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.



CONTENTS

Before You Begin	4
Safety Instructions	5
What's In The Box	6
Standard Packaging	6
Product Overview	7
Diagram	7
Specifications	8
Operation	9
LCD Screen	9
Powering On/Off	10
Standand Mode	10
UPS	11
Setting	11
АРР	12
Charging	12
Discharging	14
Appendix	15
FAQs (Frequently Asked Questions)	15
Technical Support	16

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



AC Charging Cable



Warranty Card



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 Port8. LCD Screen2. DC5521 Port9. LED Lamp3. DC Power Button10. LED Lamp Button4. DC Input Port11. USB-C Port5. AC Input Port12. 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	roduct	EB3A US	EB3A EU/UK/AU	
		General		
Battery Capacity	/	268.8W	h(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		
Cigaratta Lightor Dort *1	Voltage	12VDC		
	Current	10A		
DC5521 *2	Voltage	12VDC		
DC3521 Z	Current	10A		
	Voltage	5VDC		
USB-A*2 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 you can set the EB3A also supp	a 268W M Turbo Ch orts 430W	ax. AC input by default. When operat arging on BLUETTI App and get a 43 / Max. PV + AC dual charging. Solar p	ing at a temperature of 10-40°C, OW Max. input. ower 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*
- I: 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 (≤10W for AC, ≤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 Frequency': 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



268.8Wh × DoD × η ÷ (load power) = 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.

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Technical Support

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.

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16

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