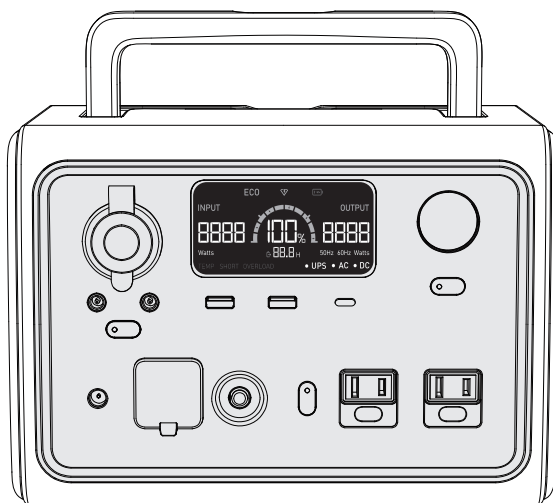


BLUETTI EB3A

Portable Power Station

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.

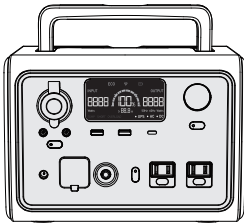
Safety Instructions

Failure to follow these guidelines may cause damage to your unit and injury to yourself or others.

- Keep this unit away from fire, humidity and dust.
- Make sure the place where you are using the unit is well ventilated and spacious.
- DO NOT place the unit on an unstable or tilted surface.
- Turn off the unit IMMEDIATELY in case of malfunction.
- When not using the unit for extended periods of time, power off the unit and disconnect the AC charging cable from the outlet.
- Recommended storage temperature: 14-113°F/-10-45°C.
- Charge the unit to 80% SOC every 3-6 months for long-term storage.

What's In The Box

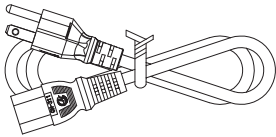
Standard Packaging



EB3A Portable Power Station



Warranty Card

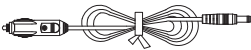


AC Charging Cable

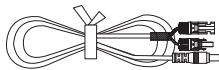


User Manual

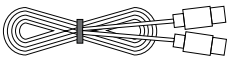
* Below accessories are not included in standard packaging and can be purchased at <https://www.bluettipower.com/>.



Car Charging Cable



Solar Charging Cable



USB-C to USB-C Cable

* **AC Charging Cable:** 71in/180cm.

Car Charging Cable: 28in/72cm, 16AWG, Cigarette Lighter Port to DC7909.

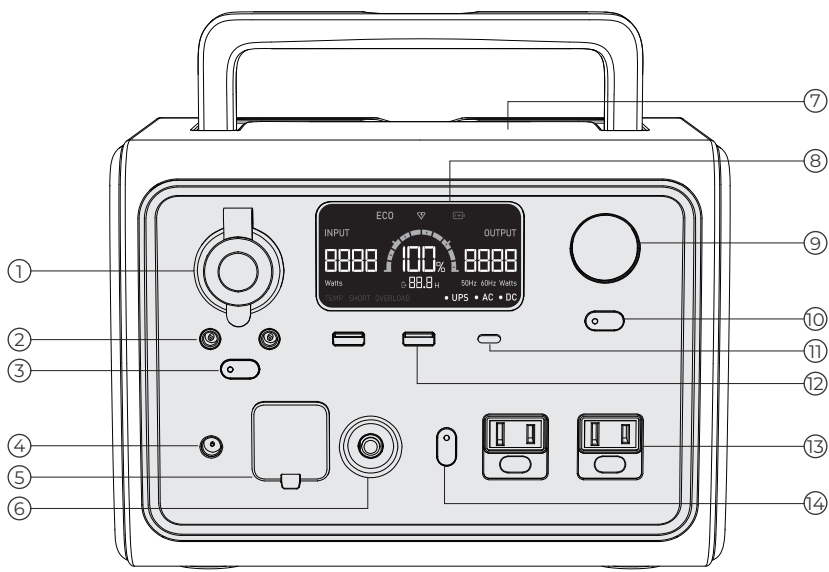
Solar Charging Cable: 59in/150cm, 16AWG, MC4 to DC7909.

USB-C to USB-C Cable: 59in/150cm, 16AWG.

Note: Package details are subject to change without prior notice.

Product Overview

Diagram



- | | |
|---------------------------|---------------------|
| 1. Cigarette Lighter Port | 8. LCD Screen |
| 2. DC5521 Port | 9. LED Lamp |
| 3. DC Power Button | 10. LED Lamp Button |
| 4. DC Input Port | 11. USB-C Port |
| 5. AC Input Port | 12. USB-A Port |
| 6. AC Circuit Breaker* | 13. AC Output Port |
| 7. Wireless Charging Pad | 14. AC Power Button |

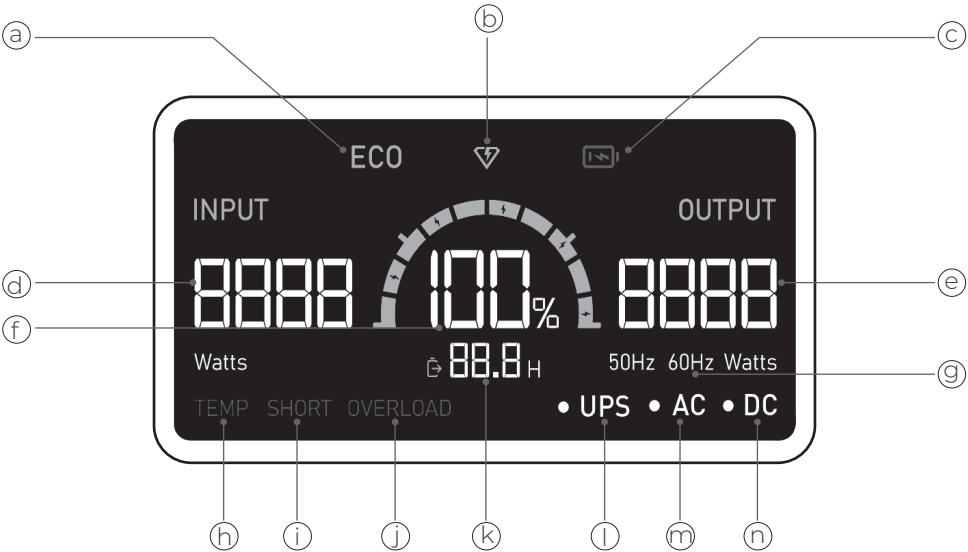
* A circuit breaker is an electrical safety switch designed to protect your unit from damage caused by overcurrent or short circuit. When the AC current exceeds 10A, it will trip automatically. Press it once to reset the unit after these symptoms cleared.

Specifications

Item \ Product		EB3A US		EB3A EU/UK/AU	
General					
Battery Capacity		268.8Wh(12Ah)			
Cell Type		LiFePO4			
Dimensions (L*W*H)		10.04*7.09*7.20IN/255*180*183MM			
Weight		10.14LB/4.6KG			
Discharging Temperature		-4-104°F/-20-40°C			
Charging Temperature		32-104°F/0-40°C			
Working Humidity		10-90%			
AC Output					
Power		600W			
Surge		1200W			
Voltage		120VAC		220-240VAC	
Current		5A		2.6A	
DC Output					
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 *1	Power	100W Max.			
Wireless Charging *1	Power	5/7.5/10/15W			
AC Input					
Power		268/430W Max.			
Voltage		120VAC		220-240VAC	
Current		9A		4A	
Frequency		60Hz		50Hz	
DC Input					
Power		200W Max.			
Voltage		12-28VDC			
Current		8.5A Max.			
Note: EB3A supports a 268W Max. AC input by default. When operating at a temperature of 10-40°C, you can set the Turbo Charging on BLUETTI App and get a 430W Max. input. EB3A also supports 430W Max. PV + AC dual charging. Solar power serves as the primary power supply to the EB3A when the total input exceeds 430W.					

Operation

LCD Screen



- a: ECO Mode
- b: Turbo Charging
- c: Low-battery Alert
- d: Input Power
- e: Output Power
- f: Battery Capacity
- g: AC Frequency
- h: Temperature Anomaly Alert
- i: Short-circuit Alert
- j: Overload Alert
- k: Remaining Time Indicator*
- l: UPS Indicator
- m: AC Indicator
- n: DC Indicator

*This indicator tells the remaining charge/discharge time.

Powering On/Off

Powering on: Press and hold the AC/DC Power Button for 1s to start up corresponding output.

Green light(on the button)	ON
LCD Display	ON

Note: Please turn on the DC power to enable the wireless charging.

Press any button, the LCD screen will stay on for 30 seconds.

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

Green light(on the button)	OFF
LCD Display	OFF

Note: Press and hold any button for at least 3s, the unit will be off.

Standand Mode

Setting Mode: When the AC power is off and LCD screen is on, press and hold AC and DC power buttons simultaneously for 2s. The AC frequency indicator will flash.

Press and hold AC and DC power buttons simultaneously to exist 'Setting Mode' .

Note: If the unit has been idle for 1 minute under 'Setting Mode' , it will automatically exit 'Setting Mode' and the setting changes will not be saved.

ECO Mode: Under 'Setting Mode', press the DC power button to turn it on/off.

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

UPS

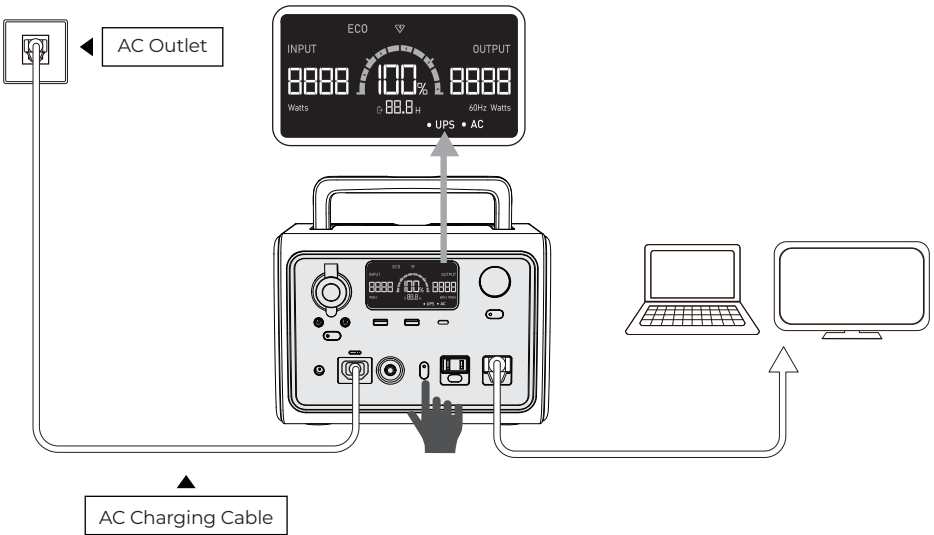
UPS Bypass Mode: Connect the EB3A with the AC power and the 'UPS' will be on display. Then turn on the AC output.

When on this mode, the AC power will directly support the loads on AC output ports and charge the EB3A.

Note: Max. output power: 600W.

The AC inverter is disabled under UPS Bypass Mode.

The unit won't enter this mode unless connecting with AC power AND turning on the AC output.



Setting

AC Frequency¹: Under 'Setting Mode', press the AC power button to switch.

¹ AC Frequency: The number of alternating cycles per second in an AC sine wave. The utility frequency is usually 50/60Hz.

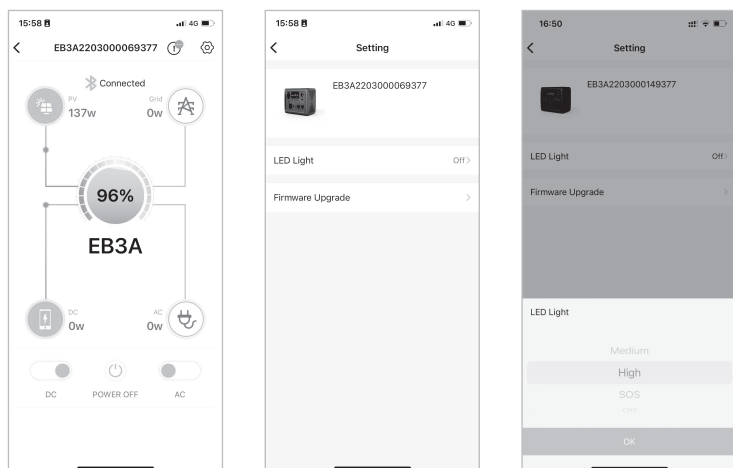
APP

Download BLUETTI App from Google Play or App Store and press 'Connected' to pair with the unit.

Note: Press '⚙️' to customize your settings.

Keep your phone no more than 5m/16.4ft away from the unit during the update.

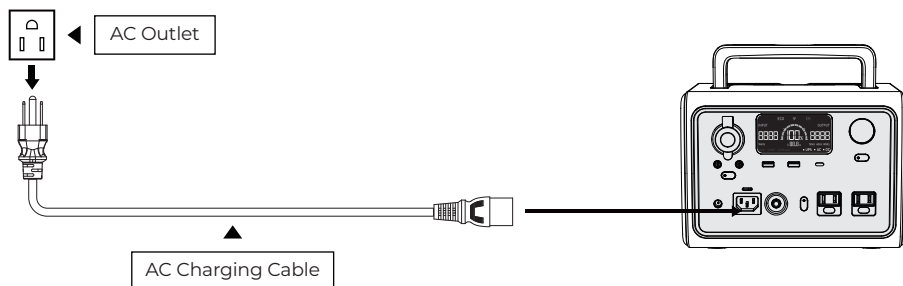
Available functions may vary depending on the version of your BLUETTI App. Please download the latest version for updated features.



Charging

AC Charging

Simply plug the EB3A into the standard wall outlet and start charging.

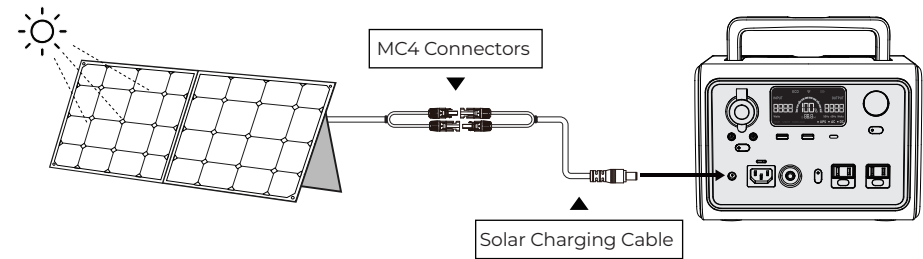


PV Charging

Connect the solar panels (in series or parallel) to EB3A via the solar charging cable.

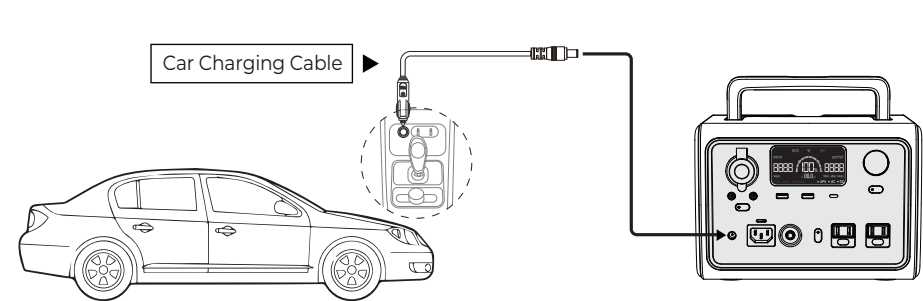
Note: Please make sure your solar panels comply with:

OCV²: 12-28V Input Current: 8.5A Max. Input Power: 200W Max.



Car Charging

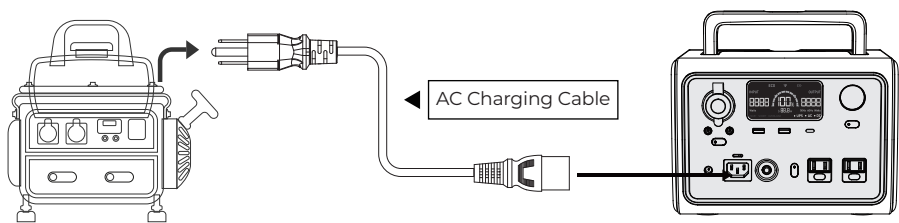
Connect the EB3A directly to the vehicle plug-in cigarette lighter port via the car charging cable.



² OCV: Open circuit voltage. The maximum voltage that the solar panel can produce with no load on it.

Generator Charging

Connect the EB3A with the generator via the AC charging cable.



Note: Please select the generator with compliant and stable voltage.

Discharging



lphone13
12-17 Times
13Wh



MacBook
5-6 Times
49.9Wh



Drone
5-6 Times
43Wh



Camera
10-15 Times
16.4Wh



Power Tool
2.5-3Hrs
80W



Refrigerator
2-2.5Hrs
90W

$$268.8\text{Wh} \times \text{DoD} \times \eta \div (\text{load power}) = \text{charging time (estimated)}$$

Note: DoD refers to the Depth of Discharge, η is the local inverter efficiency. DoD=80-90%, η =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 EB3A, 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 Current: 8.5A Max.

Input Power: 200W Max.

With the same power connector (MC4 or Anderson)

Q: How can I turn on the UPS Bypass Mode and what dose it mean?

A: Connect the EB3A with the AC power and the 'UPS' will be on display. Then turn on the AC output. When on this mode, the AC power will directly support the loads on AC output ports and charge the EB3A.

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. EB3A comes with the premium LiFePO4 battery and proprietary Battery Management System to ensure that it can charge and discharge at the same time.

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Warning Statements:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 20cm between the radiator & body.

BLUETTI POWER INC

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