

AC200L

Portable Power Station

BLUETTI App User Manual



Thank You

Thank you for making BLUETTI a part of your family.

From the very beginning, BLUETTI has tried to stay true to a sustainable future through green energy storage solutions while delivering an exceptional eco-friendly experience for our homes and our world.

That's why BLUETTI makes its presence in 100+ countries and is trusted by millions of customers across the globe.



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The contents of this manual are subject to change without notice. Please get the latest version from: <https://www.bluettipower.com/pages/user-guides>

If you have any questions or concerns about this manual, please contact BLUETTI support for further assistance.

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1.Introduction

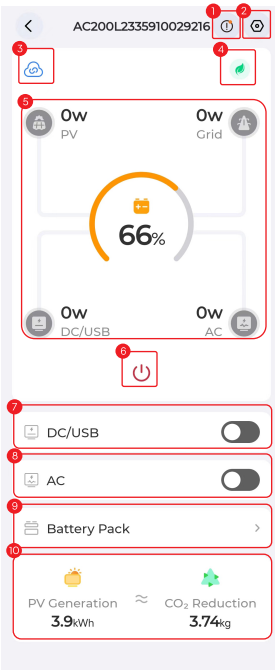
To effectively keep track of and control your AC200L portable power station, begin by downloading and installing the user-friendly BLUETTI App. Once installed, connect the App to your device. For step-by-step instructions on how to register, log in, configure your network, and connect your device, simply refer to the BLUETTI App User Manual. This manual is designed to help you easily monitor, manage, and perform various operations for your AC200L.

2.Real-time Monitoring

The App shows you important details like the current battery level, charging and discharging status, output frequency, and other key metrics so you can keep track of how your AC200L is doing. Additionally, you can receive real-time alerts in case of any faults or alarms, enabling immediate action to ensure your AC200L continues to perform optimally.

2.1 Operation Status

After connecting the App to your AC200L, you can check its basic operation status, including charging/discharging status, battery pack, and more.



Tap to check the current alarm(s) and alarm history.



Tap to check and change system settings, like Firmware Upgrade, Advanced Settings, Charging Mode, Working Mode, Device Sharing, etc.



Bluetooth / WiFi connection successful.



Charging in Turbo / Silent / Standard Mode.



Please refer to Charging / Discharging Status for details.



Tap to power off the AC200L.

Note: The AC200L can only be powered on with the power button on the AC200L unit.



Tap to turn on the DC output and power compatible devices.

⑧ AC Power Button

Tap to turn on the AC output and power compatible devices.

⑨ Battery Pack

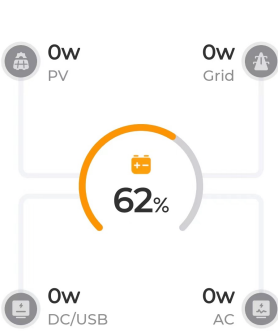
Tap to check the information of the battery pack. Please refer to Battery Pack Status for details.


⑩ PV Generation & CO₂ Reduction


Check out the total solar energy generated and carbon emissions saved by the AC200L over time.


2.2 Charging / Discharging Status


It shows how the AC200L is charging and discharging. The animation gives you a simple way to understand how energy is flowing.




 PV generation. It shows how much power the AC200L is drawing from your rooftop solar or solar panel(s). Tap to view more details.

 Grid charging. It shows how much power the AC200L is drawing from the grid. Tap to view more details.




 62% SoC (State of Charge). It indicates the remaining battery level.

 DC load consumption. It shows how much DC power is supplying to your household appliance.






 AC load consumption. It shows how much AC power is supplying to your household appliance. Tap to learn more about where the power is going.

2.3 Battery Pack Status

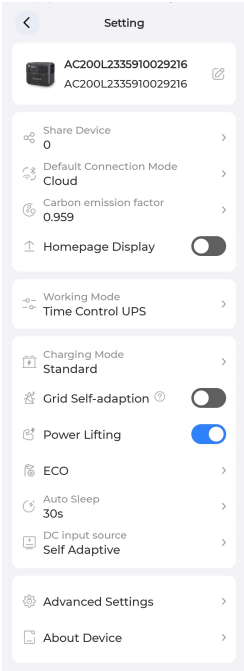
It shows the status of connected battery packs. Tap **Battery Pack** in the operation status page and you'll be directed to the **Battery Information** page.


Battery Information	
Pack1	
Model	CA02L0
SN	2335910029216
SoC	62%
BMS Status	Standby
Battery Parallel	
Fault/Alarm	

Tap the pack you want to check, e.g. **Pack 1** to view its operating status.


Item	Description
Pack 1	Battery pack name. The displayed  icon indicates that the battery pack is connected.
SoC	State of Charge. The remaining battery level.
BMS Status	The battery status includes three types: Charging: The battery pack is charging. Discharging: The battery pack is discharging. Standby: The battery is not connected to input or output sources, indicating no ongoing charging or discharging activities.
Battery Parallel	 means that the battery pack is connected in parallel with AC200L.  means that it's not connected in parallel with AC200L.
Alarm	 means that the AC200L is operating well.  means that an alarm occurred. Tap it to view the details.

3. Device Management



After connecting the device, on the operation status page, tap  to access the **Setting** page. You can optimize your power usage by customizing various settings, including the Network settings, Device Sharing, Working Mode, Charging Mode, and other relevant configuration.

3.1 Settings


- **Device Name:** Tap  to modify.
- **Network settings:** To configure the WiFi network. Only available when you connect to the AC200L via Bluetooth.
- **Share Device:** Tap to share your AC200L.
- **Default Connection Mode:** To modify the device's default connection mode. Once saved, whenever you tap on the device image on the **My Device** page, it'll automatically connect using the chosen mode.

Note: The App is programmed to use the Cloud as the default connection mode.


- **Carbon emission factor:** To calculate your reduced carbon emission.

Note: Reduced carbon emission (kg) = Solar power generation (kWh) × Carbon emission factor


- **Working Mode:** Tap to set the UPS Mode.
- **Charging Mode:** The AC200L supports three AC charging modes:

Turbo Charging: 0%-80% charge in about 60 minutes. Ideal for quick charging.  symbol displayed in the upper center of the LED screen when enabled.

Standard Charging: fully charged in about 3 hours. Reduces battery wear and tear for long battery life.

Silent Charging: low operation noise (<45dB). Offers a quiet, low-power operation.  symbol displayed in the upper right corner of the LED screen when enabled.

Note: The AC200L is set to charge in Standard mode by default.

- **Grid Self-adaption Mode:** To provide a stable and continuous grid charging.
- **Power Lifting Mode:** To handle resistive loads up to 3,600W.  icon displayed in the lower right corner of the LED screen when enabled.

Note: This mode is only suitable for resistive loads with a power rating between 2,400W-3,600W.

- **ECO:** Please refer to the ECO Mode for details.
- **Auto Sleep:** Choose screen sleep time (30s, 1min, 5min, always on). The default screen sleep time is 1minute.
- **DC Input Source:** Choose from three options as appropriate:
- **Self-Adaption:** The AC200L automatically detects the source and categorizes it as PV (solar) or other. When connected to a solar source, it activates the MPPT charge controller to optimize charging efficiency.
- **PV:** Select this mode when charging from a solar source, including third-party options, to maximize efficiency.
- **Other:** Select this mode for non-PV sources.
- **Firmware Upgrade:** Tap to upgrade your device. Only available when you connect to the AC200L via Bluetooth.

Note: For a stable connection, keep your phone and AC200L close together (recommended range: 5m).

- **Advanced Settings:** To check and change more settings.
- **About Device:** The information about AC200L and other related devices.
- **Unbind:** Tap to unbind your BLUETTI account with the AC200L.

3.2 UPS Mode

With the UPS mode enabled, the AC200L can provide uninterrupted power to your essential appliances during a power outage. Through the BLUETTI App, you can choose from four different UPS modes to meet your specific needs.

Note: Disable the Grid Self-adaption Mode when using the UPS function.

• Standard UPS Mode

Ideal for areas with an unreliable power grid. The AC200L and expansion batteries (if any) are always charged using available solar or grid power. When the battery is fully charged, the grid can bypass AC200L and power your loads directly. In the event of a grid failure, the AC200L seamlessly takes over to keep your appliances running without interruption.

• Time Control UPS Mode

Suitable for areas with fluctuating electricity prices based on time-of-use. You can set State of Charge (SoC) limits and specific charging and discharging schedules to optimize cost savings.

1. SoC Setting: SoC Low value and SoC High value.

SoC Low: It's set to 20% by default. When the AC200L is connected to the power grid, it'll stop supplying power to your appliances once the battery level drops below 20%. However, if there is no power grid available, the AC200L will continue to power your appliances until the battery level reaches 0%.

SoC High: It's set to 80% by default. This means that the AC200L will stop charging from the grid when the battery level reaches 80%, and seamlessly switch to solar charging for the remaining capacity.

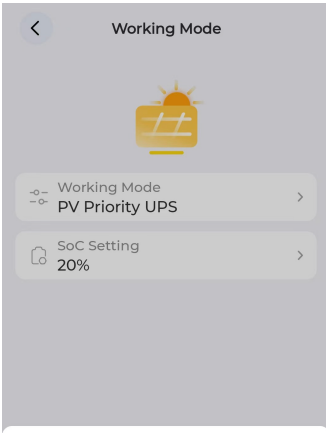
2. Manage Charge/Discharge Time:

Charging Time: Schedule the AC200L to charge during off-peak hours when electricity costs are lower.

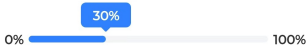
Discharge Time: Schedule the AC200L to supply your appliances during peak hours when electricity costs are higher.

• PV Priority UPS Mode

Suitable for areas with abundant solar resources and stable grid. In this mode, the AC200L primarily charges from solar energy to save electricity. You can also set a specific State of Charge (SoC) threshold. As the AC200L charges from the grid and reaches the desired SoC level, it seamlessly transitions to solar charging for the remaining capacity.



SoC Setting



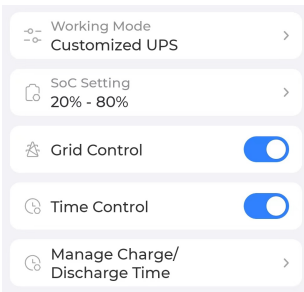
OK

• Customized UPS Mode

In this mode, you can create personalized schedules for charging and discharging, set battery SoC limits, and control the grid charging switch.

When the Grid Control is off and the battery retains some charge, the AC200L won't use grid power to charge. However, if the battery's charge drops to 0%, it'll automatically charge from the grid until it reaches around 4% SoC for prolonged battery life.

Note: The charge/discharge schedule, SoC limits, and grid charging availability also take effect in Time Control UPS Mode.



3.3 ECO Mode

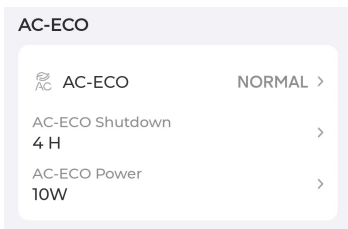
To help you save power and extend battery life, you can tap **ECO** on the **Setting** page to turn on the ECO Mode.

AC-ECO

AC-ECO provides three options: Normal Mode, Deep Mode, and Off. The Normal Mode is enabled by default.

- AC-ECO Mode: In this mode, if the AC power output falls below a certain power level for a set period of time, the AC power will automatically turn off. To resume the AC output, turn on the AC Power Button.

Note: It's recommended to set the AC-ECO shutdown time to 4 hours and the power limit to 20W.



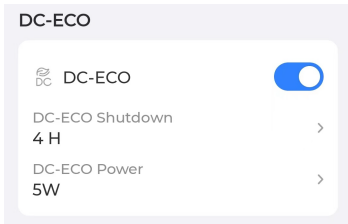
- AC-ECO Deep Mode: In this mode, if no devices are connected to the AC output, the AC200L will enter sleep mode to save energy. When a device is connected, the AC200L will automatically wake up and supply power to the device.

- AC-ECO Off: Disable the AC-ECO Mode.

DC-ECO

In this mode, if the DC power output falls below a certain power level for a set period of time, the DC power will automatically turn off. To resume the DC output, turn on the DC Power Button.

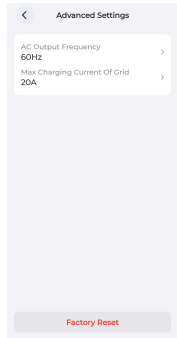
Note: It's recommended to set the DC-ECO shutdown time to 4 hours and the power limit to 10W.



Note: When the AC-ECO or DC-ECO is enabled, the **ECO** icon will be displayed at the top of the LED screen.

3.4 Advanced Settings

Tap **Advanced Settings** at the bottom of the **Setting** page to check and change more settings, including AC Output Frequency, Grid Max. Input Current, and Factory Reset, etc.



- AC Output Frequency: Choose 60Hz or 50Hz for the AC200L.
- Grid Max. Input Current: If the grid current doesn't align with the set current, adjust it in the BLUETTI App. A single AC200L unit allows a maximum grid input current of up to 20A.

Note: To set a value higher than the default 15A, access **Advanced Settings** and enter the eight-digit password provided by BLUETTI support to make the necessary adjustments.

- Factory Reset: To factory reset all the settings.

4. Practices


4.1 Device Control in Offline Mode

If you haven't registered your AC200L yet, open the App and tap **OFFLINE MODE** to connect directly. Select it (name starts with AC200L) from the **Available Devices** list on the **Offline Mode** page.

Note: If you can't find your AC200L, get closer and **Click to refresh** the list.

If you've already logged in, tap **Bluetooth** on the **Home** page. Select your AC200L from the **Available Devices** list on the **Bluetooth** page. After a successful connection, you can check and change the settings on the operation status page.

4.2 Device Sharing


1. Bind and connect the device. Please refer to **BLUETTI App User Manual** for details.
2. Tap  in the upper right corner of the operation status page.
3. Tap **Share Device**, and the App will jump to the **BLUETTI Share** page.
4. Tap **Yes** to generate a QR code.

Note: The generated QR code will be valid for 10 minutes. You can share the AC200L with up to 5 accounts at the same time.

4.3 Firmware Upgrade

Note:

- Only available when you connect to the AC200L via Bluetooth.
- For a stable connection, keep your phone and AC200L close together (recommended range: 5m).
- During the upgrade, you cannot perform charging, discharging, or any other operations.
- Do not exit the App until done.

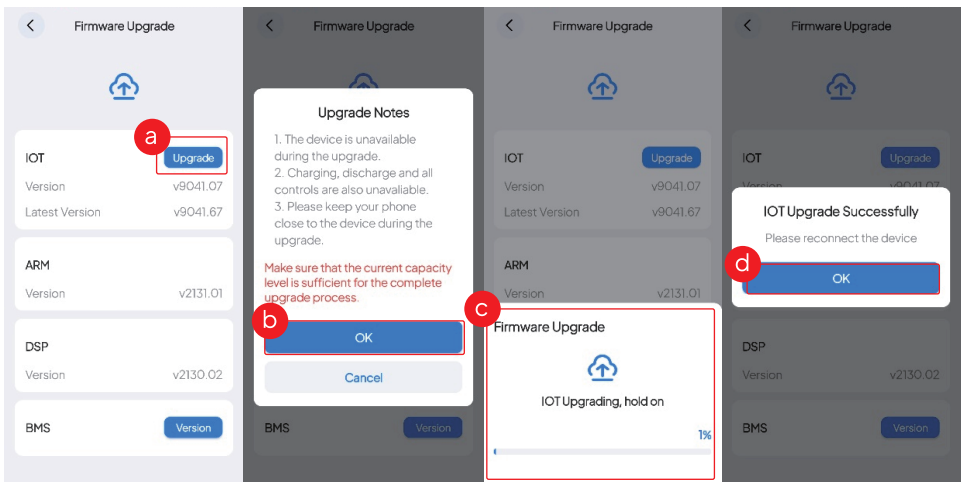
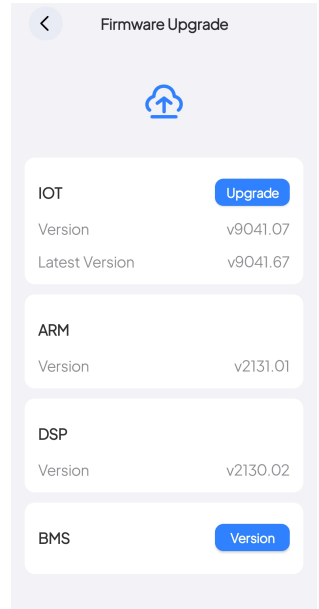
1. Log in to the App, and connect the device via Bluetooth.
2. Tap  in the upper right corner of the operation status page.
3. Tap **Firmware Upgrade** on the **Setting** page.
4. The App will jump to the **Firmware Upgrade** page.
5. Select the IoT, ARM, DSP, or BMS upgrade option.

IoT, ARM, and DSP Upgrade

The upgrade steps are the same for IoT, ARM, and DSP. Here's the process using IoT as an example.

Note: If the **Upgrade** button is available, you can upgrade the software to the latest version.

- a. On the **Firmware Upgrade** page, tap **Upgrade** on the right side of the IoT.
- b. Tap **OK** in the **Upgrade Notes**.
- c. The upgrade process begins, and the process bar indicates the status.
- d. Once the upgrade is completed, tap **OK** in the pop-up.



BMS Upgrade

Note: If you have multiple battery packs, please upgrade each one separately.

- On the **Firmware Upgrade** page, tap **Version** on the right side of the BMS.
- Tap **Check For Update** under the battery pack information. If no new version is found, a note will indicate that there is no available firmware update for the battery pack.
- When a new BMS firmware version is detected, tap **OK** in the pop-up.

New battery pack firmware available, do you want to upgrade?
Latest Version: v1043.99

OK

Cancel

- Tap **OK** again in the pop-up shown below.

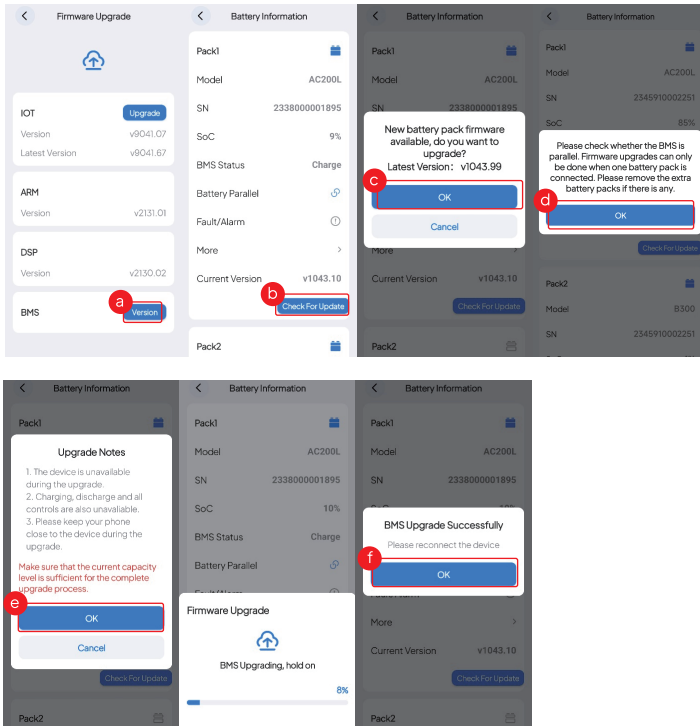
Note: While upgrading one B300, make sure to unplug the other if you have two.

Please check whether the BMS is parallel. Firmware upgrades can only be done when one battery pack is connected. Please remove the extra battery packs if there is any.

OK

- Tap **OK** in the **Upgrade Notes**.

- Once the BMS upgrade is completed, tap **OK** in the pop-up.





Just Power On