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BLUETTI AC300+B300K

BLUETTI Solar Generator AC300 & B300K Expansion Battery User Manual

Model: AC300+B300K | Brand: BLUETTI

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your BLUETTI Solar Generator AC300 and B300K Expansion Battery system. Please read this manual thoroughly before use and retain it for future reference.

The BLUETTI AC300 is a modular power station designed for versatile energy needs, from home backup to off-grid adventures. It features a 3000W AC output (6000W peak) and can be expanded with up to four B300K battery packs, offering a total capacity of 11059.2Wh. The system utilizes durable LiFePO4 batteries and offers multiple charging and output options.

2. PRODUCT FEATURES

- **Expandable Capacity:** The AC300 supports up to 4 B300K battery packs (2764.8Wh each), allowing an impressive overall capacity of 11059.2Wh. This ensures uninterrupted power for your essentials during outages.
- **Versatile Output Ports:** Equipped with 16 versatile ports, including NEMA TT-30 for travel trailers, a 30A RV port, 3000W AC outlets, USB-A, 100W USB-C, wireless charger, and car port, to cover diverse charging needs.
- **24/7 UPS Home Backup:** The AC300 & B300K power system can be integrated into your home grid to provide power during blackouts. Professional installation by a licensed electrician is required for UPS functionality.
- **Reliable & Stable Design:** Features an aluminum protective casing, LiFePO4 battery cells (4000+ cycles), AI-BMS for enhanced safety, and efficient cooling fans for better heat dissipation.
- **App Remote Control:** Monitor and control your power station remotely via Bluetooth or Wi-Fi using the BLUETTI App.

3. SETUP & INSTALLATION

3.1 Initial Setup

Upon receiving your BLUETTI AC300 and B300K, carefully unpack all components. The AC300 unit and B300K battery are shipped separately. Connect the AC300 to the B300K battery using the provided cables. Ensure all connections are secure.



Figure 1: BLUETTI AC300 power station stacked on top of the B300K expansion battery.

3.2 Connecting Expansion Batteries

The AC300 can be expanded with up to four B300K units. Connect additional B300K batteries to the AC300 using the appropriate battery expansion cables (P090A). Ensure proper connection for stable power delivery.



Figure 2: Illustration of BLUETTI AC300 connected to multiple B300K expansion batteries for increased capacity.

3.3 UPS Home Backup Installation

For 24/7 UPS home backup functionality, the AC300 system can be integrated into your home's electrical panel. This requires a licensed electrician to ensure safe and compliant installation. The system provides

seamless power transfer during outages.

Your browser does not support the video tag.

Video 1: Official BLUETTI video demonstrating the AC300 as an expandable home battery backup system.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

To power on the AC300, press and hold the main power button until the display illuminates. To power off, press and hold the same button until the display turns off. Ensure all connected devices are safely disconnected before powering off.

4.2 Connecting Devices

The AC300 offers various output ports. Plug your devices into the appropriate AC outlets (3000W max), USB-A, USB-C (100W), 12V/30A DC output, 24V/10A DC output, or use the wireless charging pads on top of the unit. The NEMA TT-30 and 30A RV ports are available for specific vehicle and trailer needs.

Your browser does not support the video tag.

Video 2: Official BLUETTI video showcasing the AC300 and B300 powering various home appliances and tools.

4.3 Charging the AC300 System

The BLUETTI AC300 supports multiple charging methods:

- **AC Charging:** Use the provided 15A AC charging cable to charge the unit from a standard wall outlet. The AC300 supports up to 3000W AC input for rapid charging.
- **Solar Charging:** Connect compatible solar panels to the AC300 for efficient solar charging. It supports up to 2400W max. PV input.
- **Car Charging:** Use the car charging cable to recharge the power station on the move via your vehicle's cigarette lighter port.
- **Dual Charging:** Combine AC and solar input for a maximum fast dual charging of 5400W.

Rapid Charge, Ready to Use

Stride up, better portability



3000W
AC input



3000W
AC+ Solar Input



2400W
Solar input



On-the-Go
Charging



* The 30A AC charging cable provides 3000W input, sold separately.

Figure 3: BLUETTI AC300 connected to a wall outlet for rapid AC charging.

4.4 App Remote Control

Download the BLUETTI App from your device's app store. Connect the AC300 via Bluetooth or Wi-Fi to monitor battery status, input/output power, adjust settings, and receive alarms directly from your smartphone.

App Remote Control

Everything at your fingertips

Bluetooth

Wi-Fi



Figure 4: Screenshot of the BLUETTI App displaying real-time power monitoring and control options.

5. MAINTENANCE

To ensure the longevity and optimal performance of your BLUETTI AC300 and B300K system, follow these maintenance guidelines:

- **Regular Cleaning:** Keep the unit clean and free from dust and debris. Use a dry, soft cloth for cleaning. Ensure ventilation ports are unobstructed.
- **Storage:** If storing the unit for extended periods, ensure the battery is charged to approximately 50-80% and store in a cool, dry place away from direct sunlight and extreme temperatures. Recharge every 3-6 months to prevent deep discharge.

- **Avoid Overloading:** Do not exceed the rated output power of 3000W to prevent damage to the inverter.
- **Firmware Updates:** Regularly check for and install firmware updates via the BLUETTI App to ensure optimal performance and access to new features.

6. TROUBLESHOOTING

If you encounter issues with your BLUETTI AC300 system, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Unit not powering on	Battery fully discharged or loose connection.	Ensure battery cables are securely connected. Charge the unit using AC input. If the issue persists, contact support.
No AC output	AC output not enabled or overloaded.	Ensure AC output is turned on via the display or app. Reduce connected load if exceeding 3000W.
Solar charging not working	Incorrect panel connection or insufficient sunlight.	Verify solar panel connections (MC4). Ensure panels are in direct sunlight and clean. Check input voltage/current on display.
Error codes on display	Internal system fault or specific condition.	Refer to the full user manual (PDF) for specific error code meanings and solutions. If necessary, perform a hard reset by unplugging all inputs/outputs and restarting.

For more detailed troubleshooting, please refer to the official [User Manual \(PDF\)](#).

7. SPECIFICATIONS

- **Brand:** BLUETTI
- **Model Name:** AC300+B300K
- **Wattage:** 2764.8 Watt-hours (per B300K battery)
- **Output Wattage:** 3000W (AC)
- **Starting Wattage:** 6000W (Peak)
- **Voltage:** 120 Volts (AC)
- **Power Source:** Solar Powered, AC, Car
- **Fuel Type:** Electric
- **Item Weight:** 112.6 Pounds
- **Product Dimensions:** 20.5" L x 12.5" W x 14.4" H
- **Total Power Outlets:** 7 (AC outlets) + various DC/USB ports
- **Included Components:** BLUETTI AC300 power station, B300K expansion battery (shipped separately), 15A AC charging cable, DC charging cable, car charging cable, user manual.

8. WARRANTY & SUPPORT

The BLUETTI AC300 & B300K system comes with a manufacturer's warranty. For specific warranty terms and

conditions, please refer to the warranty card included in your product packaging or the official BLUETTI website.

For technical support, service, or any questions regarding your product, please contact BLUETTI customer service. You can find contact information on the official BLUETTI website or in your user manual.

Official User Manual (PDF): [Download Here](#)

Related Documents - AC300+B300K

 	<p>BLUETTI AC300 Portable Power Station User Manual - Power Your Life</p> <p>Explore the BLUETTI AC300 Portable Power Station with this comprehensive user manual. Learn about its advanced features, safe operation, app control, charging methods, UPS functionality, and technical specifications for reliable power anywhere.</p>
 	<p>BLUETTI AC300 Portable Power Station User Manual</p> <p>Comprehensive user manual for the BLUETTI AC300 Portable Power Station, covering features, installation, app control, safety instructions, technical specifications, and troubleshooting for reliable solar and grid power.</p>
 	<p>BLUETTI B300 Expansion Battery User Manual: Power Your Adventures</p> <p>Comprehensive user manual for the BLUETTI B300 expansion battery. Learn about its features, specifications, charging methods, and how to connect it with AC200MAX and AC300 for extended power solutions.</p>
  	<p>BLUETTI B300K Portable Power Station User Manual Specs & Operation Guide</p> <p>Comprehensive user manual for the BLUETTI B300K portable power station. Learn about setup, operation, safety, specifications, troubleshooting, and maintenance for your B300K battery expansion unit.</p>
  	<p>BLUETTI B300K Portable Power Station User Manual</p> <p>Comprehensive user manual for the BLUETTI B300K portable power station, covering setup, operation, safety, maintenance, specifications, and troubleshooting. Learn how to connect and use the B300K with various BLUETTI power stations.</p>



B300 Portable Power Station

[BLUETTI B300 Portable Power Station User Manual](#)

Comprehensive user manual for the BLUETTI B300 Portable Power Station, detailing its features, safety instructions, charging methods, expansion capabilities with AC300 and AC200MAX, technical specifications, FAQs, and maintenance guidelines.