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## BLUETTI AC200PL

# BLUETTI AC200PL Solar Generator with 200W Solar Panel Instruction Manual

Model: AC200PL | Brand: BLUETTI

## 1. INTRODUCTION AND OVERVIEW

The BLUETTI AC200PL Solar Generator is a robust portable power station designed for various applications, including camping, off-grid living, and home backup during power outages. This kit includes the AC200PL power station and a 200-watt foldable solar panel, offering a comprehensive solution for your power needs.

Key features include a 2304Wh LiFePO4 battery, capable of delivering 2400W AC output with a 3600W power lifting capability. It supports multiple charging methods and provides various output ports to power a wide range of devices.

# Enhanced Performance Beats All

## Power most of RV appliances



**2.3** Hours  
Refrigerator  
(800W)



**1.9** Hours  
Microwave  
(1000W)



**1.4** Hours  
Lawn Mower  
(1300W)



**1.3** Hours  
Dishwasher  
(1400W)



Figure 1: BLUETTI AC200PL Solar Generator with 200W Solar Panel in use outdoors.

The AC200PL utilizes LiFePO4 batteries, known for their durability with over 3000 life cycles, ensuring a long lifespan. An advanced Battery Management System (BMS) is integrated to prevent common issues such as overcharging and short circuits, enhancing safety without compromising performance.

Video 1: Overview of the BLUETTI AC200L Power Station, highlighting its features and applications for home or travel.

## 2. SETUP

Before initial use, ensure all components are present as listed in the included components section. Place the AC200PL on a stable, flat surface. For solar charging, unfold the 200W solar panel and position it to maximize sun exposure. Connect the solar panel to the AC200PL using the provided solar charging cable.

# Replenish Energy Efficiently

## Redefining the 2kWh products' charging speed

      
AC Charging PV Charging Car Charging AC+PV Charging Generator

**60Min** |   
Max. 2400W Input



Figure 2: Setting up the BLUETTI 200W foldable solar panel for optimal sun exposure.

For AC charging, connect the AC charging cable to the unit and then to a standard wall outlet. For car charging, use the provided solar/car charging cable to connect to your vehicle's 12V port.

Video 2: Demonstration of setting up the BLUETTI AC200L Power Station with a PV200 Solar Panel.

### 3. OPERATING INSTRUCTIONS

To power on the AC200PL, press and hold the main power button until the display illuminates. The intuitive touchscreen display provides real-time information on battery status, input/output wattage, and estimated run/charge times. Individual output sections (DC, USB, AC) can be activated or deactivated via dedicated buttons on the control panel.



Figure 3: Detailed view of the AC200PL's control panel and display interface.

The unit can also be controlled and monitored remotely using the BLUETTI app via Bluetooth or Wi-Fi. This allows for real-time status checks, parameter configuration, and firmware updates.

Video 3: User demonstration highlighting the features and operation of the BLUETTI AC200L.

## 4. CHARGING THE AC200PL

The AC200PL supports multiple charging methods:

- **AC Charging:** With a maximum 2400W AC input, the AC200PL can charge from 0-80% in approximately 60 minutes.
- **Solar Charging:** Up to 1200W solar input allows the AC200PL to be fully charged in 1.9-3.8 hours, depending on sunlight conditions. The included 200W solar panel can replenish the generator from 0-80% in 9.2-18.4 hours.
- **Car Charging:** Recharge the unit on the go via your vehicle's 12V car lighter port.
- **Dual Charging:** Combine AC and solar input for faster charging, reaching full capacity in approximately 1 hour with a max 2400W input.



Figure 4: AC charging of the BLUETTI AC200PL.

Video 4: Demonstration of the BLUETTI Charger 1 for road trip charging.

## 5. OUTPUT PORTS

The AC200PL is equipped with a variety of output ports to meet diverse power requirements:

- **AC Outlets:** 4 x 2400W AC outlets (with 3600W Power Lifting capability for high-wattage appliances).
- **RV Output:** 1 x 30A TT30 port for RVs.
- **DC Output:** 1 x 48V/8A DC port.
- **Car Port:** 1 x 12V car port.
- **USB-C:** 2 x 100W Power Delivery (PD) USB-C ports.
- **USB-A:** 2 x 15W USB-A ports.

# Hassle-Free Carrying

Foldable | Portable



**23.9" × 23.0" × 1.7"**

Folded size



**17.2 lbs**

Weight



Figure 5: Overview of the AC200PL's diverse output ports.

The Power Lifting feature allows the unit to temporarily handle devices with higher starting wattage, up to 3600W, making it suitable for most home appliances like kettles and space heaters.

Video 5: Testing the BLUETTI AC200L's ability to run a window air conditioner.

## 6. BATTERY EXPANSION

The BLUETTI AC200PL's capacity can be expanded from its base 2304Wh up to an impressive 8448Wh by connecting compatible expansion batteries. This modular design allows users to customize their power storage based on their specific needs, from extended camping trips to comprehensive home backup solutions.



Figure 6: The AC200PL is designed for expandable battery capacity.

Compatible expansion batteries, such as the B300K, can be easily connected to the AC200PL to significantly increase its total energy capacity, providing longer runtimes for all your devices and appliances.

Video 6: Demonstrating the BLUETTI B300K expansion battery with the AC200L Power Station.

## 7. SAFETY FEATURES

The BLUETTI AC200PL is built with multiple safety features to ensure reliable and secure operation:

- **LiFePO4 Battery:** Utilizes durable and safe LiFePO4 batteries with 3000+ cycles, offering a 10-year lifespan.
- **Advanced BMS:** The integrated Battery Management System protects against overcharging, over-discharging, overcurrent, and short circuits.
- **UPS Backup:** Provides Uninterruptible Power Supply (UPS) functionality with a transfer time of less than 10ms, ensuring seamless power transition during outages for sensitive electronics.
- **Circuit Protector:** An external circuit protector is included for additional safety.



## PERFECT AFTER-SALE SERVICE

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

Figure 7: Internal safety mechanisms and robust construction of BLUETTI power stations.

## 8. MAINTENANCE

To ensure the longevity and optimal performance of your BLUETTI AC200PL, 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 openings are unobstructed.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is charged to approximately 50-80% and recharge every 3-6 months to prevent deep discharge.
- **Battery Health:** For optimal battery health, it is recommended to fully discharge and recharge the unit every 3 months.
- **Avoid Moisture:** Protect the unit from moisture and water exposure.

## 9. TROUBLESHOOTING

If you encounter any issues with your AC200PL, consider the following troubleshooting steps:

- **Unit Not Powering On:** Ensure the battery is charged. If the unit has been stored for a long time, it may require a full charge.
- **No Output from Ports:** Verify that the specific output section (DC, USB, AC) is activated via its respective button on the control panel or through the BLUETTI app. Check that the connected device is within the unit's power limits.
- **Charging Issues:** Ensure all charging cables are securely connected. For solar charging, confirm the solar panels are receiving adequate sunlight and are correctly oriented. Check the input voltage and current on the display.
- **Overload Protection:** If an overload warning appears on the display, disconnect the device causing the overload. The unit's BMS will automatically shut down outputs to protect the system. Reduce the load and restart the output.
- **App Connectivity:** Ensure Bluetooth or Wi-Fi is enabled on your device and the AC200PL. Follow the app's instructions for pairing.

For persistent issues, refer to the detailed troubleshooting section in the full user manual or contact BLUETTI customer

support.

## 10. SPECIFICATIONS

Feature	Specification
Brand	BLUETTI
Model Name	BLUETTI AC200PL with 200W Solar Panel
Battery Capacity	2304Wh LiFePO4 (Expandable to 8448Wh)
AC Output	4 x 2400W (3600W Power Lifting)
DC Output	1 x 48V/8A, 1 x 12V/10A (Car Port), 1 x 30A TT30 (RV)
USB Output	2 x 100W USB-C PD, 2 x 15W USB-A
AC Input	Max 2400W (0-80% in 60 min)
Solar Input	Max 1200W (0-100% in 1.9-3.8 hours)
UPS Backup Time	≤10ms
Battery Cycles	3000+ to 80% capacity
Item Weight	72 Pounds
Product Dimensions	16.5"L x 11"W x 14.4"H
Material	Metal (Steel/Aluminum), Plastic, LiFePO4

## 11. WARRANTY AND SUPPORT

The BLUETTI AC200PL Solar Generator comes with a 5-year warranty, ensuring peace of mind and reliable performance. For any questions, technical assistance, or warranty claims, please contact BLUETTI customer support directly. Their widespread sales and after-service networks are available to assist you.



Figure 8: BLUETTI customer support is available for assistance.

