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## BLUETTI EB3A

# BLUETTI EB3A Portable Power Station User Manual

Model: EB3A

## 1. INTRODUCTION

The BLUETTI EB3A Solar Generator is a compact and powerful portable power station designed to provide reliable electricity for various applications, from outdoor adventures to emergency home backup. Featuring a durable LiFePO4 battery and multiple output ports, it ensures your essential devices remain powered.

This manual provides detailed instructions on the setup, operation, maintenance, and troubleshooting of your EB3A unit. Please read it thoroughly before use to ensure safe and efficient operation.



## 2. SAFETY INFORMATION

**WARNING:** Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit.
- Do not expose the unit to fire or high temperatures.
- Do not use or store the unit in direct sunlight or in hot environments.
- Keep the unit away from water, rain, and moisture.
- Ensure proper ventilation during use and charging.
- Keep out of reach of children and pets.
- Use only approved charging cables and accessories.

The EB3A incorporates ultra-safe LiFePO4 battery cells and advanced Battery Management System (BMS) technology for enhanced reliability and durability.

## 3. PRODUCT OVERVIEW

The BLUETTI EB3A is designed for ease of use and versatility, featuring multiple input and output ports to meet diverse power needs.

### 3.1. Key Features

- **Compact and Portable:** Weighing only 10 pounds, it's easy to carry.
- **High Capacity:** 268Wh LiFePO4 battery.
- **Powerful Output:** 600W AC inverter with 1200W surge capability.
- **Versatile Ports:** 9 outlets including AC, DC, USB-A, USB-C, and wireless charging.
- **Fast Charging:** Recharge from 0-80% in 30 minutes with combined AC+PV input.
- **UPS Functionality:** Provides reliable backup power during outages.

# 9 Versatile Outlets

For all essentials



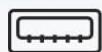
2 × AC Outlets



1 × 100W Type-C



1 × Car Port



2 × USB-A



1 × Wireless Charger



2 × DC5521



Figure 2: BLUETTI EB3A with 9 Versatile Outlets

The EB3A offers a variety of output options to power your devices:

- 2 x 120V AC Outlets (600W total)
- 1 x 12V/10A DC Output (Car Port)
- 2 x 5521 DC Outputs (12V/10A total)
- 2 x USB-A Ports (5V/3A)
- 1 x USB-C Port (100W Max)
- 1 x Wireless Charging Pad (15W)

# Small but in Charge

268Wh / 600W



**4** Times  
Laptop (60Wh)



**22** Hours  
Light (10W)



**4** Hours  
Mini Fridge (60W)



**3** Hours  
TV (80W)



Figure 3: BLUETTI EB3A Powering Various Devices

The EB3A is capable of powering a laptop 4 times (60Wh), a 10W light for 22 hours, a 60W mini-fridge for 4 hours, or an 80W TV for 3 hours on a single charge.

## 4. SETUP

### 4.1. Unboxing and Initial Inspection

Upon receiving your BLUETTI EB3A, carefully open the packaging and inspect the contents. Ensure all items listed below are present and undamaged:

- BLUETTI EB3A Portable Power Station
- AC Charging Cable

- Solar Charging Cable
- User Manual

## 4.2. Charging the EB3A

Before first use, fully charge your EB3A. The unit supports multiple charging methods:

- **AC Wall Outlet:** Connect the provided AC charging cable to the EB3A's AC input port and then to a standard wall outlet. The unit can charge from 0-80% in approximately 30 minutes with combined AC+PV input (PV not required for fast AC charging).
- **Solar Panel:** Connect a compatible solar panel (up to 200W input) to the EB3A's DC/PV input port using the provided solar charging cable. Optimal charging occurs in direct sunlight.
- **Car Charger:** (Cable not included) The EB3A can be charged via a 12V/24V car cigarette lighter port.

**0-80% in 30 Min.**

**Ultra-fast recharging**



Figure 4: Ultra-fast Recharging Options

The EB3A features ultra-fast charging capabilities, reaching 80% capacity in just 30 minutes when utilizing both AC and solar input simultaneously. A single AC cable can charge the EB3A at up to 350W.

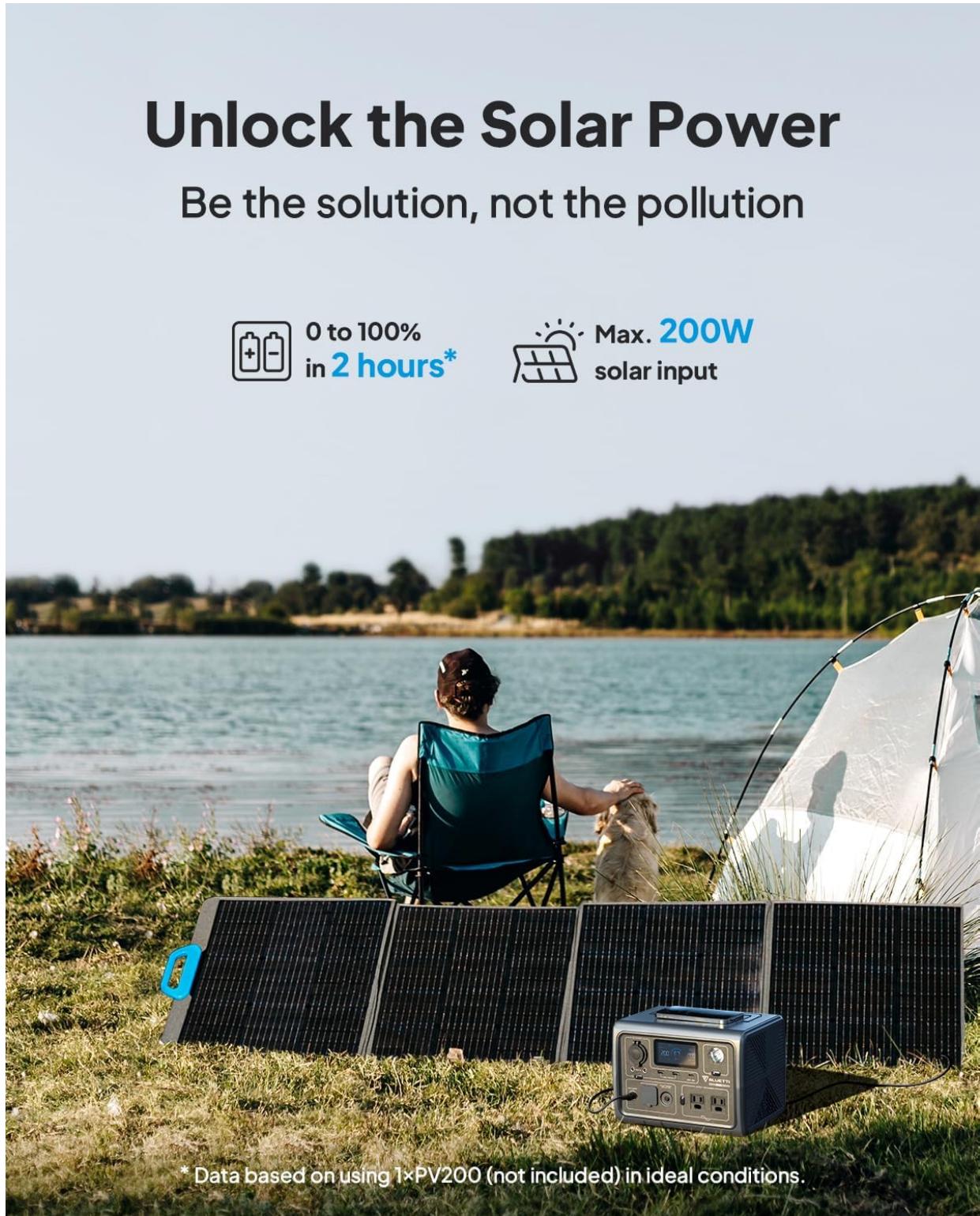


Figure 5: Harnessing Solar Power with EB3A

The built-in MPPT controller supports up to 200W of solar input, allowing for efficient charging from compatible solar panels.

## 5. OPERATING THE EB3A

### 5.1. Turning On/Off

Press and hold the main power button for 2-3 seconds to turn the unit on or off. The LCD display will illuminate.

## 5.2. Activating Output Ports

Each output section (AC, DC, USB) has its own power button. Press the respective button to activate or deactivate the ports in that section. The corresponding indicator light will illuminate when active.

## 5.3. Using the BLUETTI Mobile App

Download the BLUETTI Mobile App from your device's app store (available on Apple App Store and Google Play). The app allows you to monitor the unit's status, control output ports, and adjust settings remotely via Bluetooth.

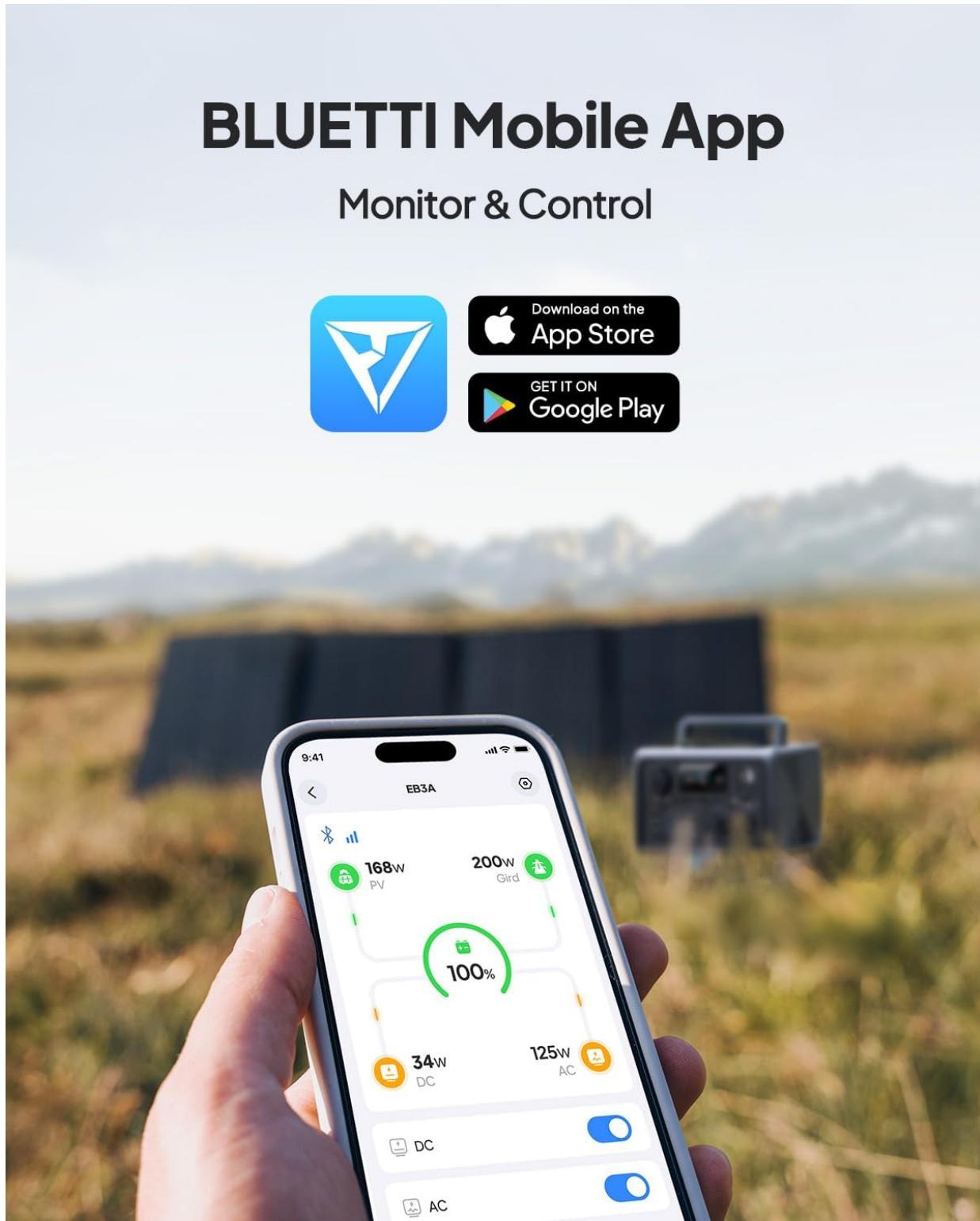


Figure 6: BLUETTI Mobile App for Monitoring and Control

## 5.4. UPS Functionality

The EB3A features an Uninterruptible Power Supply (UPS) function. When connected to an AC wall outlet and simultaneously powering devices, it can instantly switch to battery power if the grid fails, protecting sensitive electronics from data loss or damage.



Figure 7: BLUETTI EB3A as a Home UPS System

## 6. MAINTENANCE

### 6.1. Battery Care

The EB3A uses LiFePO4 batteries, known for their long lifespan (2500+ cycles to 80% capacity). To maximize battery life:

- Avoid fully discharging the battery frequently.

- Store the unit with at least 50% charge if not used for extended periods.
- Recharge the unit every 3-6 months if stored.



Figure 8: LiFePO4 Battery Lasts 6X Longer

## 6.2. Cleaning and Storage

- Clean the unit with a dry, soft cloth. Do not use abrasive cleaners.
- Store in a cool, dry place away from direct sunlight and extreme temperatures.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit not turning on	Battery is completely discharged.	Charge the unit using the AC adapter.
AC output not working	AC output not activated or overloaded.	Press the AC button to activate. Reduce connected load if overloaded.
Slow charging	Insufficient solar input or Eco mode enabled.	Ensure direct sunlight for solar panels. Disable Eco mode in the app for faster charging.
Fan noise	Normal operation during high load or charging.	This is normal. Ensure proper ventilation.

## 8. SPECIFICATIONS

Feature	Specification
Model Name	EB3A
Battery Capacity	268Wh (LiFePO4)
AC Output	600W Pure Sine Wave (1200W Surge)
USB-C Output	100W Max
DC Input (PV/Car)	200W Max
Dimensions (L x W x H)	10" x 7" x 8"
Weight	10 lbs
Cycle Life	2500+ cycles to 80% capacity

## 9. WARRANTY AND SUPPORT

Your BLUETTI EB3A comes with a standard manufacturer's warranty. Please refer to the warranty card included in your packaging for specific terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact BLUETTI customer service through their official website or the contact information provided in your user manual.