BLUETTI BLUETTI Elite 100 V2

BLUETTI Elite 100 V2 Solar Generator User Manual

Model: BLUETTI Elite 100 V2

1. INTRODUCTION

The BLUETTI Elite 100 V2 is a portable power station designed to provide reliable power for various applications, including outdoor camping, RV use, remote work, and emergency backup during power outages. It features a 1024Wh LiFePO4 battery, 1800W AC output, and multiple ports for charging and powering up to 11 devices simultaneously. Key features include:

- 1024Wh capacity with 1800W AC output (3600W surge capability).
- Compact design, 35% smaller and 30% lighter than previous models, weighing 25 lbs.
- Fast charging: 0-80% in 45 minutes via 1200W TurboBoost AC charging, or full charge in 70 minutes via 1000W solar input.
- Uninterrupted Power Supply (UPS) function with less than 10ms switchover time.
- LiFePO4 battery with 4000+ life cycles to 80% capacity, offering a 10-year lifespan.
- Quiet operation, with noise levels under 30dB for silent charging.

2. WHAT'S INCLUDED

Upon unboxing your BLUETTI Elite 100 V2, ensure all components are present:

- BLUETTI Elite 100 V2 Portable Power Station
- AC Charging Cable
- Solar Charging Cable
- Grounding Screw
- User Manual

Figure 2.1: BLUETTI Elite 100 V2 Portable Power Station with its various ports and display.

3. SETUP AND FIRST USE

3.1 Initial Charging

Before first use, fully charge the BLUETTI Elite 100 V2. This ensures optimal battery performance and longevity. You can charge it using the included AC charging cable or solar charging cable.

- **AC Charging:** Connect the AC charging cable to the AC input port on the power station and then to a standard wall outlet. The display will show the charging progress.
- **Solar Charging:** Connect compatible solar panels (sold separately) to the DC/PV input port using the provided solar charging cable. Ensure the solar panels are placed in direct sunlight for maximum efficiency.

Figure 3.1: The BLUETTI Elite 100 V2 being charged via solar panels in an outdoor setting.

Figure 3.2: The BLUETTI Elite 100 V2 connected to a wall outlet for AC charging in a home environment.

4. OPERATING THE POWER STATION

4.1 Powering Devices

The Elite 100 V2 offers various output ports to power different devices:

- **AC Outlets (1800W):** Four standard AC outlets are available for household appliances and electronics.
- **USB-A Ports (15W Max):** Two USB-A ports for charging smartphones, tablets, and other USB-powered devices.

- **USB-C Ports (100W & 140W Max):** Two USB-C ports for fast charging compatible devices like laptops and modern smartphones.
- **DC5521 Ports (12V/8A):** Two DC output ports for specific DC-powered devices.
- **Car Port (12V/10A):** One car cigarette lighter port for car appliances.
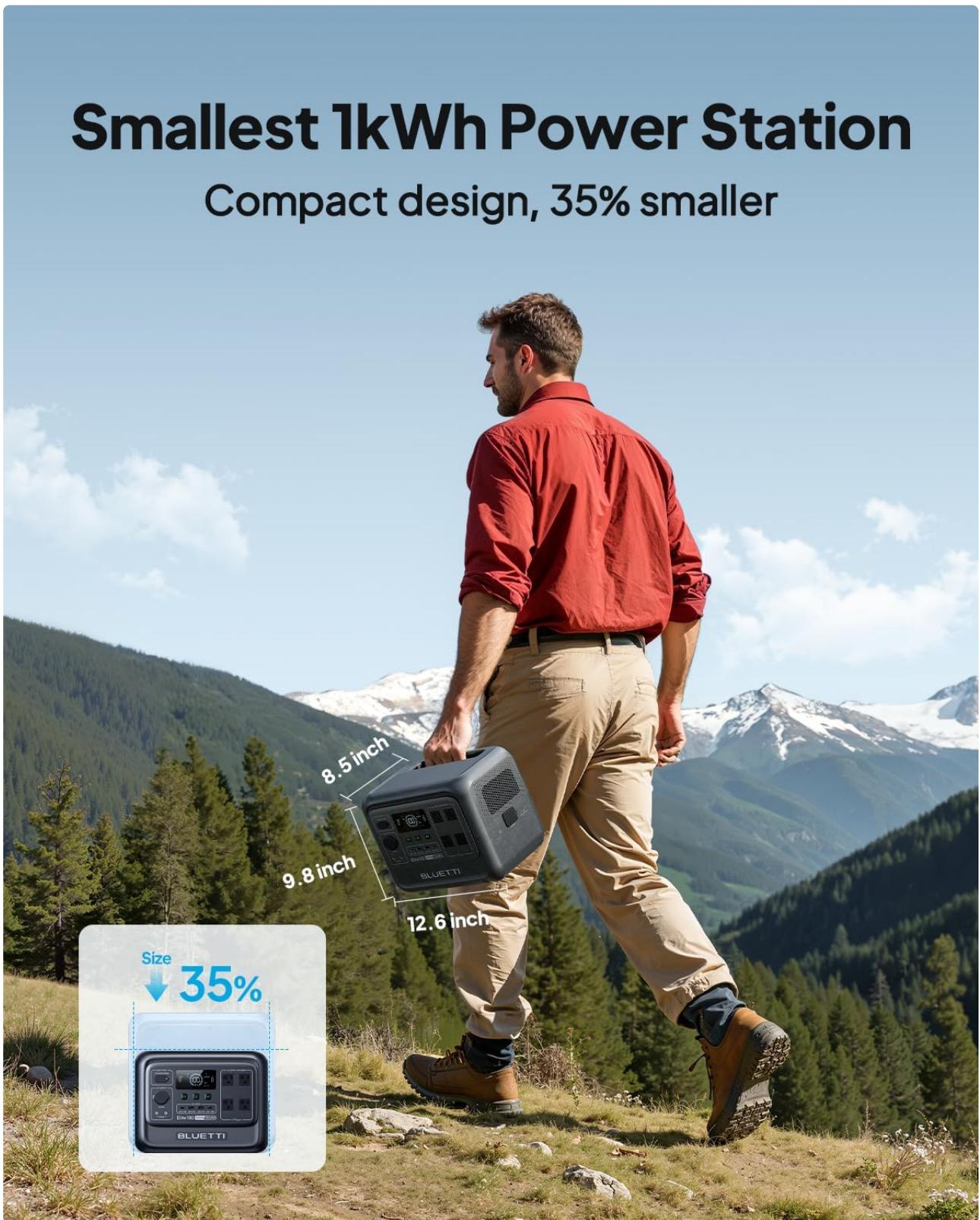

Figure 4.1: Overview of all 11 output ports on the BLUETTI Elite 100 V2.

4.2 Uninterrupted Power Supply (UPS) Function

The UPS function allows the power station to act as a backup power source for critical devices. When connected to an AC wall outlet and devices are plugged into the power station, it will automatically switch to battery power within 10ms if the grid power fails. This ensures continuous operation for sensitive electronics like Wi-Fi routers, smart home hubs, and

PCs.

Durable Battery Power
Tough inside, always ready

BLUETOPUS

BMS

5-Year
Coverage
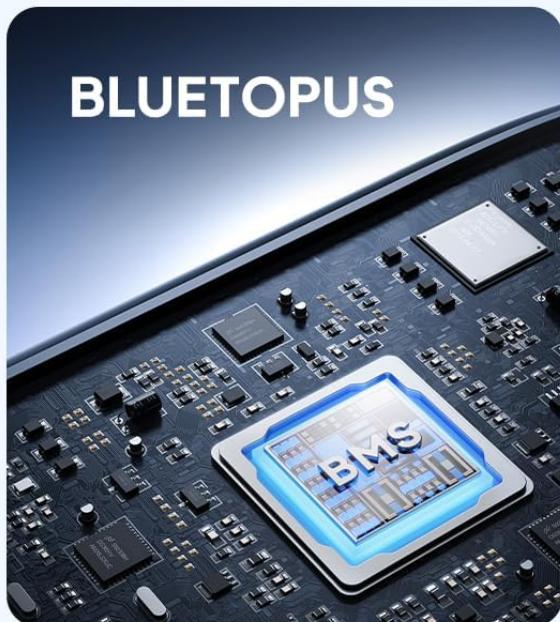
10-Year
Lifespan

Cycles

4000+

* Note: Retains 80% of original capacity after 4000 cycles.

Figure 4.2: The BLUETTI Elite 100 V2 providing seamless UPS backup for a desktop computer setup.

4.3 Smart App Control

Download the BLUETTI app to monitor and control your Elite 100 V2 remotely via Bluetooth or Wi-Fi. The app allows you to:

- Monitor input/output power and battery status.
- Customize charging modes (Standard, Silent, Turbo, Custom).
- Receive full battery alerts and low battery warnings.
- Control AC/DC outputs.

- Enable/disable Power Lifting mode for high-wattage resistive loads.

Figure 4.3: The BLUETTI app interface on a smartphone showing real-time power monitoring and control options.

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Video 4.1: Official BLUETTI video demonstrating the Elite 100 V2's features, including its use as a camp light and backup light. This video highlights its compact size and versatility for various outdoor and indoor scenarios.

5. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your BLUETTI Elite 100 V2, follow these maintenance guidelines:

- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the battery 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.
- **Battery Health:** The LiFePO4 battery is designed for 4000+ cycles to 80% capacity. Avoid consistently draining the battery to 0% or charging to 100% if not necessary for daily use, as this can extend overall battery life.

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Video 5.1: Official BLUETTI unboxing and overview of the Elite 100 V2, showcasing its components and initial setup. This video provides visual guidance for new users.

6. TROUBLESHOOTING

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

- **Unit Not Turning On:** Ensure the battery is charged. If the battery is depleted, connect it to an AC outlet or solar panels for charging.
- **No Output from AC/DC Ports:** Check if the respective AC or DC output buttons are enabled on the unit or via the app. Ensure the device you are trying to power is within the power station's wattage limits.
- **Slow Charging:** Verify that the charging source (AC outlet or solar panels) is providing sufficient power. For solar charging, ensure panels are in direct sunlight and free from obstructions. Check cable connections.
- **Overload Protection:** If an overload occurs, the unit may shut down. Disconnect the overloaded device, and restart the power station. Reduce the total power draw to stay within the unit's limits.
- **App Connectivity Issues:** Ensure Bluetooth and/or Wi-Fi are enabled on your smartphone and the power station. Try restarting both the app and the power station.

7. SPECIFICATIONS

Feature	Specification
Brand	BLUETTI
Model Name	BLUETTI Elite 100 V2
Battery Type	LiFePO4
Capacity	1024Wh
AC Output Power	1800W (3600W Surge)
AC Output Voltage	120V
AC Output Frequency	60Hz
DC/PV Input	12V-60V/20A/1000W Max
USB-A Output	2 x 15W Max
USB-C Output	1 x 140W Max, 1 x 100W Max

Feature	Specification
DC Output (5521)	2 x 12V/8A
Car Port Output	12V/10A
Dimensions (L x W x H)	12.6"L x 8.5"W x 9.8"H
Item Weight	25 Pounds
Lifespan	4000+ cycles to 80% capacity

8. WARRANTY AND SUPPORT

8.1 Product Warranty

The BLUETTI Elite 100 V2 comes with a 5-year warranty covering defects in materials and workmanship. Extended protection plans are also available for 3-year and 4-year durations.

8.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact BLUETTI customer support through their official website or the contact information provided in your user manual. You can also visit the BLUETTI Store on Amazon for more information and resources.