or outdoor needs.

# 2. ABBREVIATIONS

- MPPT: Maximum Power Point Tracking
- SOC: State of Charge
- AC: Alternating Current
- DC: Direct Current
- PV: Solar Panel(s) Charging (Photovoltaic)
- T200S: 200W AC Adapter
- DOD: Depth of Discharge
- ECO: A power-saving setting for the EB70S. When it is on, the AC power will automatically turn off over 4 hours low( $\leq 10W$ ) or no load to save power drain.

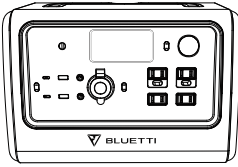
### 3. SAFETY INSTRUCTIONS

**Kindly Note:** Please read and understand all safety instructions before using the EB70S portable power station. If damage occurs due to failure to follow instructions, the warranty does not apply.

- DO keep the EB70S power station away from the fire and heat.
- DO operate the EB70S in a dry and well-ventilated place. If it gets moisturized or damp, please dry it thoroughly before using it.
- Be sure to check all materials before using the EB70S. In case of any abnormality such as breakage, crack, leakage, or AC line breakage, please stop using the equipment immediately.
- DO NOT use wet hands to touch the equipment and connector plug. It may cause electric shock or other hazards.
- DO NOT use metal to contact the AC interfaces. It may cause electric shock, high temperature, fire, and other hazards.
- DO NOT obstruct fan openings to ensure proper ventilation in use. Otherwise, permanent damage to the EB70S may occur.
- DO NOT move the EB70S in use since vibrations and sudden impacts may lead to poor connections to the hardware inside.
- Please read and fully understand the operation instructions of the electrical appliances to be connected. Failure to operate the electrical products properly may result in accidents or injuries.
- Please use the original charger and cables only designed for the EB70S. The company is not liable for the damage caused by third-party equipment, which may invalidate your warranty.
- Please use the EB70S power station carefully and keep children away from it.
- **WARNING:** In case of fire, ONLY dry powder fire extinguisher works.
- **WARNING:** DO NOT insert foreign objects into any ports of the EB70S(AC, DC, or ventilation holes). The power station generates the same potentially lethal AC power as a household wall outlet.
- **WARNING:** It is hazardous for anyone other than the authorized person to carry out any service or repair operation involving replacing the internal battery or other equipment components.

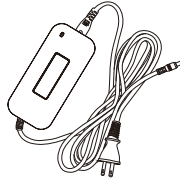
# 4. PACKAGE LIST

Please kindly check all the accessories are complete. The package list includes the BLUETTI EB70S Portable Power Station, T200S AC Adapter & Charging Cable, Car Charging Cable, PV Charging Cable, User Manual, Warranty Card, and QC certificate.



①

Power Station



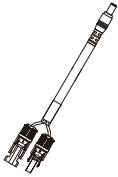
②

AC Adapter



③

Car Charging Cable



④

Solar Charging Cable



⑤

User Manual



⑥

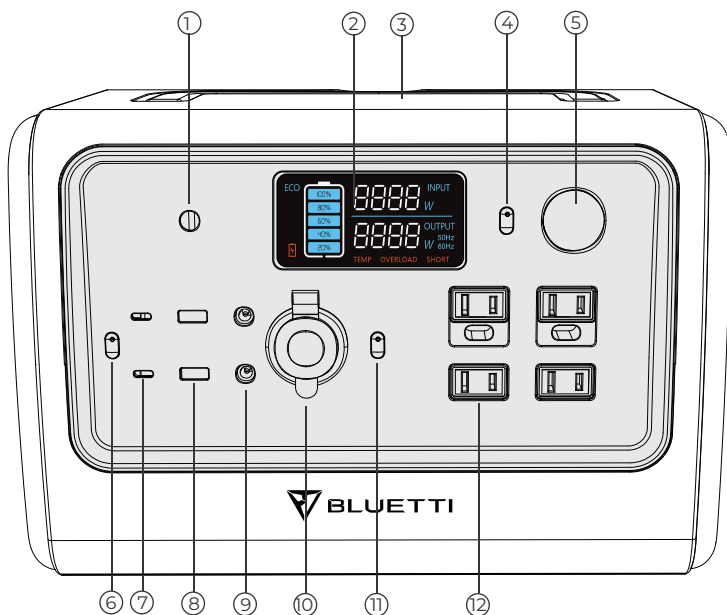
Warranty Card



⑦

Certificate of QC PASS

## 5. KEY FEATURES



### QUICK GUIDE

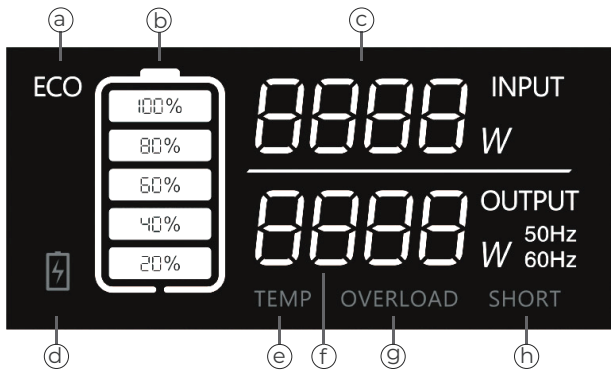
- 01 Charging Port
- 07 USB-C Port
- 02 LCD Screen
- 08 USB-A Port
- 03 Wireless Charging Pad
- 09 DC 5521 Output Port
- 04 LED Lamp Button
- 10 Cigarette Lighter Port
- 05 LED Lamp
- 11 AC Power Button
- 06 DC Power Button
- 12 AC Outlet

## 6. GETTING STARTED

The BLUETTI EB70S has separate AC and DC power buttons. Press either of them to startup or shut down the specified port area.

- (1) Turn on AC/DC: short press the AC/DC power button; both the indicator light and LCD screen will be on, and the LCD screen will be off several seconds later.
- (2) Turn off AC/DC: press and hold the AC/DC power button for several seconds, and the indicator light and the LCD screen will be off.
- (3) Setting Mode: press and hold both AC and DC power buttons at the same time to turn it on, and the frequency indicator will flash.
- (4) ECO Mode: under 'setting mode', press the DC power button to turn it on/off.
- (5) Frequency Setting: under 'setting mode', press the AC power button to switch the frequency of AC output ports to either 50HZ or 60HZ, depending on your location.

## 7. LCD SCREEN GUIDE



a. ECO-Mode Icon

d. Alert Icon for low Voltage

g. Alert Icon for Overload

b. Battery Capacity

e. Alert Icon for Temperature Anomaly

h. Alert Icon for Short Circuit

c. Input Power

f. Output Power



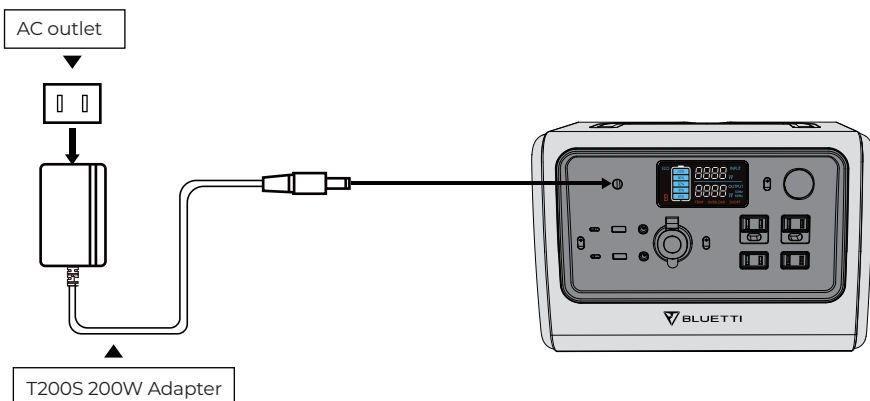
LCD Screen Status Explanation	
Normal Startup	The LCD screen turns on.
Normal Shutdown	The LCD screen turns off.
Overload	'OVERLOAD' on the LCD screen flashes.
Short Circuit	'SHORT' on the LCD screen flashes.
ECO Mode Start	'ECO' displays on the LCD screen.
ECO Mode Close	'ECO' disappears on the LCD screen.
Low Battery	The battery icon on the LCD screen flashes.
High/Low Temperature	'TEMP' on the LCD screen flashes.

## 8. CHARGING

The EB70S supports AC, Solar, Car, Generator, and Lead-acid battery five charging methods.

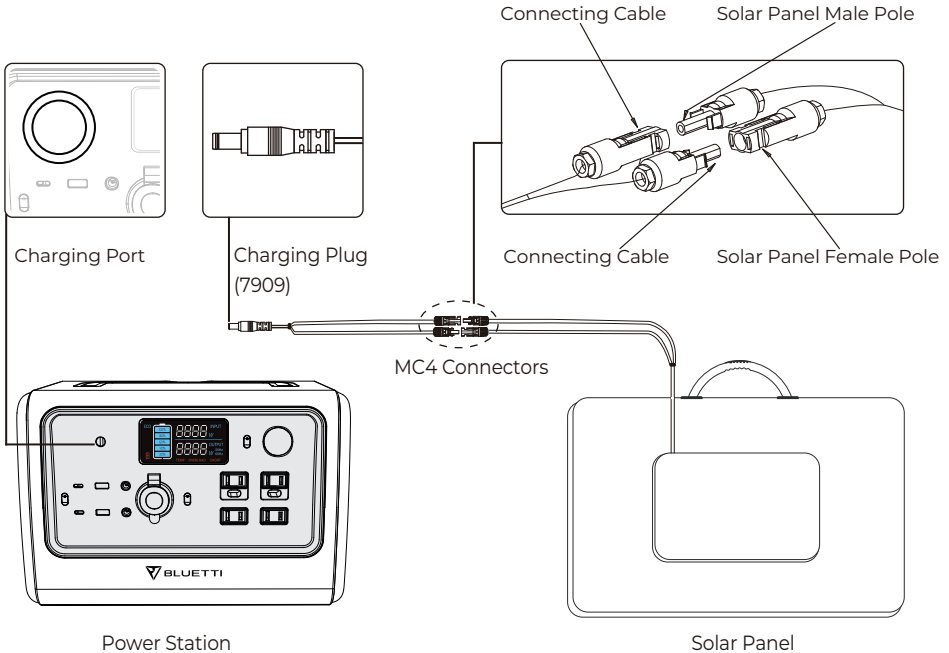
### 8.1 Charging with AC wall outlet

- Connect the adapter input plug to the wall outlet, the other end to the AC charging input port of EB70S. The equipment comes with a built-in advanced control circuit. When it is fully charged(Approx. 4-5hrs), it will stop charging automatically.



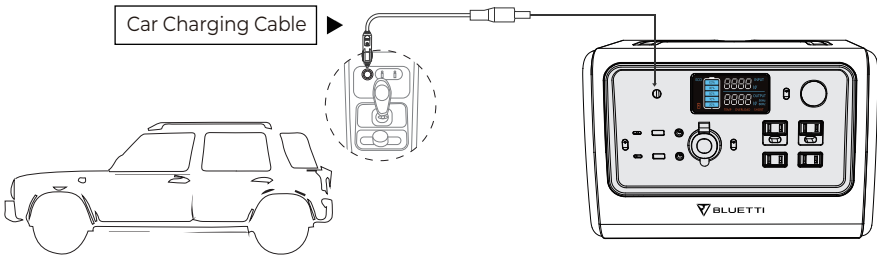
## 8.2 Charging with solar panel

- Connect the solar panels(in series or parallel) with the open-circuit voltage range: 12-28V. Then connect the solar panel to EB70S via the solar charging cable. When charging with solar panels, the max input current and power are 8A and 200W, respectively. Also, when it is fully charged(Approx. 4-5hrs), it will stop charging automatically.



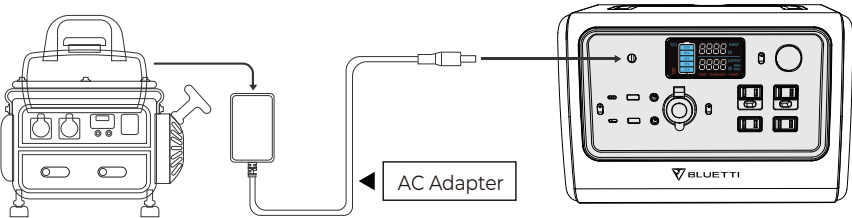
## 8.3 Charging with car

- Connect the EB70S to the vehicle 12V cigarette lighter port via the car charging cable. Again, when the equipment is fully charged(Approx. 7-8hrs), it will stop charging automatically.



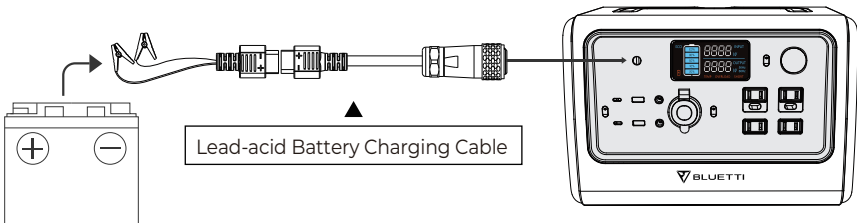
### 8.4 Charging with generator

- Connect the AC adapter input plug to the generator and the output plug to the AC charging port of EB70S. As the same again, when it is fully charged (Approx. 4-5hrs), it will stop charging automatically.



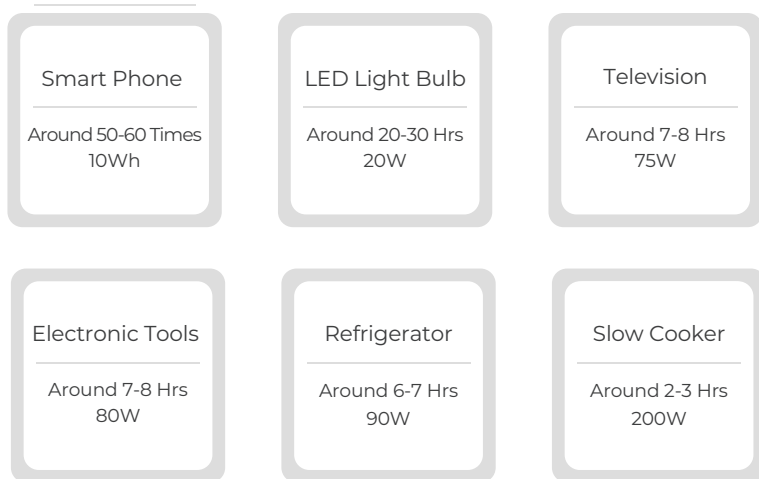
### 8.5 Charging with lead-acid battery

- Connect the EB70S with a lead-acid battery via the charging cable. Last same, when it is fully charged (Approx. 4-5hrs), it will stop charging automatically.



## 9. APPLICATION

**Kindly Note:** All the below statistics are based on the laboratories. Actual results may vary depending on environment, usage, and firmware version.



$716\text{Wh} \times \text{DOD} \times \eta \div (\text{the current load power } W) = \text{available time (unit: hrs/times)}$

**Note:** DOD indicates Depth of Discharge,  $\eta$  indicates inverter efficiency, DOD=90%,  $\eta$ =90%.

## 10. TECHNICAL SPECIFICATIONS

Model No.	BLUETTI EB70S
Battery Capacity	716Wh / 32,000mAh @22.4V
Battery Cell Type	LiFePO4 (2500+ Life Cycles)
Dimensions	12.6 x 8.5 x 8.7 in. / 320 x 216 x 221 mm
Weight	21.4 lb / 9.7 kg
Operating Temperature	32-104°F / 0-40°C
Recharging Temperature	-4°F-104°F / -20°C-40°C
Working Humidity	10-90%

AC Output* 4			
Rated Output Power	100-120V	800W	US/JP
	220-240V	1000W	EU/UK/AU
Surge	1400W		
Frequency	50-60HZ		

DC Output		
Ports	Voltage	Current
Cigarette Lighter	12V	10A
DC5521*2	12V	10A
USB-A *2	5V	3A
USB-C PD3.0 *2	100W Max (5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3A, 20V/5A)	
Wireless Charging Pad	15W Max	
<b>Kindly Note:</b> Please place your phone( if wireless charging supported) on the wireless charging pad horizontally.		

Solar Input	
Input Power	200W
Open Circuit Voltage (OCV)	12-28V
Current	8A
Estimated Time	4-5 hrs

T200S Adapter/Generator/Lead-acid Charging	
Input Power	200W Max
Voltage	12V-28V
Current	8A Max
Estimated Time	4-5 hrs

Car Charging	
Input Voltage	12V-24V
Current	8A Max
Estimated Time	12V: 7-8 hrs; 24V: 4-5 hrs
<b>Note:</b> PV Input, T200S AC Adapter/Generator/Lead-acid Charging share the same Aviation Port.	

## 11. PRODUCT GUIDELINE

- Most electrical appliances on the market apply to the specifications of the 12V/10A, cigarette lighter, USB-A, and USB-C output ports of BLUETTI EB70S. But, there are still charging of some appliances that generate an excessive instantaneous inrush current may activate the over-current protection.
- The EB70S applies to home appliances with 800W or less output power. Though the rated output power is under 800W, overload protection will still be activated if the appliance generates a massive instantaneous start-up power. Therefore, it is recommended to apply the EB70S to the electrical equipment with lower-rated power.
- If an output over-current, overload, or short circuit occurs, the EB70S will turn off the corresponding output port. Then it will automatically start again (at an interval of 20S). Suppose there is still an over-current, overload, or short circuit; the equipment will lock the output ports and then need manual troubleshooting and restart again. If the outputs repeatedly stop, turn the equipment off. Please get in touch with the seller or maintenance personnel for professional help.
- When the battery level drops to 0%, the AC and DC outputs will automatically turn off. Please check the battery level before using the AC/DC output to maintain long battery life. If the battery level drops to 20% or less, it is advised to recharge the equipment first.
- The EB70S supports pass-through charging, and please keep the equipment laid flat during use, charging, and discharging.
- **Note:** It is not suggested to apply the EB70S to charge some radios or video players.

## 12. FAQs (FREQUENTLY ASKED QUESTIONS)

**Q1:** What devices can be charged/powered by BLUETTI EB70S?

**A:** For the EB70S, the maximum output power is 800W(US/JP) or 1000W (EU/UK/AU), so please make sure the total power of your devices doesn't exceed the figures, or the inverter will shut itself down.

*Friendly Note:* For some devices with a motor/compressor built inside, the instant startup power maybe 2-4 times more than the rated power, which may exceed the upper limit of the EB70S.

**Q2:** How long will the EB70S power my device?

**A:** Working time(estimation)=716Wh×DOD×η÷ (operating power of your device)

*Kindly Note:* DOD indicates Depth of Discharge, η indicates inverter efficiency, and the unit of device operating power in Watts. DOD=90% , η=90%.

The actual working time may vary under different situations.

**Q3:** What kind of solar panel can charge this EB70S?

**A:** The solar panel must meet:

- 1) Open Circuit Voltage (OCV) between 12V-28V;
- 2) Equipped with MC4 Connector. If your panel has an Anderson connector, please purchase Anderson to MC4 cable separately.

*Friendly Note:* The actual charging time depends on the weather, solar condition, and the angle of the solar panels.

**Q4:** Can it charge and discharge simultaneously?

**A:** Yes, the EB70S supports pass-through charging. It features the premium LiFePO4 battery and the advanced Battery Management System, so please feel free to use it in a way that better suits your needs.

**Q5:** What does the ECO Mode mean, and can I turn it off?

**A:** Under ECO Mode(Default Setting), the AC power will automatically turn off over 4 hours low(≤10W) or no load to save power drain. If you would like to turn it off, please enter the 'setting mode' and switch ON/OFF. We hope this design will benefit our users, especially CPAP users.

**Q6:** How can I clean the EB70S power station?

**A:** Dry and non-abrasive cloths to wipe will be perfect. The EB70S is a versatile tool for various adventures, simple cleaning from time to time is necessary to keep the equipment in good condition.

## 13. DECLARATION

- Please note that specifications and appearance are subject to improvement without prior notice.
- The company shall not be liable for any damage caused by force majeure, such as fires, typhoons, floods, earthquakes, or the user's intentional negligence, misuse, or other abnormal conditions.
- The company shall not be liable for any accidents or damages caused by failure to follow the precautions in the instruction manual.
- The company shall not be liable for any failures caused by the use of uncertified accessories.
- This product is NOT suitable for appliances requiring demanding power reliability and safety, such as aerospace, trunk communication, nuclear control, and medical equipment. Please confirm the applicability of this product in advance.