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> [BLUETTI Solar Generator AC300 & 2 B300K Expansion Batteries User Manual](#)

BLUETTI AC300+2B300K

BLUETTI Solar Generator AC300 & 2 B300K Expansion Batteries User Manual

Model: AC300+2B300K | Brand: BLUETTI

1. INTRODUCTION AND OVERVIEW

The BLUETTI AC300 is a modular solar power station designed for versatile energy needs, from home backup to off-grid living. When paired with two B300K LiFePO4 expansion batteries, it offers a substantial 5529.6Wh capacity and a 3000W pure sine wave AC inverter (6000W peak). This system provides reliable, clean energy and can be expanded further with additional B300K battery packs.



Figure 1: BLUETTI AC300 Power Station with two B300K Expansion Batteries.

Harmonious Modularity

Capacity within grasp



Figure 2: Harmonious Modularity - Capacity within grasp, showing AC300 with one or four B300K units.

2. SETUP GUIDE

2.1 Unboxing and Initial Inspection

Upon receiving your BLUETTI AC300 and B300K batteries, carefully unpack all components. Verify that all items listed in the 'What You Get' section are present and undamaged. Included components are: BLUETTI AC300 power station, 2 B300K expansion batteries (shipped separately), 15A AC charging cable, DC charging

cable, and car charging cable.

2.2 Connecting Expansion Batteries

1. Place the AC300 unit on a stable, flat surface.
2. Position the B300K expansion batteries directly below or adjacent to the AC300 unit.
3. Connect the provided battery connection cables from the AC300 to the B300K units. Ensure connections are secure.
4. For optimal performance and stability, ensure the units are stacked or placed in a manner that prevents tipping.

2.3 UPS Home Backup Integration (Optional)

The AC300 & 2 B300K power system can be integrated into your home grid for 24/7 Uninterruptible Power Supply (UPS) functionality during blackouts. **Important:** This installation requires a licensed electrician to ensure proper and safe connection to your home's electrical system. Refer to the detailed wiring diagrams in the separate professional installation guide.

Power Where You Want

Stride up, better portability



Figure 3: The modular system can be transported using a compatible cart for portability.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

Press and hold the main power button on the AC300 unit for a few seconds to power the system on or off. The display screen will illuminate upon startup.

3.2 Charging the System

The BLUETTI AC300 system supports multiple charging methods:

- **AC Charging:** Connect the 15A AC charging cable to a standard wall outlet. The system supports up to 3000W AC input for rapid charging (80% in approximately 45 minutes).
- **Solar Charging:** Connect compatible solar panels to the DC input ports. The AC300 supports up to 2400W solar input.
- **Car Charging:** Use the provided car charging cable to charge from your vehicle's 12V or 24V outlet.
- **AC+Solar Dual Charging:** Combine AC and solar input for even faster charging, up to 3000W.

Rapid Charge, Ready to Use
Stride up, better portability

3000W AC input 3000W AC+ Solar Input 2400W Solar input On-the-Go Charging

Charge in Just **80%** in 45 minutes

AC300 3000W
BLUETTI B300K (768Wh)

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

The advertisement features a photograph of the BLUETTI AC300 system in a living room. The system consists of two stacked units: the top unit is the AC300 3000W inverter, and the bottom unit is the B300K (768Wh) battery. A blue AC charging cable is plugged into a wall outlet. A callout box highlights the rapid charging capability: 'Charge in Just 80% in 45 minutes'. Four icons represent different charging methods: AC input, AC+Solar input, Solar input, and On-the-Go Charging. A footnote at the bottom states: '* The 30A AC charging cable provides 3000W input, sold separately.'

Figure 4: Rapid Charge capability of the BLUETTI AC300 system.

3.3 Output Ports and Usage

The AC300 offers a wide array of output options to power various devices:

- 6 x 3000W AC Outlets (6000W Peak)
- 1 x 100W USB-C Port
- 2 x 5V/3A USB-A Ports
- 2 x 18W USB-A Ports
- 1 x 24V/10A Car Port
- 1 x 12V/30A RV Port
- 1 x 30A NEMA TT-30 Port
- 2 x 15W Wireless Charging Pads (on top of the AC300 unit)
- 1 x 12W USB-A Port (on B300K unit)

16+1: Power Possibilities

Designed for all your needs



Figure 5: 16+1 Power Possibilities - Designed for all your needs.

3.4 Smart Control via BLUETTI App

Download the official BLUETTI app to remotely monitor and control your power station. The app allows you to view real-time power input/output, battery status, adjust settings, and receive notifications. Connect via Wi-Fi or Bluetooth for seamless management.



4 Days of Emergency Power*

Expand AC300 with up to 4 B300K units,
delivering 2764.8Wh to 11059.2Wh of power.

* Calculated by 2.7KWh of daily power consumption
in an emergency.

Figure 6: Power at Your Fingertips - Remote power control via the BLUETTI App.

4. MAINTENANCE

4.1 Battery Lifespan and Care

The BLUETTI AC300 and B300K batteries utilize LiFePO4 technology, offering an extended lifespan of over 3500+ cycles, retaining approximately 80% of their original capacity. This is significantly longer than conventional battery types.

- Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- Avoid exposing the unit to water or excessive humidity.
- Regularly clean the exterior with a dry, soft cloth. Ensure ventilation ports are clear of dust and debris.
- For long-term storage, it is recommended to discharge the unit to about 50% and recharge every 3-6 months to maintain battery health.

10-YEAR LIFESPAN

6X

Longer*



* After 3500+ cycles, the LFP battery remains around 80% of its original capacity and lasts 6-8 times longer than conventional ones.

Figure 7: 10-Year Lifespan of the LiFePO4 Battery.

5. TROUBLESHOOTING

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

- **No Power Output:** Ensure the AC/DC output buttons are activated on the display. Check all cable connections for looseness.

- **Charging Issues:** Verify that the charging cable is securely connected to both the unit and the power source. Check the input voltage and power on the display (Data > Inverter&Charger Info > PV Input/Grid Input). Ensure solar panels are receiving adequate sunlight.
- **Overload Protection:** If the unit shuts down, it may be due to an overload. Disconnect some devices and restart the unit.
- **Display Errors/Alarms:** Refer to the 'Alarm History' section in the Data menu for specific error codes and their meanings.

If problems persist, please contact BLUETTI customer support for assistance.

6. SPECIFICATIONS

Feature	Specification
Brand	BLUETTI
Model Number	AC300+2B300K
Item Weight	177.6 pounds
Product Dimensions	20.5 x 12.5 x 14.4 inches
Power Source	Solar Powered
Voltage	120 Volts (AC)
Wattage	6144 Watt-hours
Special Feature	Portable
Included Components	15A AC charging cable, 2 B300K expansion batteries(shipped separately), BLUETTI AC300 power station, DC charging cable, car charging cable
Warranty Description	4-year Warranty
Connector Type	USB Type C

7. WARRANTY AND SUPPORT

7.1 Product Warranty

The BLUETTI Solar Generator AC300 & 2 B300K Expansion Batteries come with a **4-year Warranty**. Please retain your proof of purchase for warranty claims.

7.2 Customer Support

For any questions, technical assistance, or warranty inquiries, please contact BLUETTI customer support. Visit the official BLUETTI website for contact details and further resources.

SAFETY IS TOP PRIORITY

BLUETTI adopts ultra-safe LiFePO₄ battery cells and premium BMS tech, more reliable and durable.



Figure 8: Safety is a Top Priority with BLUETTI's LiFePO₄ battery technology.



PERFECT AFTER-SALE SERVICE

Widespread sales and after service networks, feel free to contact us should you have any questions.

Figure 9: BLUETTI offers comprehensive after-sale service and support.

Related Documents - AC300+2B300K

 	<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 EB55</p> <p>User Manual</p> 	<p>BLUETTI EB55 Portable Power Station User Manual</p> <p>User manual for the BLUETTI EB55 portable power station, featuring 537Wh LiFePO4 battery, 700W AC outlets, 100W Type-C, and solar generator capabilities for outdoor and emergency use.</p>
<p>B300K Portable Power Station</p> <p>User Manual v1.0</p> <p><small>Inspect the packaging for damage before use. Please refer to the user manual for more details. Responsible for ensuring an effective and safe user experience.</small></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>

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Regolazione in modalità per aver tutti
gli usi per la B300K
Regolazione in modalità per aver tutti
gli usi per la B300K
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[BLUETTI B300K Portable Power Station User Manual](#)

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.