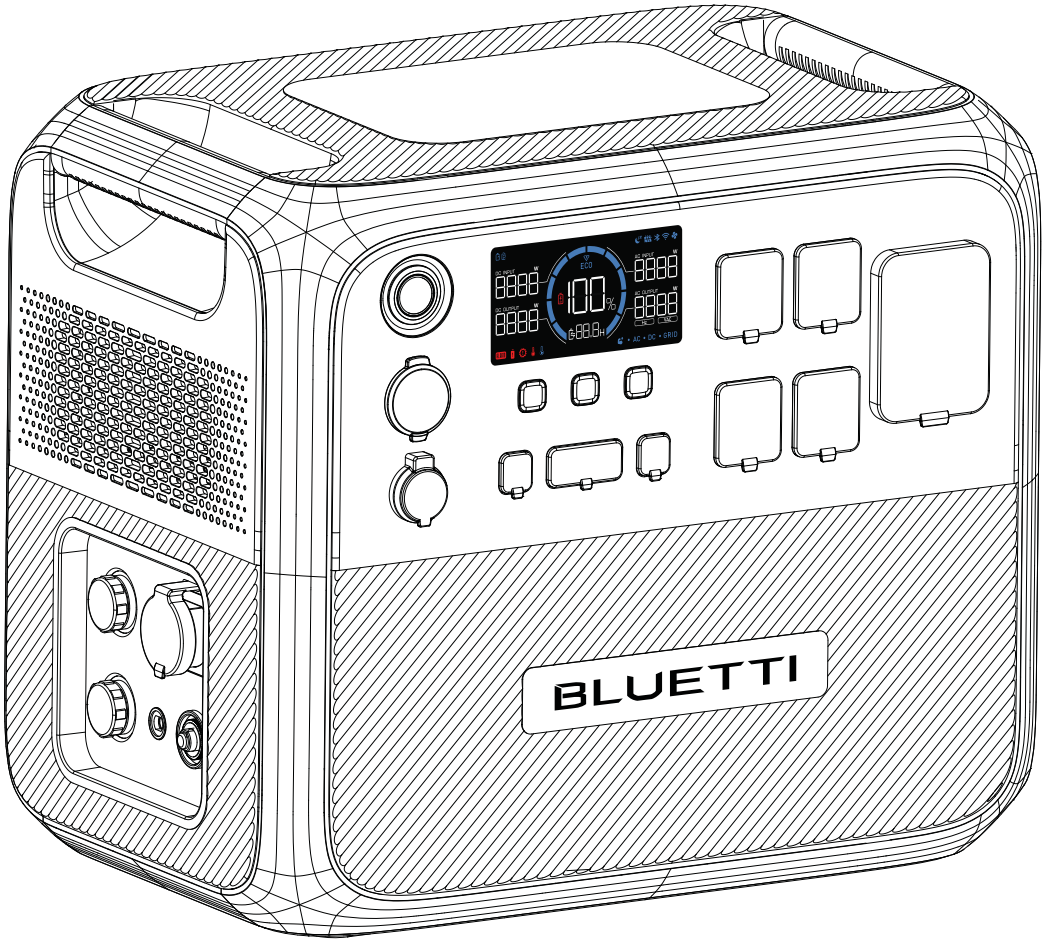
AC200L
Portable Power Station

User Manual V2.0

Please read this manual carefully before use and keep it for future reference.

BLUETTI



⚠ Warning

1. Charge the unit before first use.
2. Do not use solar panels with open circuit voltage higher than 145VDC. Solar input voltage range for the unit is 12V-145VDC.
3. Charge the unit immediately when the SoC drops below 5%. If the SoC drops to 0, power off the unit and charge it for at least 30 minutes before restarting.
4. The unit is for off-grid use only. Do not connect its AC output to the grid.
5. If not used for more than 3 months, charge the unit to 40%-60% SoC and store it with the power off. For optimum battery life, discharge and charge the unit every 3 months.

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 official BLUETTI website.

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

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1. Safety Instructions

Read this manual for instructions on the proper use and safety information for the product. The safety instructions provided herein are for illustrative purposes that include but are not limited to those listed in this manual. Actual operation shall comply with all applicable safety standards. If you have any questions, feel free to contact BLUETTI support or your local BLUETTI dealers.

1.1 Statement

To ensure a safe operation, it's crucial to observe and adhere to the following conditions:

· Always operate or store the product in the conditions specified in this manual.

· Avoid unauthorized disassembly, component replacement, or modification of software codes.

⚠ BLUETTI shall not be liable for damages resulting from the following circumstances:

· Force majeure events such as earthquakes, fires, storms, floods, or mudslides.

· Damage caused by the customer's own transportation.

· Damage resulting from inadequate storage conditions as specified in the manual.

· Damage caused by customer negligence, improper operation, or intentional actions.

· System or hardware damage caused by third parties or customers, including but not limited to improper handling and installation not in accordance with the instructions in this manual.

· Usage of the product with devices that require a high-performance Uninterruptible Power Supply (UPS), including but not limited to data servers, workstations, medical equipment, and other similar devices.

1.2 General Requirements

INSTRUCTIONS PERTAINING TO RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

IMPORTANT SAFETY INSTRUCTIONS

WARNING:

When using this product, basic precautions should always be followed, including the following:

· Read all the instructions before using the product.

· To reduce the risk of injury, close supervision is necessary when the product is used near children.

· Do not put fingers or hands into the product. And do not insert foreign objects into any

ports of the product.

• Use of an attachment not recommended or sold by the manufacturer may result in a risk of fire, electric shock, or injury to persons.

• To reduce the risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the product.

• Do not use a battery pack or appliance that is damaged or modified, as they may exhibit unpredictable behavior resulting in fire, explosion, or personal injury.

• Do not operate the product with a damaged cord or plug, or a damaged output cable.

• Do not attempt to replace the internal battery or any other component of the product by anyone other than authorized personnel. There are no end-user serviceable components. Do not disassemble the product, take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.

• To reduce the risk of electric shock, unplug the product from the outlet before attempting any instructed servicing.

• WARNING - RISK OF EXPLOSIVE GASES. To reduce the risk of battery explosion, follow these instructions and those published by the battery manufacturer and manufacturer of any equipment you intend to use in the vicinity of the battery. Review cautionary markings on these products and engines.

• PERSONAL PRECAUTIONS

a. Wear complete eye protection and clothing protection. Avoid touching eyes while working near the battery.

b. Never smoke or allow a spark or flame in the vicinity of the battery or engine.

c. Be extra cautious to reduce the risk of dropping a metal tool onto the battery. It might spark or short-circuit the battery or other electrical parts which may cause an explosion.

• When charging the internal battery, work in a well ventilated area and do not restrict ventilation in any way.

• Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

• Do not expose the product to fire or excessive temperature. Exposure to fire or temperature above 80°C (176°F) may cause an explosion.

• Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that safety is maintained.

• Do not stack anything on top of the product while in storage or while in use. Do not move the product while operating as vibrations and sudden impacts may lead to poor connections to the hardware inside.

• In case of fire, use only a dry powder fire extinguisher appropriate for the product.

• WARNING - RISK OF ELECTRIC SHOCK. Never use the product to supply power tools to cut or access live parts or live wirings, or materials that may contain live parts or live wirings inside, such as building walls, etc.

1.3 Grounding Instructions

The product is designed for portable use and typically does not require earth grounding. However, if you connect it to the power grid, it's important to ensure proper grounding for safety. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with an AC power cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING - Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product - if it does not fit the outlet, have a proper outlet installed by a qualified electrician.

1.4 Handling Requirements

During transportation or storage, take care to avoid dropping, violently impacting, or tilting the product as it may result in internal damage. If necessary, use mechanical assistance such as carts or adjustable height workbenches to ensure safe handling.

Recommended number of people based on the weight of product

Weight	Number of people
＜18kg (39.7lbs)	1
18kg～32kg (39.7lbs～70.5lbs)	2
32kg～55kg (70.5lbs～121.3lbs)	3
＞55kg (121.3lbs)	4 or a cart

1.5 Storage Instructions

• When the SoC drops to 5%, please charge the product immediately.

• Before storing the product, charge it to 40% to 60% SoC to keep it in optimal condition. In addition, power off the unit and disconnect all electrical connections from it.

· Store the product in a cool and dry place, keeping it away from flammable or combustible materials and gases.

· The product can be safely stored within a temperature range of -20°C to 45°C (-4°F to 113°F). However, if the storage duration exceeds one month, it's recommended to maintain an ideal storage temperature of around 30°C (86°F).

· Fully cycle the product every 3 months to maintain the battery's health. It's NOT recommended to store the unit for extended periods of time, as it may affect its performance and overall lifespan.

If the SoC drops to 0 (during storage or upon startup), take the following actions to safely restart the product:

· Shut down immediately.

· Charge within 48 hours.

· Keep it at an ambient temperature of 5°C to 35°C (41°F to 95°F) for 6 hours before charging. It's recommended to charge the product via an AC source. If charging via solar energy, ensure that your solar system provides an output of more than 100W.

⚠ 📖 The symbol displayed is intended to remind you to read the instructions in the literature accompanying the product before operation and maintenance.

· Connect the product to a socket-outlet that has an earthing connection using the power cord provided.

· The socket-outlet should be installed near the product and easily accessible for safety purposes.

· Never dispose of a battery by throwing it into fire or a hot oven, or by mechanically crushing or cutting it, as these may cause it to explode.

· Avoid leaving batteries in extremely high-temperature environments, as this can result in an explosion or the leakage of flammable liquid or gas.

· The battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas.

· Attention should be drawn to the environmental aspects of battery disposal.

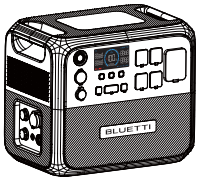
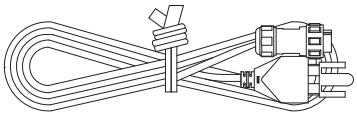
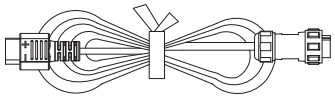
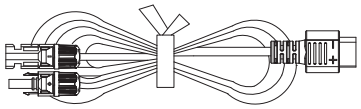
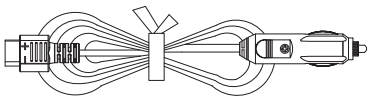
· Please refer to the information on the exterior bottom enclosure for electrical and safety information before installing or operating the apparatus.

SAVE THESE INSTRUCTIONS

⚠ **BLUETTI shall not be liable for any equipment damage caused by the violation of the above instructions.**

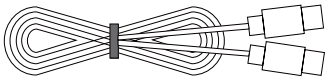
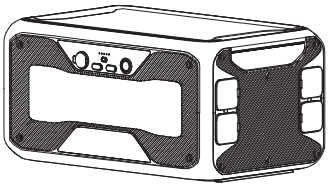
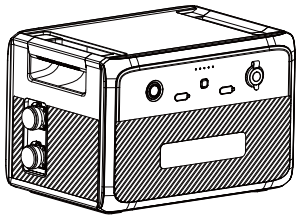
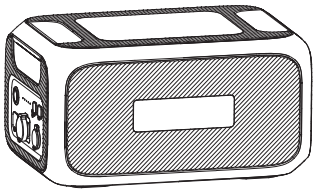
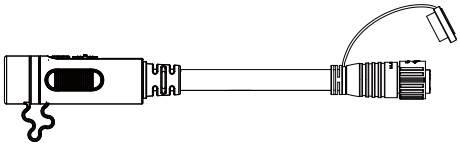
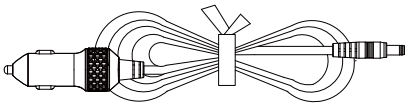
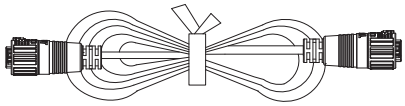
2. Packing List

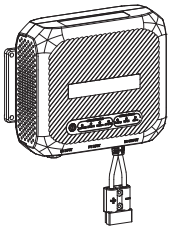
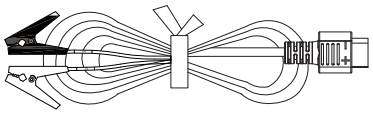
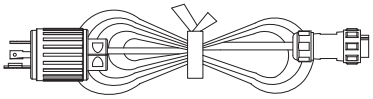
Standard Accessories

Item	Picture	Qty.
AC200L Portable Power Station		1
AC Charging Cable (15A)		1
DC Input Cable (Work with solar / car / lead-acid battery charging cable)		1
Solar Charging Cable		1
Car Charging Cable		1
Grounding Screws (M5 × 10)		1
Product Documentation		1
Warranty Card		1

Optional Accessories

(Available on the official BLUETTI website: https://www.bluettipower.com)

Item	Picture
USB-C to USB-C Cable (output)	
B300 Expansion Battery	
B210 Expansion Battery	
B230 Expansion Battery	
B210 Expansion Cable	
12V DC Power Cable (For 12V devices with DC5521 port, such as routers, cameras, etc.)	
48V DC Power Cable (for D40)	

D40 Voltage Regulator	
Lead-acid Battery Charging Cable (Charge the AC200L via a lead-acid battery)	
30A AC Charging Cable	

3. Product Introduction

Introducing the BLUETTI AC200L - a high-capacity power station that packs a powerful punch. With its impressive 2,048Wh capacity and 2,400W pure sine wave output, this powerhouse can effortlessly charge your laptop, run your fridge, and power your essential tools.

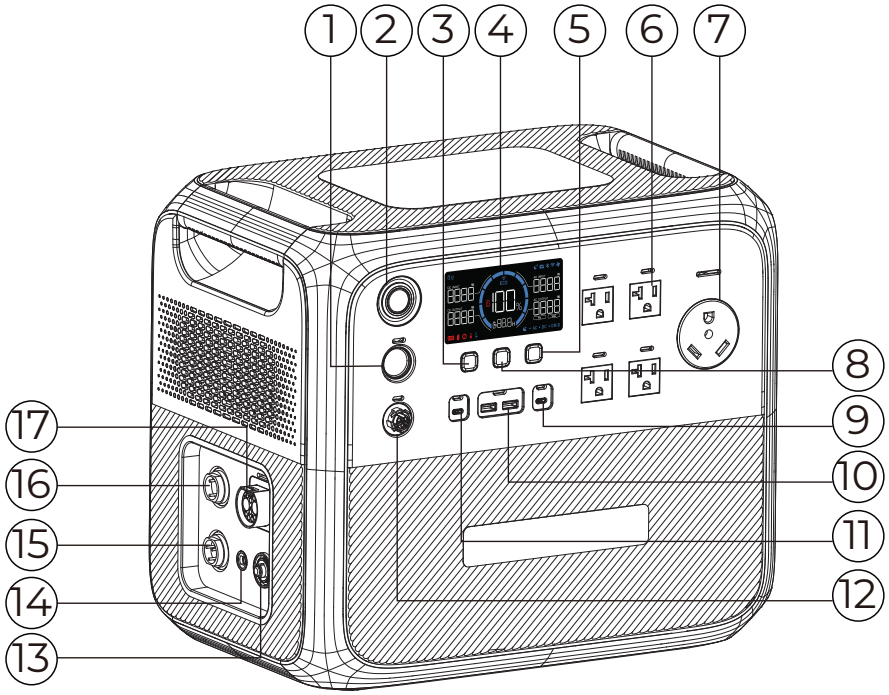
What sets the AC200L apart is its exceptional flexibility, allowing you to tailor it to your requirements. You have the option to link up with BLUETTI's expansion batteries - the B210, B230, and B300 - enabling you to expand your energy capacity according to your unique demands. By using two B300 units, you can elevate your total power capacity to a staggering 8,192Wh, making the AC200L the perfect companion for any power-intensive adventure.

Whether you're off-grid camping, carrying out fieldwork, or simply need a reliable backup for home power outages, the BLUETTI AC200L is your robust and trustworthy power solution. Power your life, wherever you are.

⚠ Danger:

Do not connect the AC output of AC200L to the grid.

4. Product Overview



① Cigarette Lighter Port

② Power Button

③ DC Power Button

④ LED Screen

⑤ AC Power Button

⑥ 20A AC Outlet

⑦ 30A AC Outlet

⑧ USB Power Button

⑨ USB-C Port

⑩ USB-A Port

⑪ USB-C Port

⑫ 48V DC Port

⑬ Circuit Breaker

⑭ Grounding Pole

⑮ AC Input

⑯ DC Input

⑰ Battery Expansion Port

5. Power ON / OFF

Attention:

Please place the unit on the platform firmly and stably.

· Power ON: Press the Power Button, the button lights up indicating that the AC200L is now on standby.

· Power OFF: Press and hold the Power Button for about 2 seconds to turn off the unit.

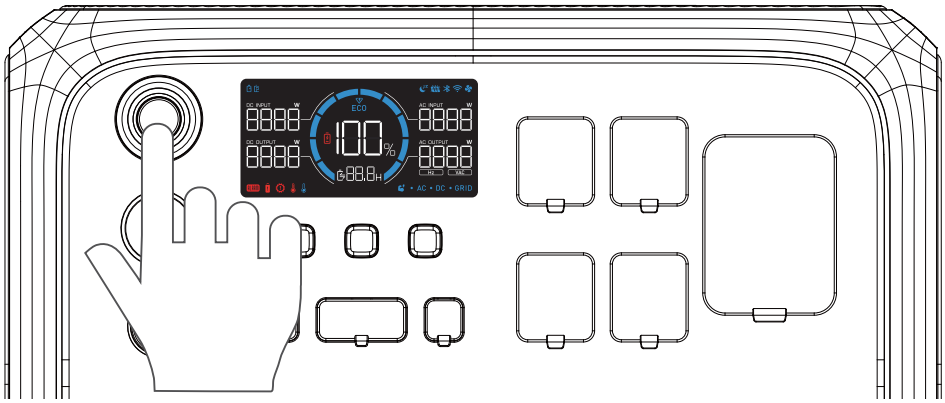
· AC ON / OFF: When the AC200L is on, press the AC Power Button to turn it on / off.

· DC ON / OFF: When the AC200L is on, press the DC Power Button to turn it on / off.

· USB ON / OFF: When the AC200L is on, press the USB Power Button to turn it on / off.

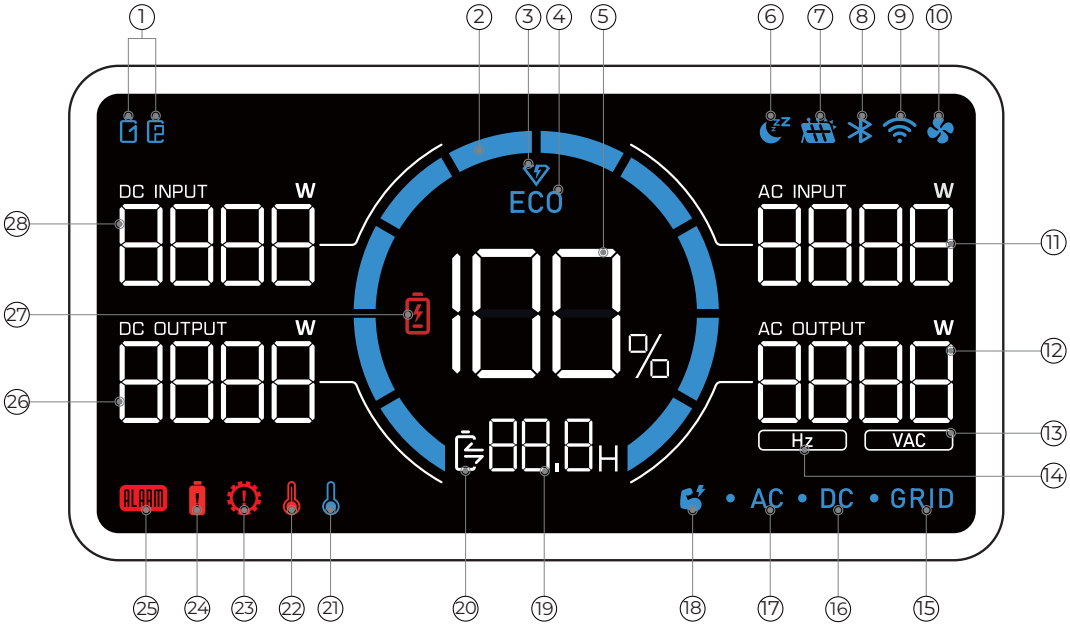
· Restart: Power off the AC200L first, then press the Power Button to restart.

Note: When the AC200L is on, you can activate the LED screen by interacting with any of the buttons.



6. LED Screen

The AC200L features an informative LED screen that offers easy access to all the essential information about the unit's status and performance. When you power on the unit, the LED screen lights up, and when you power off the unit, the screen turns off as well.



① Expansion Battery

② Charge / Discharge Progress

③ Turbo Charging

④ ECO Mode

⑤ Battery Capacity (SoC)

⑥ Silent Charging

⑦ DC Input

⑧ Bluetooth Connection

⑨ WiFi Connection

⑩ Fan Status

⑪ AC Input Power

⑫ AC Output Power

⑬ AC Output Voltage

⑭ AC Output Frequency

⑮ Grid Connection

⑯ DC Output

⑰ AC Output

⑱ Power Lifting Mode

⑲ Charge / Discharge Remaining Time

⑳ Charge / Discharge Status

㉑ Low Temperature Alert

㉒ High Temperature Alert

㉓ Overcurrent Alert

㉔ Overload Alert

㉕ Fault Alert

㉖ DC Output Power

㉗ Low Battery Alert

㉘ DC Input Power

LCD Instructions	
Startup	LCD lights up
Shutdown	LCD lights off
Each icon represents an attached expansion battery. The AC200L can display up to 2 battery icons.	
The bar increases during charging and decreases during discharging.	
The AC200L is charging in Turbo Charging Mode.	
The ECO Mode is enabled to save power.	ECO
The remaining battery capacity.	188%
The AC200L is charging in Silent Charging Mode.	
The AC200L is charging from a DC power source, such as solar panels, lead-acid batteries, etc.	
The AC200L connects to BLUETTI App via Bluetooth.	
The AC200L connects to BLUETTI App via WiFi.	
When it lights up, the fan is activated and working properly. If it flashes, there may be a problem with the fan.	
The real-time AC charging power.	AC INPUT W 8888
The real-time total AC output power.	AC OUTPUT W 8888
The real-time AC output voltage.	VAC
The real-time AC output frequency.	Hz
The AC200L is charging from the home grid.	GRID
The DC output is turned on.	DC
The AC output is turned on.	AC
The AC200L is operating in Power Lifting Mode.	
The remaining time of charging or discharging.	88.8H
: Charging : Discharging	
The temperature inside the unit is lower than -20°C (-4°F).	
The temperature inside the unit is higher than 70°C (158°F).	
The AC200L is drawing too much current, which can cause damage to the unit or any connected devices.	
The AC200L is overloaded.	
There's an issue with the AC200L, which may require troubleshooting or repair.	ALARM
The real-time DC output power.	DC OUTPUT W 8888
The SoC drops below 5%.	
The real-time DC input power.	DC INPUT VOLT W 8888

7. Charging

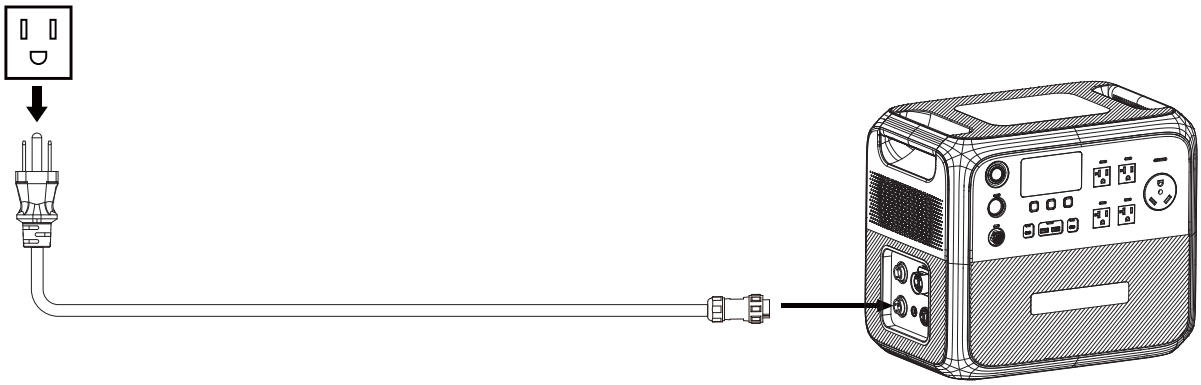
AC200L supports five charging methods: AC, solar, car, generator,and Lead-acid battery.

⚠ **Attention:**

- Double-check that all cables are firmly plugged in.
- Avoid getting the plug and socket wet to prevent any potential damage.

7.1 AC Charging

Plug the AC200L into a standard wall outlet and start charging. Once it's fully charged, the AC200L automatically stops charging to prevent overcharging. For a fast charge, you can enable Turbo Charging in the BLUETTI App, which allows for an 80% capacity in just 45 minutes at an ambient temperature of 25°C (77°F).



7.2 Solar Charging

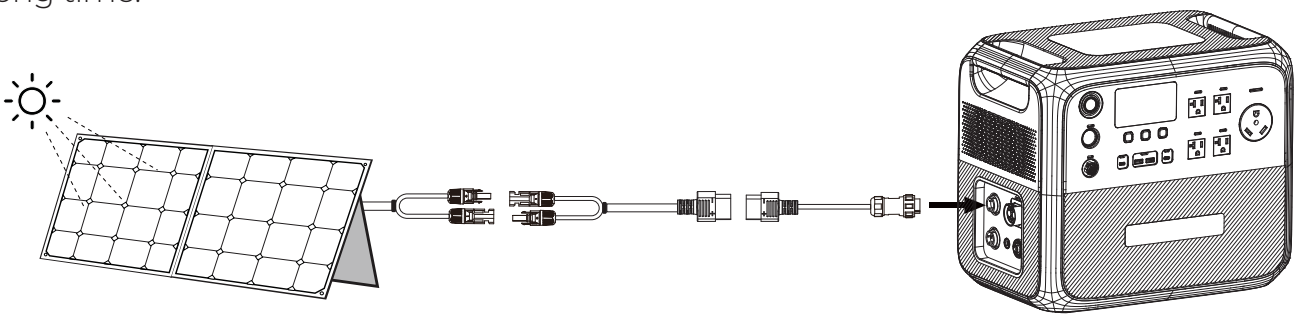
Connect the solar panels (in series) to AC200L via the DC input cable and solar charging cable. When solar panels maintain a power output of 1,200W, the AC200L can be charged up to 80% in about 1.5 hours. However, please be aware that the charging time may vary based on weather conditions, sunlight intensity, panel orientation, and other variables.

Note:

- Make sure your solar panels meet the following requirements:

  Voc: 12V-145V Current: 15A Max. Power: 1,200W Max.

- Non-waterproof solar panels will lose efficiency if they get exposed in the rain for a long time.

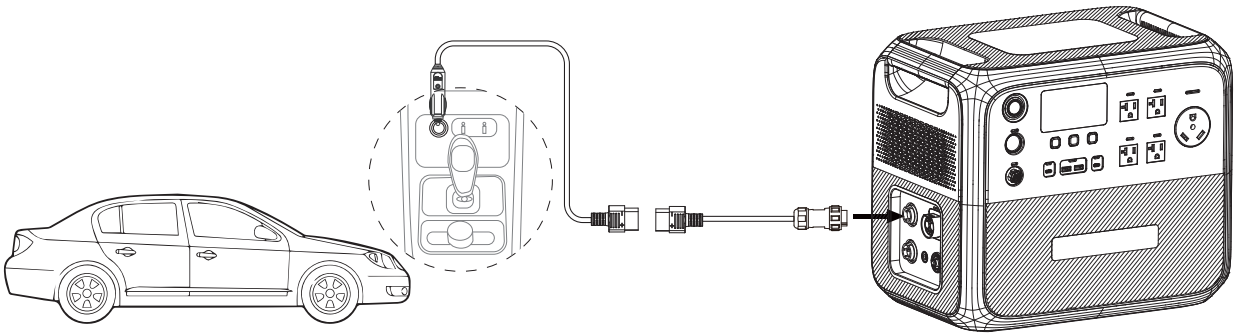


7.3 Car Charging

Connect the AC200L to the vehicle's 12V cigarette lighter port via the DC input cable and car charging cable. The AC200L can charge at a maximum of 96W, and it'll automatically stop charging once it's fully charged.

Note: Make sure your vehicle meets the following conditions for charging:

- The vehicle is capable of supplying power.
- The vehicle's engine is running during the charging process.

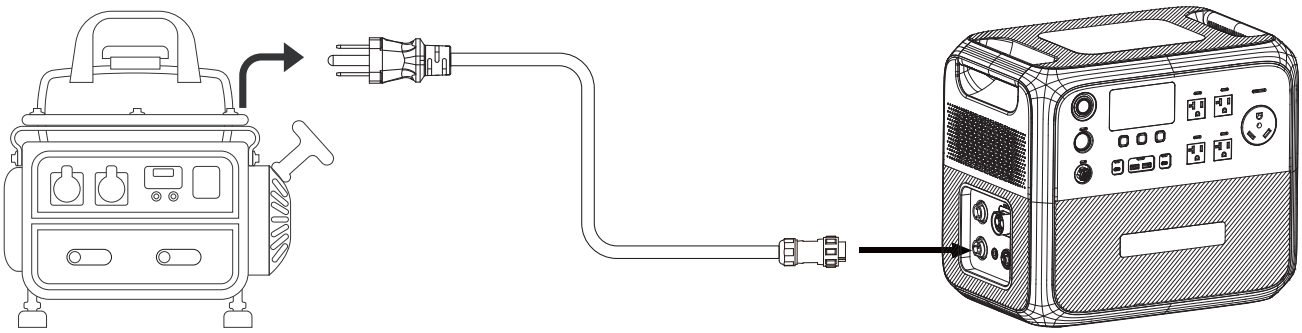


Attention:

The AC200L has a low-voltage disconnect function designed to protect your vehicle's battery during charging. If the input voltage drops below 10.5V, the unit will automatically stop charging to prevent over-discharging and potential damage to the battery.

7.4 Generator Charging

Connect the AC200L to a generator via the AC charging cable. The AC200L also automatically stops charging when it's fully charged.

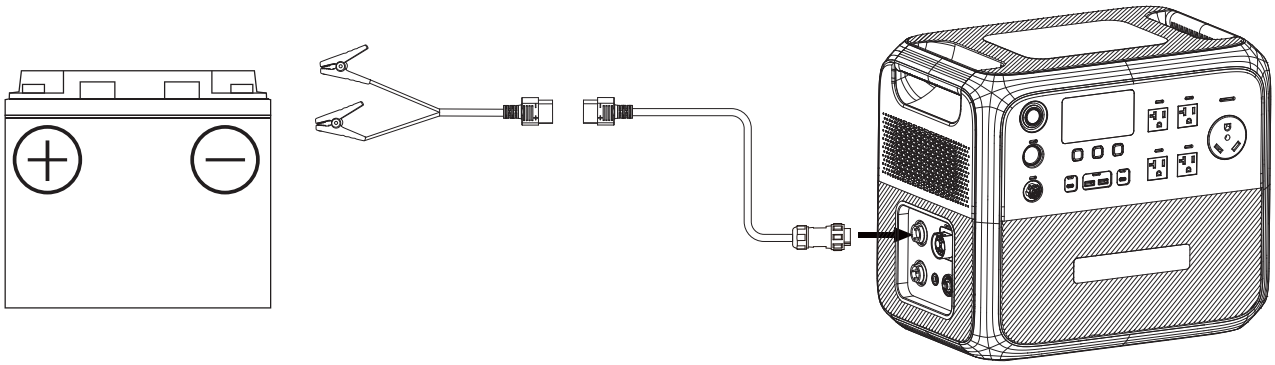


Note: Make sure your generator delivers the AC output with charging voltage, frequency, and Grid Self-adaption Mode voltage that meet AC200L's specifications.

If the total power demand of your connected devices exceeds the generator's output capacity, please turn on the Grid Self-adaption Mode to ensure a seamless charging experience.

7.5 Lead-acid Battery Charging

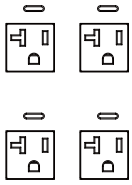
In this method, the AC200L is charged by connecting the lead-acid battery and the AC200L DC/PV port via the optional lead-acid battery charging cable， as shown in the figure below.



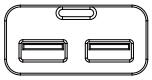
8. Discharging

Besides the cigarette lighter port, USB-A, and USB-C, AC200L also features two types of AC outlets and a 48V DC port, expanding your charging options.

8.1 AC Discharging

Port	Picture	Description
20A AC Outlet x 4		For AC electrical devices.
30A AC Outlet x 1		For AC electrical devices with NEMA TT-30 plug.

8.2 DC Discharging

Port	Picture	Specifications	Description
Cigarette Lighter Port x 1		12V / 10A	12V DC appliances up to 120W power. e.g. car refrigerator, air conditioner, lead-acid battery
USB-A x 2		QC 3.0, 18W Max.	Mobile phones and other small loads.
USB-C x 2		PD 3.0, 100W Max.	Mobile phones, laptops, etc.
48V DC Port x 1		44.8V-57.6V / 8A	48V DC appliances, e.g. charging RV Life Batteries with D40

Note: To ensure optimal performance, avoid short-circuiting the ports and keep them dry during use or storage. Additionally, do not block or cover the ports while ensuring proper ventilation.

9. Settings

The AC200L offers the convenience of adjusting its settings either via the LED screen or the BLUETTI App. With the unit's LED screen, you have direct control over various settings such as Power Lifting Mode, ECO Mode, output frequency, and charging modes. Additionally, by using the BLUETTI App, you can access a user-friendly interface on your phone to conveniently monitor and control the AC200L.

9.1 Setting Mode

When the screen is on, press and hold the AC and DC Power Buttons for about 2 seconds till the output frequency flashes to enter the Setting Mode.

9.2 Frequency Switching

The current output frequency (50Hz / 60Hz) is displayed in the lower right corner of the screen. In the Setting Mode, press the DC Power Button to navigate until the output frequency appears on the screen. Then, press the AC Power Button to switch the frequency options based on your requirements.

Note: Turn off AC Power Button before setting Frequency.

9.3 AC Charging Mode

The AC200L supports 3 AC charging modes - Standard, Turbo, and Silent to fit your specific needs. In the Setting Mode, use the DC power button to navigate until the or icon starts flashing on the screen. Then, press the AC power button to choose the charging modes. Please refer to the table below for useful instructions.

Mode	Recharging Power			Description	Note	Icon
	AC	PV	AC+PV			
Standard	1200W Max.	1200W Max.	1200W Max.	Fully charged in about 3 hours	More friendly to AC200L's battery.	None
Turbo	2400W Max.	1200W Max.	2400W Max.	80% charge in 45 minutes	Comes in handy when recharging time is a priority.	
Silent	800W Max.	800W Max.	800W Max.	Low operation noise less than 50dB	Offers a quiet, low-power operation for long battery life.	

9.4 Power Lifting Mode

The Power Lifting Mode is specifically designed to handle resistive loads up to 3,600W, including electric blankets, kettles, hairdryers, and other heating devices. To enable it, access the Setting Mode, navigate with the DC Power Button until the appears, and press the AC Power Button to enable the mode.

Note: The Power Lifting Mode is not enabled by default and is only suitable for resistive loads with a power rating between 2,400W-3,600W.

Although the AC200L can handle higher power demands, its actual operating power remains at 2,400W.

9.5 ECO Mode

The AC200L has three ECO modes that help you save power and extend battery life:

· AC-ECO Mode

In this mode, if the AC power output falls below a certain level for a set period of time, the AC power will automatically turn off.

Note: This mode is not available when the AC200L is charging from an AC source like a wall outlet or generator.

· DC-ECO Mode

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

Attention:

· The AC-ECO and DC-ECO modes are enabled by default to save energy, and it's recommended to keep them enabled at all times.

· Use the BLUETTI App to enable or disable AC-ECO Mode and DC-ECO Mode separately. If you use the LED screen, they'll be turned on or off at the same time.

· To avoid any interruption in charging, disable ECO Mode when charging a small device that consumes less than 60W of power.

In the Setting Mode, press the DC Power Button to navigate through the setting items. When the ECO icon flashes on the screen, press the AC Power Button to enable or disable the ECO Mode.

9.6 WiFi & Bluetooth Connection

To connect the AC200L to the BLUETTI App, turn on the WiFi or Bluetooth first. In the Setting Mode, press the DC Power button to navigate through the setting items. When the icon flashes on the screen, press the AC Power Button to turn Bluetooth on. Similarly, when the icon flashes on the screen, press the AC Power Button to toggle WiFi on.

9.7 UPS Mode

With the UPS mode enabled, the AC200L can provide uninterrupted power to your essential appliances during a power outage. And there are four different modes available through the BLUETTI App, allowing you to choose the best option for your needs.

• Standard UPS Mode

In this mode, the AC200L and its expansion batteries (if any) are always charged using available solar or grid power, ensuring that they are ready to provide backup power in case of a grid failure. When the grid fails, the AC200L unit seamlessly takes over to keep your devices running without any interruption.

• Time Control UPS Mode

This mode allows you to program the AC200L to charge during off-peak hours when electricity is cheaper. Then, during peak hours when electricity is more expensive, the AC200L seamlessly switches over to power your devices, helping you to save money on your electricity bills.

• PV Priority UPS Mode

The PV Priority UPS mode is better for regions with plenty of sunlight all the year. AC200L is mainly charged by solar energy to save power.

Note: When battery SOC is higher than the preset value, devices on AC outlets are powered by PV and the battery together.

When battery SOC is lower than set value, the grid charges the battery and devices at the same time.

• Customized UPS Mode

Tailor your UPS settings to match your unique needs in this mode. Create personalized schedules for charging and discharging, set battery SoC limits, and even control the grid

charging switch and scheduled charging switch according to your diverse requirements.

9.8 Grid Self-adaption Mode

If you can not charge the AC200L using a generator or unstable grid voltage because of unstable voltage, you can enable the Grid Self-adaption Mode through the BLUETTI App.

9.9 Max. Grid Input Current

The Max. Grid Input Current is set to 15A by default. If the grid current doesn't match this setting, adjust the setting in the BLUETTI App.

Attention:

The AC200L allows a maximum grid input current of up to 20A.

If you need to increase the setting beyond the default 15A, please contact BLUETTI Customer Service and request a password to make the necessary adjustments.

9.10 Exit Setting Mode

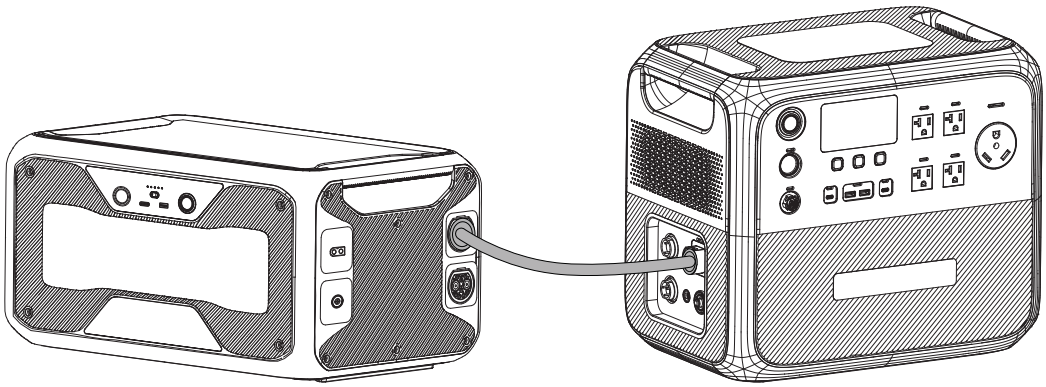
To save your AC200L settings and exit the Setting Mode, press and hold both the DC and AC Power Buttons at the same time.

Note: If you do not perform any operation in 1 minute, the AC200L will automatically exit the Setting Mode, and no changes will be saved.

10. Connect to Expansion Battery

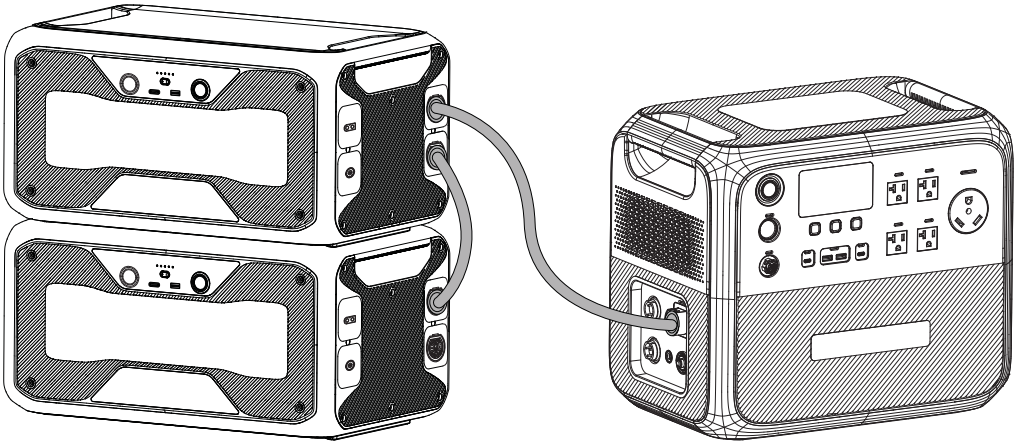
The AC200L unit supports several types of expansion batteries to increase its power capacity, such as the B210, B230, and B300. Follow the steps below to connect them:

1. Make sure both the AC200L and the expansion battery are turned off.
2. Connect them using the battery expansion cable.
3. Power on the AC200L and the expansion battery turns on automatically. The displays on the AC200L's screen.



(AC200L + 1 B300)

If you want to add one more expansion battery, please set up the system as shown.



(AC200L + 2 B300)

Attention:

The AC200L is compatible with up to two B210 or B300 units, but only one B230 unit.

11. BLUETTI App

Scan the QR code below or search "BLUETTI" in the App Store or Google Play to download the BLUETTI App.

For more details, please refer to BLUETTI APP INSTRUCTIONS.

12. Specifications

Model	AC200L
Battery Capacity	2,048Wh (40Ah)
Cell Type	Lithium Iron Phosphate ($LiFePO_4$, LFP)
AC+DC/PV Input Power	2,400W Max.
AC+DC Output Power(without grid)	2,500W Max.
Weight	28.3 kg/ 62.4 lb
Dimensions (L × W × H)	420mm × 280mm × 366.5mm / 16.5in × 11in × 14.4in
Charging Temperature	0°C to 40°C / 32°F to 104°F
Discharging Temperature	-20°C to 40°C / -4°F to 104°F
Storage Temperature	Up to 1 month: -20°C to 45°C / -4°F to 113°F Up to 3 months: -20°C to 30°C / -4°F to 86°F Up to 12 months: -20°C to 25°C / -4°F to 77°F
Working Humidity	10% to 90%
Noise	50dB Max.
Working Altitude	2,000m / 6,561ft

AC Output	
Power	2,400W in total
Overload Power	2520W~3000W@2min
	3000W~3600W@5s
	>3600W@0.5s
Voltage	120VAC
Current	20A
Frequency	50Hz / 60Hz
DC Output	
Cigarette Lighter Port × 1	12VDC / 10A
USB-A × 2	5VDC / 3A, 9VDC / 2A, 12VDC / 1.5A, 18W Each
USB-C × 2	5/9/12/15/20VDC / 3A, 20VDC / 5A ; (100W for one, 150W for two)
48V DC Port × 1	48VDC / 8A
AC Input	
Voltage	120VAC
Current	20A Max.
Frequency	50Hz / 60Hz
UPS	Switching time ≤20ms
Power	2,400W Max. (0%-80% in 45 minutes @ 10°C-30°C / 50°F-86°F)
DC Input	
Interface	2-pin Aviation Socket
Power	1,200W Max.
Current	15A Max.
Voltage	12V to 145VDC
Battery Expansion Port	
Voltage	44.8V to 57.6VDC
Input Current	60A Max.

13. Button Operation Instructions

Operation	Function	Description
Press the AC Power Button	Turn on / off the AC output	/
Press the DC power button	Turn on / off the cigarette lighter port and RV port output	/
Press the USB Power Button	Turn on / off the USB output	/
Press the AC and DC Power Buttons simultaneously and hold for more than 2 seconds till the output frequency flashes	Enter / exit the Setting Mode	In the Setting Mode, the icons for the currently enabled functions remain lit, except for the flashing output frequency icon. If you do not perform any operation in 1 minute, the AC200Lwill automatically exit the Setting Mode, and no changes will be saved.
Press the DC Power Button in the Setting Mode	Navigate through the setting items	The flashing setting item is selected and editable. In the Setting Mode, the corresponding codes will be displayed on the left side: P01: Output Frequency P03: Charging Mode P04: Power Lifting Mode P05: ECO Mode P06: Bluetooth P07: WiFi
Press the AC Power Button when the setting item is flashing	Enable or disable the selected function.	/
Press and hold the DC Power Button in the Setting Mode	Switch the status page	You can view relevant information on the status page. SN: Serial Number Er: Error code H: Historical faults VF: Version

14. Troubleshooting

In the Setting Mode, press and hold the DC Power Button to switch the status page until the Er icon and the error code appear simultaneously on the screen. Please refer to the table below for helpful guidance.

Error Code	Alarm Icon	Description	Troubleshooting
E001	ALARM + ! + AC	Inverter overload	Check if the power consumption of your devices is too high. Reduce the load if necessary.
E002	AC + ALARM +	Inverter overtemperature protection, AC output off	Wait for about 10 minutes until the unit cools down, then turn on the AC output again.
E003	ALARM + ! + AC	Inverter short circuit	1.Check if the power consumption of your devices is too high. 2.Check if any of your electrical devices are causing a short circuit.
E033	ALARM + ! +	PV overvoltage	Make sure the PV input voltage is within the range of 12V to 145VDC.
E039	ALARM + ! +	PV overtemperature	Wait for about 10 minutes until the unit cools down, then re-enable the PV input.
E065	DC + ALARM + !	DC output short circuit	1.Check if the power consumption of your devices is too high. 2.Check if any of your electrical devices are causing a short circuit.
E067	DC + ALARM + !	DC output overcurrent	Check if the power consumption of your devices is too high. Reduce the load if necessary.
E068	DC + + ALARM	DC output overtemperature	Wait for about 10 minutes until the unit cools down, then restart your devices.
E085	+ ALARM	Charging temperature too high	Wait for the unit to cool down before charging.
E086	+ ALARM	Charging temperature too low	Make sure the unit is placed in an ambient temperature of 0°C to 40°C (32°F to 104°F).
E087	+ ALARM	Discharging temperature too high	Wait for the unit to cool down before discharging.

E088	+ ALARM	Discharging temperature too low	Make sure the unit is placed in an ambient temperature of -20°C to 40°C (-4°F to 104°F).
E115	GRID	Grid overfrequency	Check if the grid frequency is too high. Contact your local power provider if necessary.
E116	GRID	Grid underfrequency	Check if the grid frequency is too low. Contact your local power provider if necessary.
Others	/	/	Please contact BLUETTI support for assistance.

When in Error Code page, press and hold the DC Power Button to switch the status page, when the HI appears, you can view the fault history. To clear the fault history, press and hold the AC Power Button for 2 seconds, and then release it.

Appx. 1 Estimating Operation Time

To estimate the operation time of the AC200L, consider the load you're applying:

Operation time = Battery Capacity (Wh) x DoD x η ÷ (Load Power + AC200L Self-consumption)

Note: DoD refers to the depth of discharge. AC200L works at 95% DoD for longer battery life.

η is the conversion efficiency of the inverter, typically over 93% for AC200L.

The self-consumption of AC200L is approximately 12W.

E.g. If you have a 40W refrigerator, you can run it for about 34.7 hours.

Operation time = 2,048Wh × 95% × 93% ÷ (40W + 12W) ≈ 34.7 hours.

Please keep in mind that the estimated operation time provided is for reference purposes and may vary based on actual usage conditions. Factors such as low temperature and excessive loads can significantly affect the battery capacity, leading to a reduction in the average operation time.

Appx. 2 FAQ

Q1: How do I know whether my devices will work well with this product?

A: Please evaluate the total constant load of your devices. If it doesn't exceed the Max. output power of AC200L (2,400W), you can use this power station to run your devices.

Note: Some devices with built-in motors or compressors may start at 2-4 times the rated power, which can easily overload the AC200L.

Q2: Can I use third-party solar panels to charge this product?

A: Yes, you can. However, make sure your solar panels have an open circuit voltage of 12V-145V and are equipped with MC4 connectors. It's also important not to mix different types of solar panels.

Q3: Can it charge and discharge at the same time?

A: Yes. It supports pass-through charging. The AC200L comes with the premium $LiFePO_4$ battery and proprietary Battery Management System to ensure that it can charge and discharge at the same time.

Q4: Why is the charging power often too low?

A: AC200L has a built-in intelligent BMS that automatically adjusts the charging power in response to the battery temperature and SoC, thus protecting the battery and extending its service life.

Appx. 3 FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE: FCC Radiation Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

Appx. 4 IC Caution

This device contains licence-exempt transmitter(s) / receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

RF exposure statement: The equipment complies with IC Radiation exposure limits set forth for uncontrolled environments. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

CAN ICES-3 (B)/NMB-3(B) (Canada)
This Class B digital apparatus complies with Canadian ICES-003.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) L' appareil ne doit pas produire de brouillage;
(2) L' appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d' en compromettre le fonctionnement.

ISED Déclaration d'exposition aux radiofréquences:
Cet équipement est conforme aux limites d'exposition IC définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et la carrosserie.

Appx. 5 Consignes de sécurité

Lisez ce manuel pour savoir comment utiliser correctement le produit et connaître les consignes de sécurité correspondantes. Les exigences en matière de sécurité sont fournies à titre d'exemple et comprennent, sans s'y limiter, les exigences énumérées dans le présent manuel. Le fonctionnement réel doit être conforme à toutes les normes de sécurité applicables. Si vous avez des questions, n'hésitez pas à contacter l'équipe de support BLUETTI ou votre revendeur local.

1) Déclaration

Pour garantir un fonctionnement sûr, il est essentiel de respecter les conditions suivantes :

- Utilisez ou stockez toujours le produit dans les conditions spécifiées dans ce manuel.
- Évitez tout démontage, tout remplacement des composants ou toute modification des codes logiciels non autorisés.

⚠ *BLUETTI n'est pas responsable des dommages résultant des circonstances suivantes :*

- Les cas de force majeure tels que les tremblements de terre, les incendies, les tempêtes, les inondations ou les coulées de boue.
- Les dommages causés par le transport du client.
- Les dommages résultant de conditions de stockage inadéquates telles que spécifiées dans le manuel.
- Les dommages causés par la négligence du client, une mauvaise utilisation ou des actions intentionnelles.
- Les dommages occasionnés au système ou au matériel par des tiers ou des clients, y compris, mais sans s'y limiter, une manipulation ou une installation non conforme aux consignes du présent manuel.
- L'utilisation du produit avec des appareils nécessitant une alimentation sans interruption (ASI) de haute performance, y compris, mais sans s'y limiter, les serveurs de données, les stations de travail, les équipements médicaux et d'autres appareils similaires.

2) Exigences générales

CONSIGNES RELATIVES AU RISQUE D'INCENDIE, D'ÉLECTROCUTION OU DE BLESSURE

CONSIGNES DE SÉCURITÉ IMPORTANTES

AVERTISSEMENT – Les précautions de base suivantes doivent toujours être prises lorsque vous utilisez ce produit :

a. Lisez l'ensemble des consignes avant toute utilisation du produit.

b. Pour réduire le risque de blessure, une surveillance étroite est nécessaire lorsque vous utilisez le produit à proximité d'enfants.

c. Ne placez pas vos doigts ou vos mains à l'intérieur du produit. N'insérez pas de corps étrangers dans les ports du produit.

d. L'utilisation d'un accessoire non recommandé ou vendu par le fabricant peut entraîner un risque d'incendie, d'électrocution ou de blessure.
e. Pour réduire le risque d'endommagement de la fiche et du câble électriques, tirez au niveau de la fiche plutôt que sur le cordon lors du débranchement.
f. N'utilisez pas un bloc-batterie ou un appareil endommagé ou modifié, car ils peuvent présenter un comportement imprévisible entraînant un risque d'incendie, d'explosion ou de blessure.
g. N'utilisez pas le produit avec un câble ou une fiche endommagés, ou un câble de sortie endommagé.
h. SEUL du personnel autorisé peut remplacer la batterie interne ou tout autre composant du produit. Aucun composant ne peut être réparé par l'utilisateur final. Ne démontez pas le produit par vous-même, adressez-vous à un technicien qualifié pour tout service de réparation ou d'entretien. Un réassemblage incorrect peut entraîner un risque d'incendie ou d'électrocution.
i. Pour réduire le risque d'électrocution, débranchez le produit de la prise avant de procéder à toute opération d'entretien prévue dans les consignes.
j. AVERTISSEMENT – RISQUE DE GAZ EXPLOSIFS. Pour réduire le risque d'explosion de la batterie, suivez ces consignes ainsi que les consignes du fabricant de la batterie et du fabricant de tout équipement que vous avez l'intention d'utiliser à proximité de la batterie. Examinez les mises en garde apposées sur ces produits et sur les moteurs.
k. PRÉCAUTIONS PERSONNELLES
1)Protégez-vous complètement et portez des vêtements et des lunettes de protection. Évitez tout contact avec les yeux lorsque vous travaillez à proximité de la batterie.
2)Ne fumez JAMAIS et ne produisez JAMAIS d'étincelles ou de flammes à proximité de la batterie ou du moteur.
3)Travaillez avec une extrême prudence et évitez toute chute d'outil métallique sur la batterie. Cela pourrait provoquer une étincelle ou un court-circuit de la batterie ou d'autres pièces électriques, entraînant par conséquent un risque d'explosion.
l. Lorsque vous chargez la batterie interne, travaillez dans un endroit bien ventilé et ne limitez en rien la ventilation.
m. Dans des conditions abusives, du liquide peut être éjecté de la batterie, évitez tout contact. En cas de contact accidentel, rincez à l'eau. Si le liquide entre en contact avec les yeux, consultez immédiatement un médecin. Le liquide éjecté de la batterie peut provoquer des irritations ou des brûlures.
n. N'exposez pas le produit au feu ou à une température excessive. L'exposition au feu ou à une température supérieure à 130 °C peut entraîner un risque d'explosion.
o. Confiez l'entretien du produit à un réparateur qualifié qui utilisera uniquement des pièces de rechange identiques, de manière à assurer une sécurité continue.

p. N'utilisez PAS le produit dans des conditions humides. Si le produit est mouillé, veuillez le sécher soigneusement avant de l'utiliser.
q. Veuillez assurer une ventilation adéquate pendant l'utilisation et ne pas obstruer les ouvertures du ventilateur. Une ventilation inadéquate peut causer des dommages permanents sur le produit.
r. NE placez RIEN sur la surface supérieure du produit lors de l'utilisation ou du stockage. NE déplacez PAS le produit pendant son fonctionnement, car les vibrations et les chocs soudains peuvent conduire à de mauvaises connexions avec le matériel à l'intérieur.
s. En cas d'incendie, seul un extincteur à base de poudre sèche est adapté au produit.
t. AVERTISSEMENT – RISQUE DE CHOC ÉLECTRIQUE. N'utilisez jamais le produit pour alimenter des outils électriques dans le but de couper ou d'accéder à des pièces ou des câbles sous tension, ou à des matériaux pouvant contenir des pièces ou des câbles sous tension, tels que les murs d'un bâtiment, etc.
u. Pour éviter tout contact avec des liquides, n'utilisez pas ce produit par temps de pluie ou dans des environnements à forte humidité.

3) Consignes de mise à la terre

Ce produit doit être mis à la terre. En cas de dysfonctionnement ou de panne, la mise à la terre fournit un chemin de moindre résistance pour le courant électrique afin de réduire le risque d'électrocution. Ce produit est équipé d'un câble muni d'un conducteur de mise à la terre et d'une fiche de mise à la terre. La fiche doit être branchée dans une prise correctement installée et mise à la terre conformément à tous les codes et règlements locaux.

⚠ *AVERTISSEMENT*

Une mauvaise connexion du conducteur de mise à la terre de l'équipement peut entraîner un risque d'électrocution. Vérifiez auprès d'un électricien qualifié en cas de doutes quant à la mise à la terre de l'appareil. Ne modifiez pas la fiche fournie avec le produit. Si elle n'est pas adaptée à la prise, faites installer une prise adéquate par un électricien qualifié.

4) Consignes de stockage

a. Lorsque le SoC atteint 5 %, veuillez charger le produit immédiatement.
b. Avant de stocker le produit, veuillez le charger de manière à ce que le SoC soit compris entre 40 % et 60 % afin de préserver l'état optimal du produit. De plus, éteignez le produit et débranchez toutes les raccordements électriques de celui-ci.
c. Stockez le produit dans un endroit frais et sec, à l'écart des matériaux et des gaz inflammables ou combustibles.

d. Le produit peut être stocké en toute sécurité à une température comprise entre -20 ℃ et 40 ℃ (entre -4 ℉ et 104 ℉). Toutefois, si la durée de stockage dépasse un mois, il est recommandé de maintenir une température de stockage idéale d'environ 30 ℃ (86 ℉). Afin de maintenir le produit en bon état, veuillez décharger et charger complètement l'appareil au moins une fois tous les 3 mois. I n'est PAS recommandé de stocker l'appareil pendant des périodes prolongées, car cela peut altérer les performances et la durée de vie générale du produit.

Si le SoC chute à 0 (pendant le stockage ou au démarrage), prenez les mesures suivantes pour redémarrer le produit en toute sécurité :

- Mettez-le immédiatement hors tension.
- Chargez-le dans les 48 heures.
- Placez-le à une température ambiante comprise entre 5℃ et 35℃ (entre 41℉ et 95℉) pendant 24 heures avant de le charger. Il est recommandé de charger le produit via une source CA. Si vous le chargez à l'aide de l'énergie solaire, assurez-vous que votre système solaire fournit une puissance supérieure à 100 W.

⚠ *BLUETTI n'est pas responsable des dommages causés à l'équipement en raison du non-respect des consignes ci-dessus.*

CONSERVEZ CES CONSIGNES

⚠ 📖 Le symbole représenté vous rappelle de lire les consignes figurant dans la documentation accompagnant le produit avant toute utilisation ou tout entretien.

- Branchez le produit sur une prise de courant avec mise à la terre à l'aide du câble d'alimentation fourni.
- La prise de courant doit être installée à proximité du produit et facilement accessible pour des raisons de sécurité.
- Concernant l'élimination, ne JAMAIS procéder aux actions suivantes pour cause de risque d'explosion : ne jamais placer une batterie au feu ou dans un four chaud et ne jamais écraser ou couper mécaniquement une batterie.
- Évitez de placer les batteries dans des environnements à très haute température, car cela peut entraîner une explosion ou une fuite de liquide ou de gaz inflammable.
- Les batteries soumises à une pression d'air extrêmement basse peuvent entraîner une explosion ou une fuite de liquide ou de gaz inflammable.
- Il convient d'attirer l'attention sur les critères environnementaux quant à l'élimination des batteries.
- Avant toute installation ou utilisation de l'appareil, veuillez vous référer aux informations figurant sur le dessous extérieur de l'appareil pour obtenir des informations sur les caractéristiques électriques et la sécurité.

For more information, please visit:

Web: https://www.bluettipower.com

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service@
bluettipower.com

SHENZHEN POWEROAK NEWENER CO., LTD.
Add: F19, BLD No.1, Kaidaer, Tongsha Rd No.168, Xili Street,
Nanshan, Shenzhen, China

USA Agent
Company: BLUETTI POWEROAK INC
Add: 6185 S VALLEY VIEW BLVD STE D LAS VEGAS
NEVADA 89118 United States
FRN: 0033559824

Customer Service
Tel: 800-200-2980 (Monday to Sunday 9:00-17:00)
Email: sale@bluettipower.com (Pre-sales),
service@bluettipower.com (After-sales)

P/N:17.0303.0627-01A1

BLUETTI

Certificate

Inspector: _____

QC: _____

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