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› BLUETTI Portable Power Station EB55 User Manual

BLUETTI EB55

BLUETTI EB55 Portable Power Station User Manual

Model: EB55 | Brand: BLUETTI

1. INTRODUCTION

The BLUETTI EB55 Portable Power Station is a versatile and reliable power solution designed for outdoor adventures, emergency backup, and off-grid living. Featuring a 537Wh LiFePO4 battery and a 700W pure sine wave AC inverter, it provides stable and safe power for a wide range of electronic devices and small appliances.



Figure 1: Front view of the BLUETTI EB55 Portable Power Station, highlighting its various ports and display.

2. WHAT'S INCLUDED

Upon unboxing your BLUETTI EB55, please ensure all the following components are present:

- BLUETTI EB55 portable power station
- AC adapter
- Solar charging cable
- Car charging cable
- User manual

3. PRODUCT OVERVIEW

3.1 Design and Portability

The EB55 is designed for ease of transport, weighing approximately 16.5 lbs (7.5 kg) and featuring a foldable handle. Its compact dimensions of 10.9"L x 7.8"W x 7.9"H make it convenient for various applications.



Figure 2: Dimensions of the BLUETTI EB55, showing its compact size.

POWER-PACKED **LiFePO₄**

Reliable and durable to last 6x longer.*

2500+ cycles



* After 2500+ cycles, the LFP battery remains around 80% of its original capacity and lasts 6-8 times longer than conventional ones.

Figure 3: The BLUETTI EB55 being carried by its handle, demonstrating its portability for outdoor use.

3.2 Versatile Outputs

The EB55 offers 13 versatile output ports to meet diverse power needs:

- 4 x 700W AC Outlets (1400W Peak)
- 1 x 100W USB-C PD Port
- 4 x USB-A Ports (5V/3A)

- 1 x 12V/10A Car Port
- 2 x DC5521 Ports
- 1 x 15W Wireless Charging Pad

CAMPING GAME CHANGER

Meet all your needs during camping.



Phone (10Wh)

50 Times



Electric Blanket (120W)

3.8 Hrs



Mini Fridge (60W)

8 Hrs



Slow Cooker (200W)

2.2 Hrs



700W
output

537Wh
capacity

Figure 4: Visual representation of the 13 versatile output ports on the BLUETTI EB55.

3.3 Power-Packed LiFePO4 Battery

Equipped with 537Wh LiFePO4 battery cells, the EB55 offers enhanced durability and a longer lifespan compared to

traditional lithium-ion batteries. It boasts over 2500 charge cycles before its capacity degrades to 80%.

EASY PORTABILITY ENDLESS POSSIBILITY



Figure 5: An illustration showing the internal LiFePO4 battery structure and its impressive cycle life.

3.4 Intuitive Display

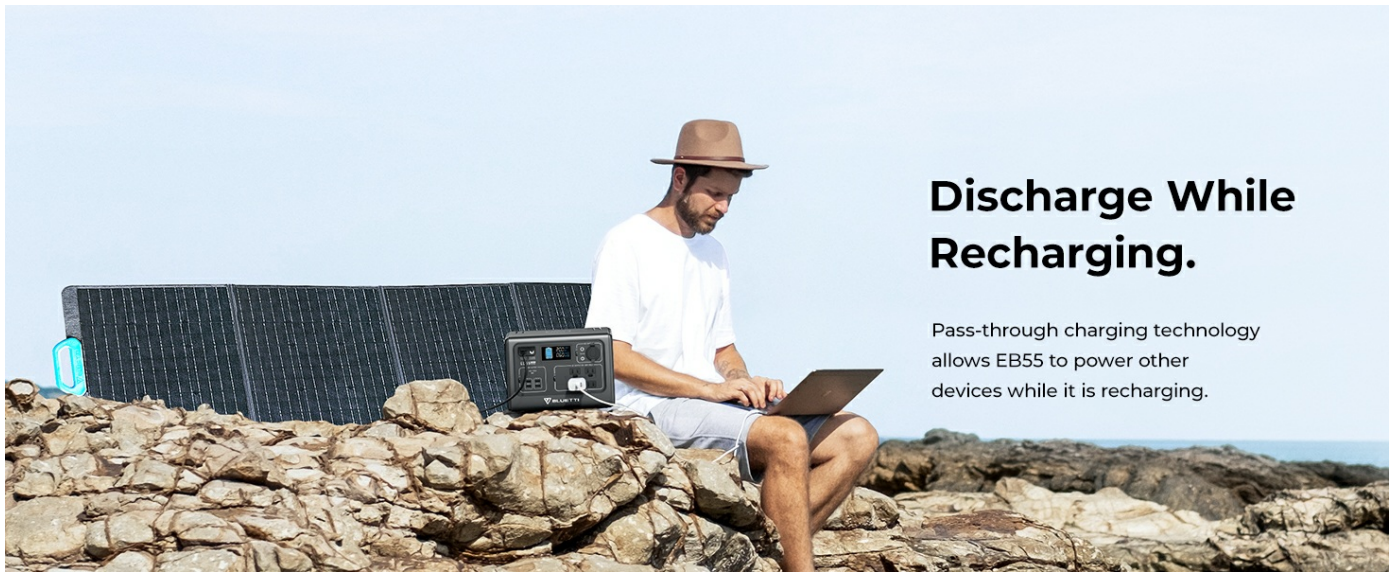
The clear LCD display provides real-time information about battery capacity, input/output wattage, AC frequency, and alerts for low battery, temperature anomaly, overload, and short-circuit conditions.



Figure 6: Detailed view of the EB55's display, indicating battery status, power flow, and alerts.

3.5 Integrated Lighting

The EB55 features a diffused LED light on its rear, offering three lighting modes: low, high, and SOS. This provides convenient illumination for various situations, from camping to emergencies.



Discharge While Recharging.

Pass-through charging technology allows EB55 to power other devices while it is recharging.

Figure 7: The EB55 providing light inside a tent, showcasing its integrated LED light feature.

4. CHARGING METHODS

The BLUETTI EB55 supports multiple charging methods to ensure you always have power:

6 WAYS TO RECHARGE

Max. 400W input.



Dual Wall Outlet*

1.8 Hrs



Wall Outlet + Solar

1.8-2.3 Hrs



Wall Outlet

3.2 Hrs



Generator

3.2 Hrs



Solar Panel

3.2-3.7 Hrs



Vehicle Charging

3-6 Hrs



Figure 8: An infographic detailing the six different ways to recharge the BLUETTI EB55.

4.1 AC Wall Charging

Use the included AC adapter to fully charge the EB55 from a standard wall outlet in approximately 3.2 hours. Dual AC input (with an optional T200 adapter kit) can reduce charging time to 1.8 hours.



Figure 9: The EB55 connected to a wall outlet for charging.

4.2 Solar Charging

The EB55 can be charged using solar panels (up to 200W input), allowing for eco-friendly power replenishment in 3.2-3.7 hours depending on solar conditions. An AC + PV charging setup can achieve up to 400W input, charging in 1.8-2.3 hours.

GO SOLAR. GO LONGER

Be the solution, not the pollution.



0 to 100% in
2.7 hours*



Max. **200W**
solar input



* Data based on using 1xPV200 (not included) in ideal conditions.

Figure 10: The EB55 being charged by solar panels outdoors.

4.3 Car Charging

For on-the-go charging, the EB55 can be recharged via your car's 12V/24V output in approximately 3-6 hours.



Figure 11: The EB55 connected for charging inside a vehicle.

5. OPERATING INSTRUCTIONS

5.1 Turning On/Off Output Sections

Each output section (DC Output, AC Output) has a dedicated power button. Press and hold the button for approximately 2 seconds to turn the section ON or OFF. A green indicator light will illuminate when the section is active.

5.2 ECO Mode

The EB55 features an ECO mode to improve energy efficiency. When activated, the AC output will automatically turn off after a 4-hour low ($\leq 10W$) or no load to conserve power. To disable ECO mode, press and hold both the DC Output and AC Output buttons simultaneously until the ECO indicator on the display blinks and then turns off.

5.3 Wireless Charging

To use the 15W wireless charging pad, ensure the DC Output section is turned ON. Place your compatible device on the charging pad located on top of the unit.

6. MAINTENANCE

6.1 Storage Tips

- Charge the unit to 80% SOC every 3-6 months for long-term storage.
- Do not stack anything on top of the unit, either in storage or in use.
- Please store the power station in a dry and cool place at 14-113° F (-10-45°C).



Figure 12: Key storage recommendations for the EB55 to ensure battery longevity.

7. TROUBLESHOOTING

If you encounter issues with your BLUETTI EB55, consider the following:

- **No Output:** Ensure the specific output section (DC or AC) is turned on via its dedicated button. Check the display for any error indicators.
- **Charging Issues:** Verify that all charging cables are securely connected. For solar charging, ensure panels are in direct sunlight and correctly oriented. Check the input wattage on the display.
- **Overload/Temperature Alerts:** If an alert appears, disconnect some devices to reduce the load or allow the unit to cool down.
- **Display Not Working:** Briefly press any button to wake the display. If it remains off, ensure the unit has sufficient charge.

For persistent issues, please refer to the detailed troubleshooting section in the full user manual (PDF) or contact BLUETTI customer support.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	BLUETTI
Model Name	EB55
Wattage	600 watts
Output Wattage	700
Voltage	120 Volts (AC)
Item Weight	10 Pounds (4.5 kg)
Product Dimensions	10"L x 7"W x 8"H (25.4cm x 17.8cm x 20.3cm)
Power Source	Solar Powered
Battery Cell Type	Lithium-Phosphate (LiFePO4)
Recommended Uses	Camping
Included Components	User Manual

9. WARRANTY AND SUPPORT

BLUETTI products typically come with a manufacturer's warranty. For specific warranty details, registration, or technical support, please refer to the official BLUETTI website or the contact information provided in your product packaging. Keep your purchase receipt for warranty claims.



About Us

- Pioneer in Portable Power Solutions
- 12 Years of Cutting-Edge Solar Tech
- Committed to Sustainability and Innovation
- Initiator of the *Lighting An African Family* Charity Event



Figure 13: BLUETTI customer service is available to assist with any inquiries.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question