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› [BLUETTI](#) /

› [BLUETTI Elite 100 V2 Portable Power Station Instruction Manual](#)

BLUETTI Elite 100 V2

BLUETTI Elite 100 V2 Portable Power Station Instruction Manual

Model: Elite 100 V2 | Brand: BLUETTI

What's in the

Introduction Box Product Overview Setup Operating Charging Safety
App Control Specifications Troubleshooting Maintenance Warranty & Support

1. INTRODUCTION

Thank you for choosing the BLUETTI Elite 100 V2 Portable Power Station. This manual provides essential information for the safe and efficient operation of your device. The Elite 100 V2 is a compact yet powerful 1024Wh LiFePO4 battery backup system, offering 1800W AC output (2700W Lifting Power) and multiple charging options, ideal for outdoor activities, remote work, and emergency home backup.

2. WHAT'S IN THE Box

Upon unboxing your BLUETTI Elite 100 V2, please ensure all the following items are present:

- BLUETTI Elite 100 V2 Portable Power Station
- Charger 1 Alternator Charger Set (shipped separately)
- AC Charging Cable
- Solar Charging Cable
- Grounding Screw
- User Manual

Your browser does not support the video tag.

Video: BLUETTI Elite 100 V2 Unboxing & Overview. This video provides a visual guide to the contents of the product packaging and an initial look at the power station.

3. PRODUCT OVERVIEW

The BLUETTI Elite 100 V2 is engineered for versatility and reliability, featuring a compact design with

robust power delivery.

Key Features:

- **High Capacity & Output:** 1024Wh LiFePO4 battery with 1800W AC output (2700W Lifting Power) to power up to 11 devices simultaneously.
- **Compact & Portable:** 35% smaller and 30% lighter than previous models, weighing 25 lbs, with a hidden handle for easy transport.
- **Fast Charging:** Achieve 0-80% charge in 45 minutes via 1200W AC input, or full charge in under 1.8 hours via 560W DC-DC car charging with Charger 1.
- **Seamless UPS Functionality:** Instantly switches to battery power in under 10ms during outages, protecting sensitive electronics.
- **Whisper-Quiet Operation:** Operates at library-level 30dB noise for undisturbed use.
- **Durable LiFePO4 Battery:** Offers 4000+ life cycles to 80% capacity, ensuring a long lifespan.



Image: The BLUETTI Elite 100 V2 powering various essential devices simultaneously, demonstrating its 1800W AC output and 2700W Lifting Power for outdoor use.

Smallest 1kWh Power Station

Compact design, 35% smaller



Image: A detailed view of the BLUETTI Elite 100 V2's front panel, highlighting its 11 versatile ports for connecting various devices.

4. SETUP

Initial Setup:

- Unpack:** Carefully remove all components from the packaging.
- Inspect:** Check for any visible damage to the power station or accessories.
- Initial Charge:** For optimal performance, fully charge the Elite 100 V2 using the AC charging cable before first use.

Charger 1 Installation (for Car Charging):

The Charger 1 alternator charger set is designed for fast in-vehicle charging. Follow these steps for installation:

- 1. Prepare:** Gather all components, including the 6AWG DC input cable, tools, power station, and solar charging cable.
- 2. Connect to Charger 1:** Switch off the circuit breaker on the 6AWG DC input cable. Connect the 6AWG input cable and the MC4 output cable to Charger 1. Connect the output cable to your power station via a solar charging cable.
- 3. Connect to Car Battery:** Run the input cable through your car to the car battery. Attach the cable to the car battery terminals (red to positive, black to negative).
- 4. Start Charging:** Switch on the circuit breaker. Set the proper voltage before turning on Charger 1 via the BLUETTI app. Securely mount Charger 1.



Image: Step 1 of Charger 1 installation, showing the necessary cables, grounding screw, and tools for preparation.



Image: Step 2 of Charger 1 installation, illustrating the connection of the 6AWG DC input cable and MC4 output cable to the Charger 1 unit.



Image: Step 3 of Charger 1 installation, showing the connection of the Charger 1 cables to the positive and negative terminals of a car battery.



Image: Step 4 of Charger 1 installation, demonstrating how to switch on the circuit breaker and use the BLUETTI app to set the correct voltage for charging.

5. OPERATING INSTRUCTIONS

Powering On/Off:

- **To Power On:** Press and hold the main power button for a few seconds until the display screen illuminates.
- **To Power Off:** Press and hold the main power button again until the display screen turns off.

Connecting Devices:

- **AC Output:** Press the 'AC' button to enable the AC outlets. Plug your AC-powered devices into the available ports.
- **DC Output:** Press the 'DC' button to enable the DC outlets (USB-A, USB-C, DC5521, Car Port). Plug your DC-powered devices into the respective ports.
- **Monitoring:** The display screen provides real-time information on input/output wattage, battery percentage, and estimated run/charge time.

Tiny Yet Tough

1024Wh | 1800W



51.8 hrs

Light (10W)



39.5 hrs

Mini Speaker (15W)



3.9 hrs

Ice Maker (200W)



0.6 hrs

Hair Dryer (1300W)



*** Power Lifting: 2700W**

Image: The BLUETTI Elite 100 V2's illuminated display screen, showing current input and output wattage, along with the battery charge level.

6. CHARGING METHODS

The BLUETTI Elite 100 V2 offers multiple flexible charging options:

- **AC Wall Charging:** Connect the AC charging cable to a standard wall outlet. The unit supports up to 1200W AC input, allowing 0-80% charge in 45 minutes.
- **Solar Charging:** Connect compatible solar panels (up to 1000W max PV input) using the solar charging cable. Full charge can be achieved in approximately 70 minutes under ideal conditions.
- **Car Charging:** Utilize the Charger 1 alternator charger set (shipped separately) to charge from your vehicle's alternator. This method provides 560W DC-DC charging, fully charging the unit in under 1.8

hours.

- **Dual Charging:** Combine solar and AC input for even faster charging, reaching full charge in 70 minutes.

04 Dual Charging

1200W Max AC+DC Charging

Fast charging, no waiting.
Dual charge with simultaneous solar and AC input.
Reliable power for home backup or off the grid.

0-100% 1200W ⚡ 70 min



Image: The BLUETTI Elite 100 V2 connected to multiple solar panels, illustrating its 1000W maximum solar input for rapid charging.

Step-by-Step Guidance



Step 1 Step 2 Step 3 Step 4

Easily Install in 4 Steps

Check the Compatibility Table
Install Your BLUETTI Charger 1 With Ease.

Image: The BLUETTI Elite 100 V2 charging from a standard wall outlet, showcasing its 1200W AC input for fast home charging.

Step-by-Step Guidance

Step 1



Step 2 Step 3 Step 4

Prepare your Installation

1. Check all components in place, including a 6AWG DC input cable.
2. Prepare the tools.
3. Ready your power station and solar charging cable.

* All accessories shown are included.

Image: The BLUETTI Elite 100 V2 being charged inside a vehicle using the Charger 1, highlighting its 6X faster car charging capability.



Image: The BLUETTI Elite 100 V2 simultaneously charging via solar panels and an AC wall outlet, demonstrating its 1200W Max AC+DC dual charging for rapid power replenishment.

7. SAFETY INFORMATION

The BLUETTI Elite 100 V2 is built with comprehensive safety features to protect both the device and its users.

- **LiFePO4 Battery:** Flame-free LiFePO4 battery with 10,000+ tests ensuring zero fire or explosion risk.
- **Smart Battery Management System (BMS):** Protects against overcharge, overdischarge, overcurrent, and overheating.
- **Multi-Protection Shell:** Built tough with shockproof, short-circuit, and leak-resistant properties.
- **Intelligent Algorithm:** Monitors alternator status during car charging to prevent car battery drain.
- **Circuit Breaker:** Integrated 20A circuit protector for enhanced safety.

Safety is Our Priority



- **Flame-Free LFP Battery**
10,000+ tests ensure zero fire or explosion risk.
- **Smart Battery Management**
Keeps each cell safe from overcharge, overcurrent, and overheating.
- **Multi-Protection Shell**
Built tough—shockproof, short-circuit and leak-resistant.

Image: A diagram showcasing the comprehensive protection features of the BLUETTI Elite 100 V2 and Charger 1, including short-circuit, reverse polarity, undervoltage, and over-temperature protection.

8. APP CONTROL

Manage your BLUETTI Elite 100 V2 conveniently with the dedicated smartphone app, offering enhanced control and monitoring capabilities.

- **Real-time Monitoring:** View battery alerts, real-time status, and energy statistics.
- **Custom Charging Modes:** Adjust charging current for optimal efficiency and battery health.
- **Remote Control:** Turn AC/DC outputs on/off, enable/disable UPS mode, and manage other settings remotely.
- **Notifications:** Receive alerts for full battery, low battery (at 20%, 10%, and 5% SoC), and other important status changes.
- **System Switch Recovery:** Enable or disable the system to restore its last output on/off status upon restart.



Image: The BLUETTI app interface displaying energy statistics, working modes, and battery alerts for the Elite 100 V2, enabling smart control and monitoring.

9. SPECIFICATIONS

Feature	Specification
Model Name	Elite 100 V2
Battery Type	LiFePO4
Battery Capacity	1024Wh
AC Output	1800W (Continuous), 2700W (Lifting Power), 3600W (Surge)
Total Power Outlets	11
AC Input	1200W Max
Solar Input (PV)	1000W Max (12V-60V/20A)
Car Charging	560W DC-DC (with Charger 1)
UPS Switchover Time	≤10ms
Noise Level	≤30dB (under 600W)

Dimensions (L x W x H)	12.6" L x 8.5" W x 9.8" H
Item Weight	25 Pounds
Operating Temperature	-20°C to 40°C (-4°F to 104°F)
Life Cycles	4000+ to 80% capacity

10. TROUBLESHOOTING

If you encounter issues with your BLUETTI Elite 100 V2, please refer to the following common solutions:

- **Device Not Powering On:** Ensure the battery is charged. If not, connect to an AC outlet for charging.
- **No Output from AC/DC Ports:** Verify that the respective AC or DC output button is pressed and illuminated. Check the display for any error codes.
- **Slow Charging:** Ensure all charging cables are securely connected. For solar charging, confirm panels are in direct sunlight and free from obstructions. Check the input wattage on the display.
- **Overload Protection:** If an overload occurs, the unit may shut down. Disconnect the overloaded device, restart the power station, and try again with a lower power device.
- **App Connectivity Issues:** Ensure Bluetooth or Wi-Fi is enabled on your smartphone and the power station. Restart both devices and try reconnecting.

For more detailed troubleshooting, please consult the full user manual or contact BLUETTI customer support.

11. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your BLUETTI Elite 100 V2.

- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the unit to 50-80% every 3-6 months.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use liquid cleaners or immerse the unit in water.
- **Ventilation:** Ensure the ventilation openings are clear and free from dust or debris to prevent overheating.
- **Battery Health:** Avoid fully discharging the battery frequently. Regular partial discharges and recharges are healthier for LiFePO4 batteries.

12. WARRANTY & SUPPORT

Your BLUETTI Elite 100 V2 Portable Power Station comes with a **5-year limited warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any questions regarding your product, please contact BLUETTI customer service through their official website or the contact information provided in your warranty card.