

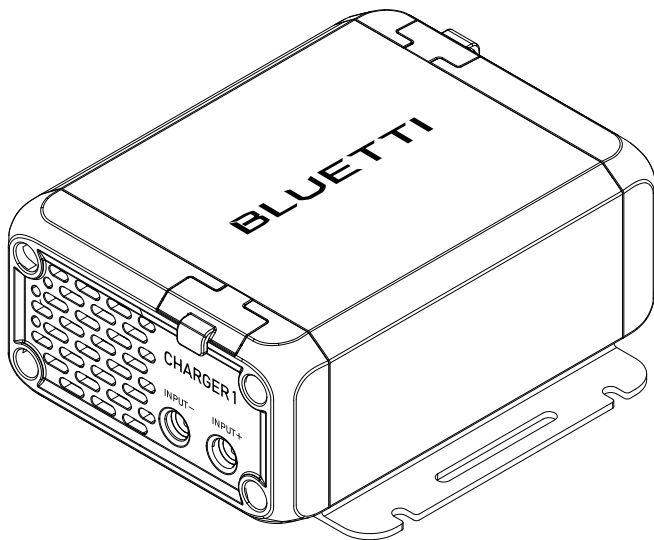
CHARGER 1

DC-DC Charger

User Manual v1.0

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





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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Notice

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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.



About the Manual

Introduction

This manual provides information on the functionality, basic operation, and safety instructions of the CHARGER1 DC-DC Charger (hereinafter referred to as CHARGER 1). Please read and understand all instructions in this manual before use.

Symbol Conventions

This manual uses the following symbols to highlight important information:

Symbol	Category	Description
	Danger / Attention	It indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	Notice	It indicates a potentially hazardous situation which, if not avoided, could cause substantial damage to property and the environment.

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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:

- Always operate or store the product in the conditions specified in this manual.
- The ambient conditions must comply with the requirements in the relevant international, national, or regional standards.
- Avoid unauthorized disassembly, component replacement, or modification of software codes.
- Keep this manual carefully for future reference.
- Read all instructions and warnings on the CHARGER 1, car battery, and BLUETTI portable products, and their respective user manuals.
- Use a standard 12V or 24V car battery, or two 12V batteries connected in series.
- Make sure the product's output voltage falls within the portable power station's DC input voltage.


BLUETTI shall not be liable for the following circumstances:

- Damage resulting from force majeure events such as earthquakes, fires, storms, floods, or mudslides.
- Damage incurred during the customer's own transportation.
- Damage resulting from inadequate storage conditions as specified in the manual.
- Damage caused by customer negligence or improper operation.
- Damage caused by customer's intentional actions.
- Damage caused by misuse not in accordance with the instructions in this manual.

- Damage caused by third parties, including but not limited to improper shipping, usage, and installation not in accordance with the instructions in this manual.
- Damage or negative outcomes caused by adjustments, changes, or removal of labels in violation of this manual.
- Damage or negative outcomes resulting from using power sources not specified in this manual, or from using this product to power non-BLUETTI portable products.
- Incidents involving personal safety, fire, equipment malfunction, or any adverse aftermath, resulting from using this product with power-reliant equipment in critical sectors like atomic, energy, aviation, medical, and other domains where safety is paramount.

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:

- Always switch off the vehicle before starting any electrical work.
- Do not clean the product with water.
- Do not disassemble the product on your own.
- Keep the product away from heat resources and high temperatures.
- Do not use the product in an environment with fire, explosive gases, or smoke.
- Do not store the product with flammable liquids, gases, or explosive materials.
- Do not use the product in an environment with salty mist or high humidity.
- Do not insert foreign objects into any ports and vents of the product.
- Do not put fingers or hands into the product.
- Do not contact with any metal tools or objects while the product is in operation.
- Make sure the product is thoroughly dry before use.
- Use the product in a clear, clean, and well-ventilated area.





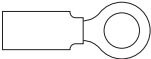
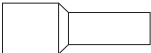
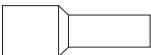
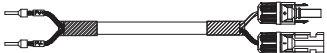

- Do not attempt to install the product or perform any other operations by anyone other than authorized personnel. If the replacement of components is necessary, seek assistance from qualified technical support personnel.
- Do not operate the product with a damaged cord, plug, or output cable.
- To reduce the risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the product.
- Switch off the circuit breaker immediately in case of malfunction.
- Regularly inspect the product and its accessories for damage or deterioration. If the product's shell is cracked, do not use it and contact BLUETTI support or your local BLUETTI dealers.
- Keep children, pets, bugs, and other animals out of reach of the product.
- This product is designed for use with IT/AV products only.
- Wear goggles and protective gloves when wiring and installing.

1.3 Operation Requirements

- Ensure all screws are securely tightened.
- Make sure to match the correct positive and negative terminals.
- Install the product before starting the vehicle.
- Connect input cables to the product first, then to car battery.
- Ensure the product is firmly installed before use.
- Follow the portable power station's user manual for usage and storage guidelines when powering it.

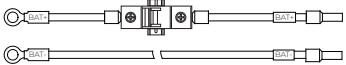
2. Packing List

Standard Accessories

Description	Image	Qty.
CHARGER1 DC-DC Charger		1
Hex Socket Screw		4
Self-tapping Screw		6
Hex Socket Wrench		1
OT Terminal		4
Tube Terminal (red, positive)		2
Tube Terminal (black, negative)		2
MC4 Output Cable		1
Product Documentation		1

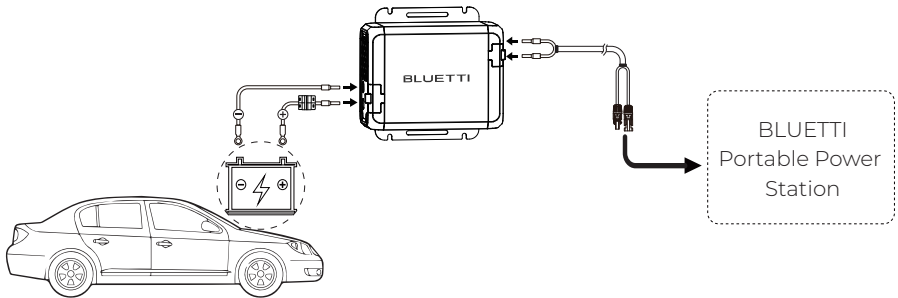
Optional Accessory

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

Description	Image
DC Input Cables (5m, 6AWG, with a 60A circuit breaker)	

3. Product Introduction

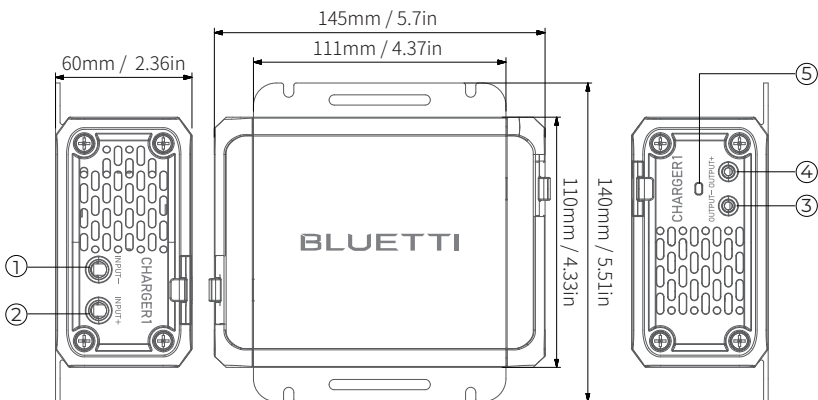
The CHARGER1 is your go-to for fast charging BLUETTI portable power stations using extra power from your car's 12V or 24V battery. It fits perfectly in cars, SUVs, and RVs and can replenish your power station up to 6 times faster than regular car outlets thanks to its built-in booster module. Plus, it smartly detects your car battery's voltage to prevent drainage, so you'll never be left without power on your adventures.



⚠ Attention:

- Do not connect any ports of CHARGER1 to AC outlets, and avoid connecting them to batteries exceeding 32V.
- Use BLUETTI's input cables or purchase compatible cables and a 60A circuit breaker.
- Install a 60A circuit breaker on the input cable for safety.

4. Product Overview



No.	Item	No.	Item
①	Negative Input	④	Positive Output
②	Positive Input	⑤	Status Indicator
③	Negative Output		

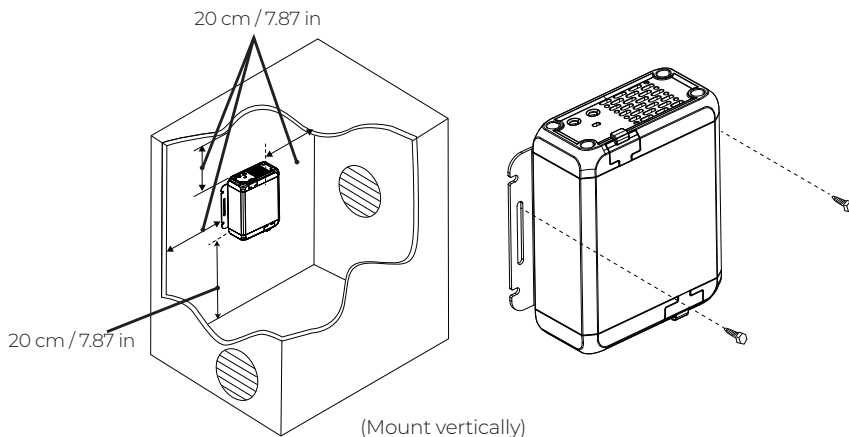
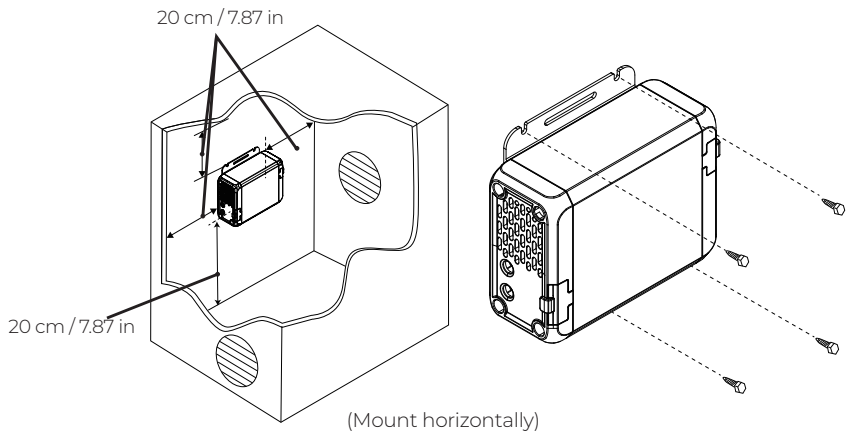
5. Mounting

5.1 Location Requirements

Place the CHARGER1 inside the vehicle's cabin or trunk near the portable power station. Choose a dry area free from other substances and not susceptible to high temperatures. Securely mount the CHARGER1 on a stable surface, either horizontally or vertically.

5.2 Mount the CHARGER 1

1. Select an appropriate location, leaving at least 20cm of clearance on all sides of CHARGER 1.
2. Secure the CHARGER 1 in place using 4 self-tapping screws.



6. Applications

6.1 Compatible BLUETTI Portable Power Stations

The CHARGER 1 is compatible with BLUETTI portable power stations that come with an XT60, DC7909, or aviation port.

Terminal	DC Input Voltage	Model
MC4-XT60	12V-28V	AC2A, AC2P, EB55, AC50B
MC4-XT60	12V-60V	AC70, AC70P, AC180T
MC4-DC7909	12V-28V	EB3A, AC60, AC60P
MC4-DC7909	12V-60V	AC180, AC180P
MC4-SP21-02PT Aviation	10V-150V	AC200MAX, AC200P, AC200L, AC200P L
MC4-SP21-04PT Aviation	12V-150V	AC300, AC500, EP500, EP500Pro
MC4-M25 Aviation	11V-60V	AC240, AC240P

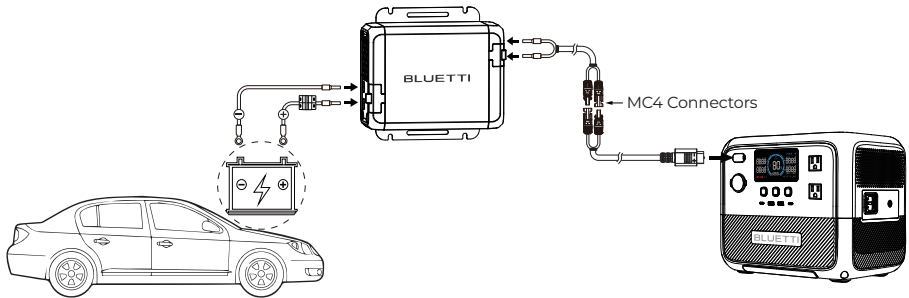
Note:

- For unlisted products, please contact BLUETTI support for assistance.
- If the ambient temperature exceeds 40°C (104°F), the product won't charge AC300, AC500, EP500, and EP500Pro. Keep it in a cooler place.

Attention:

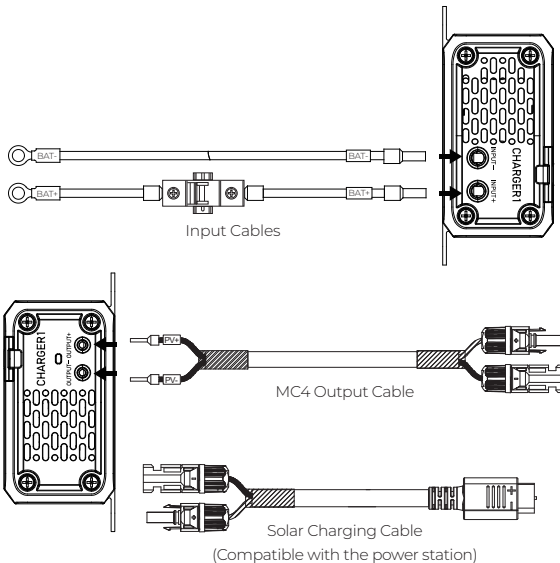
Make sure the CHARGER 1's output voltage falls within the power station's specifications.

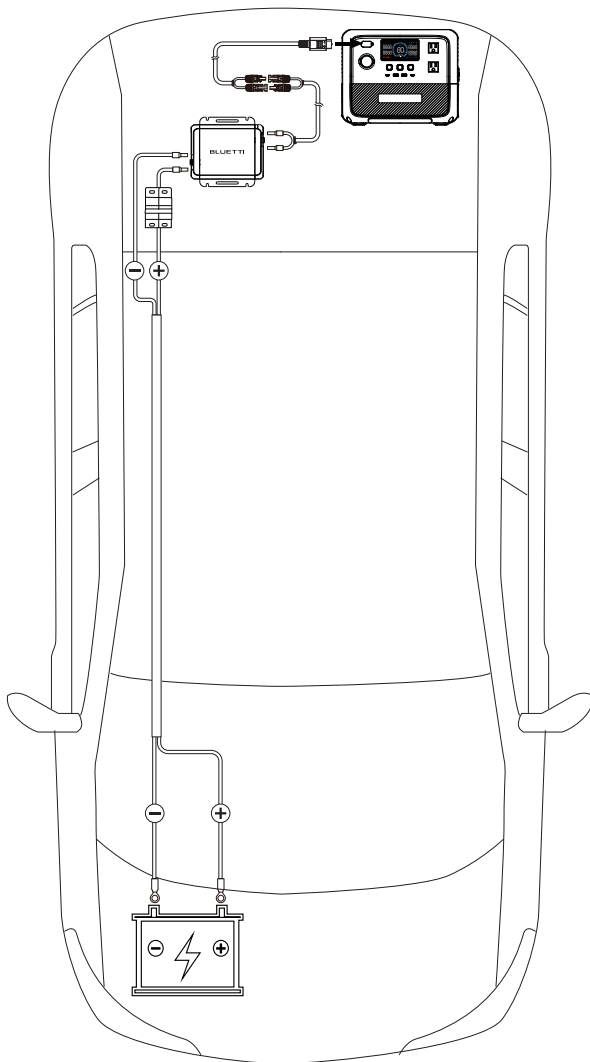
6.2 Wire up Your Charger



Preparation

- Make sure the vehicle is not started and its battery is in good condition.
- Make sure that the car battery and power station are compatible with CHARGER 1.
- Prepare a 2.5mm hex screwdriver and the necessary connection cables as shown below.





Wiring & Operations

1. Connect the red input cable (BAT+) to the positive input port of CHARGER 1, and the black input cable (BAT-) to the negative input.
2. Connect the red output cable (PV+) to the positive output of CHARGER 1, and the black output cable (PV-) to the negative output.
3. Connect the MC4 connectors from both the output cable and the solar charging cable.
4. Connect the red input cable's OT terminal to the positive terminal of the car battery, and the black input cable's OT terminal to the negative terminal.
5. Tighten all screws securely and turn on the circuit breaker.
6. Start the vehicle and wait for about 30 seconds. The status indicator flashes green rapidly, about 4 times per second. When the CHARGER 1 successfully starts up, it turns steady green.
7. Connect the solar charging cable to the power station for charging. The indicator flashes green once per second.
8. Use the app to adjust CHARGER 1's output voltage to match the power station's specifications.
9. You can check the charging status on the power station's display.
10. When charging is completed, the indicator turns steady green.

Note:

- When wiring, avoid high temperature, sharp edges, or friction spots, and secure cables tightly to prevent wear or loose connections.
- Deactivate CHARGER 1 by either turning off the vehicle or using the app before changing the cables.

7. Specifications

Model	CHARGER 1
Weight	Approx. 1.2kg / 2.645lbs
Dimensions (L × W × H)	145mm × 110mm × 60mm / 5.7in × 4.33in × 2.36in
Working Temperature	-20°C to 60°C / -4°F to 140°F
Working Humidity	10% to 90%
Storage Temperature	-20°C to 60°C / -4°F to 140°F
Storage Humidity	0% to 90%
Noise	50dB Max.
Working Altitude	<2,000m / 6,561ft
Protection Grade	IP20
DC Input	12V, 50A Max. (with 12V battery)
	24V, 25A Max. (with 24V battery)
DC Output	
Default Voltage	27V
Voltage Range (with 12V battery)	15.0V to 56.0V (adjustable via app)
Voltage Range (with 24V battery)	27.0V to 56.0V (adjustable via app)
Current	10A
Power	560W

8. Indicator Instructions

Status	Indicator
Battery voltage low	Flashing green once every 4 seconds
Starting up	Flashing green 4 times per second
Startup successful	Steady green
Charging	Flashing green once per second
Charging complete	Steady green
Input overvoltage	Steady red
Input overcurrent	Flashing red twice with a 1-second interval
Output short circuit	Flashing red 3 times with a 1-second interval
Output undervoltage	Flashing red 4 times with a 1-second interval
Output overvoltage	Flashing red 5 times with a 1-second interval
Overtemperature	Flashing red 6 times with a 1-second interval
Startup failed	Flashing red once with a 1-second interval
Output overload	Flashing red 7 times with a 1-second interval

9. Troubleshooting

Fault	Symptom	Reason	Solution
Output Short Circuit	Flashing red 3 times with a 1-second interval	The output has a short circuit.	<ol style="list-style-type: none"> 1. Check the output ports for damage or foreign objects causing short circuits. 2. Check the output cables for any surface damage. 3. Check for a short circuit in the portable power station's DC input port.
Output Undervoltage	Flashing red 4 times with a 1-second interval	The output voltage is too low.	<ol style="list-style-type: none"> 1. Check the output ports for damage or foreign objects causing short circuits. 2. Check the output cables for any surface damage. 3. Check for a short circuit in the portable power station's DC input port.
Overtemperature	Flashing red 6 times with a 1-second interval	The unit's temperature is too high.	<ol style="list-style-type: none"> 1. Check for loose cables in all connections. 2. Check if the fan is not spinning or obstructed by foreign objects. 3. Make sure the air vents are clear. 4. Do not use and store CHARGER 1 in environments above 60°C (140°F).
Others	/	/	Please contact BLUETTI support for assistance.

Appx. 1 FAQ

Q1: Tips for maintaining the CHARGER 1:

- A: To keep the CHARGER 1 in good condition:
- Regularly tighten the screws.
 - Keep it clean and dry.
 - Ensure proper ventilation.

Q2: Why should I start the vehicle before using CHARGER 1?

- A: Starting the vehicle ensures the car's battery has enough voltage. This prevents draining the battery while charging, which could otherwise shorten the battery's lifespan.

Q3: Does CHARGER 1 affect fuel consumption?

- A: CHARGER 1 efficiently utilizes the excess power of the car's generator for the power station, minimizing fuel consumption.

Q4: Does CHARGER 1 have safety features?

- A: Absolutely. CHARGER 1 comes with protections for reverse polarity, overcurrent, short circuit, overvoltage, and undervoltage.

Q5: Where should I place the CHARGER 1 in the car?

- A: Place the CHARGER 1 inside the vehicle's cabin or trunk as the cooling fan may produce noise when starting up.

Q6: Can CHARGER 1 damage my power station?

- A: No. Simply adjust CHARGER 1's output voltage via the app to meet your power station's specifications before connecting it.

Appx. 2 Abbreviations

- DC: Direct Current
- PV: Photovoltaic

Appx. 3 App Instructions

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



For details, please refer to *CHARGER 1 BLUETTI App User Manual*.

Appx. 4 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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

NOTE: 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.

To maintain compliance with FCC's RF Exposure guidelines, this equipment should be installed and operated with minimum distance between 20cm the radiator your body. Use only the supplied antenna.

Appx. 5 IC Warning statement

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(BT): 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.

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.

Déclaration d'exposition aux radiofréquences IC:(Con bluetooth)

Cet équipement est conforme aux limites d'exposition IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et le corps.

CAN ICES-003 (B) / NMB-003 (B)

This Class B digital apparatus complies with Canadian ICES-003.

(Cet appareil numérique de la Classe B conforme à la norme NMB-003 du Canada).

For more information, please visit:

Web: <https://www.bluettipower.com>



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@ BLUETTI Support
@ BLUETTI Official

Customer Service

Tel: **800-200-2980** (Monday to Sunday 9:00-17:00)

Email: sale@bluettipower.com (Pre-sales),
service@bluettipower.com (After-sales)

SHENZHEN POWEROAK NEWENER CO., LTD.

Add: F19, BLD No.1, Kaidaer, Tongsha Rd No.168,
Xili Street, Nanshan, Shenzhen, China

USA Responsible Party:

BLUETTI POWER INC

Add: 6185 S VALLEY VIEW BLVD STE D LAS VEGAS 89118

FRN: 0033559824

Email: liqy@bluetti.com



Warranty Card

Manufacture Date

Sale Date

File No.

Manufacturer

Warranty Instructions

1. The product comes with a 24-month warranty.
2. After-sale support: service@bluettipower.com
3. The warranty does not cover:
 - a. Damage caused by incorrect use, unauthorized repair, or disassembly.
 - b. Damage resulting from fire or force majeure events.
 - c. Lack of a clear, complete warranty card with the sales company seal.



BLUETTI

Certificate

Inspector: _____

QC: _____

Just Power On

P/N:17.0303.0774-00A0

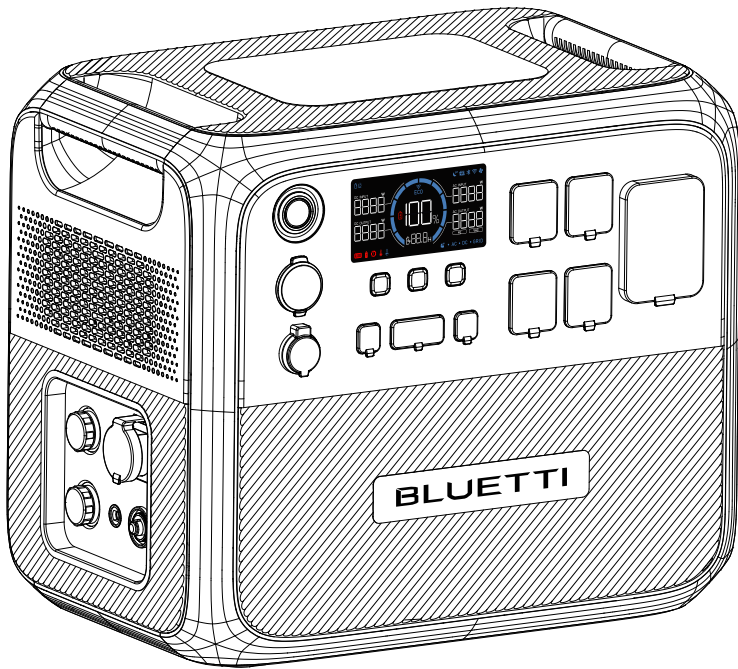
AC200P L

Portable Power Station

User Manual v2.0

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





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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1. Safety Instructions

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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.



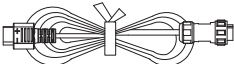
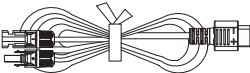
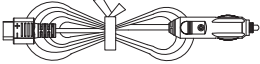



- Connect the product to a socket-outlet that has an earthing connection using the power cord provided.
- The socket-outlet should be installed near the product and easily accessible for safety purposes.
- Never dispose of a battery by throwing it into fire or a hot oven, or by mechanically crushing 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.**

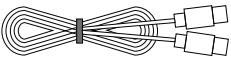
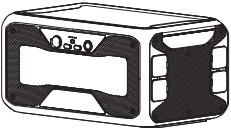
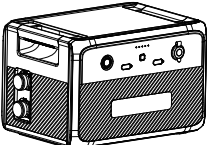
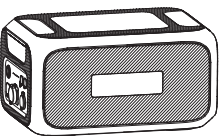
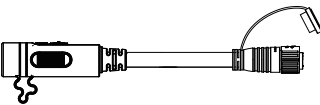
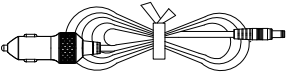
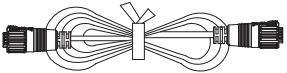
2. Packing List

Standard Accessories

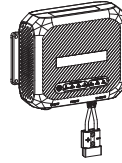
Item	Picture	Qty.
AC200P L Portable Power Station		1
AC Charging Cable (15A)		1
DC Input Cable (Work with solar / car / lead-acid battery charging cable)		1
Solar Charging Cable		1
Car Charging Cable		1
Grounding Screws		1
Product Documentation		1
Warranty Card		1

Optional Accessories

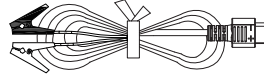
(Available on the official BLUETTI website: <https://www.bluettipower.com>)

Item	Picture
USB-C to USB-C Cable (output)	
B300 Expansion Battery	
B210P Expansion Battery	
B230 Expansion Battery	
B210P Expansion Cable	
12V DC Power Cable (For 12V devices with DC5521 port, such as routers, cameras, etc.)	
48V DC Power Cable (for D40)	

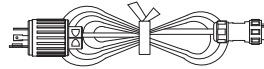
D40 Voltage Regulator



Lead-acid Battery Charging Cable
(Charge the AC200P L via a
lead-acid battery)



AC Charging Cable



3. Product Introduction

Introducing the BLUETTI AC200P L a high capacity power station that packs a powerful punch. With its impressive 2,304Wh capacity and 2,400W pure sine wave output, this powerhouse can effortlessly charge your laptop, run your fridge, and power your essential tools.

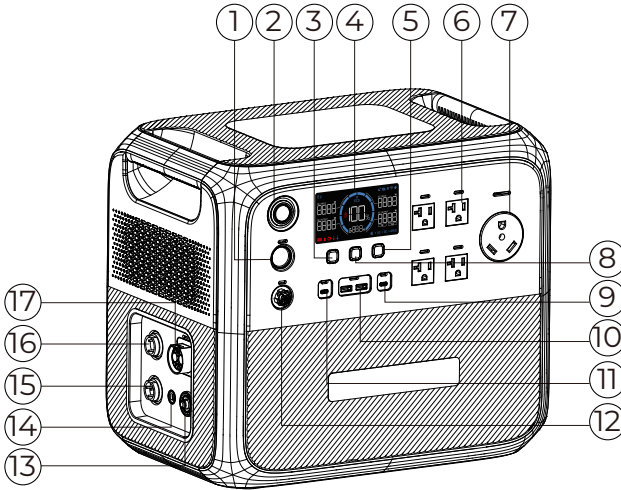
What sets the AC200P L apart is its exceptional flexibility, allowing you to tailor it to your requirements. You have the option to link up with BLUETTI's expansion batteries - the B210P, B230, and B300 - enabling you to expand your energy capacity according to your unique demands. By using two B300 units, you can elevate your total power capacity to a staggering 8,448Wh, making the AC200P L 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 AC200P L is your robust and trustworthy power solution. Power your life, wherever you are.

Danger:

Do not connect the AC output of AC200P L 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

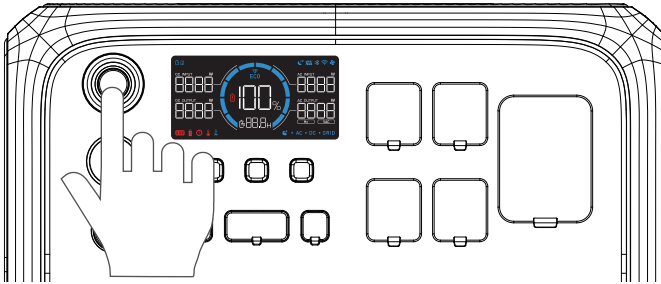
5. Power ON / OFF

Attention:

Please place the unit on the platform firmly and stably.

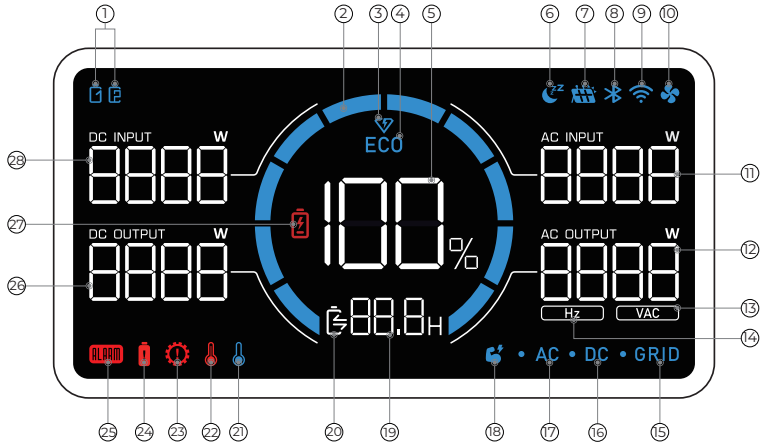
- Power ON: Press the Power Button, the button lights up indicating that the AC200P L is now on standby.
- Power OFF: Press and hold the Power Button for about 2 seconds to turn off the unit.
- AC ON / OFF: When the AC200P L is on, press the AC Power Button to turn it on / off.
- DC ON / OFF: When the AC200P L is on, press the DC Power Button to turn it on / off.
- USB ON / OFF: When the AC200P L is on, press the USB Power Button to turn it on / off.
- Restart: Power off the AC200P L first, then press the Power Button to restart.

Note: When the AC200P L is on, you can activate the LED screen by interacting with any of the buttons.




















6. LED Screen

The AC200P L 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 | ⑪ AC Input Power | ⑳ Low Temperature Alert |
| ② Charge / Discharge Progress | ⑫ AC Output Power | ㉑ High Temperature Alert |
| ③ Turbo Charging | ⑬ AC Output Voltage | ㉒ Overload Alert |
| ④ ECO Mode | ⑭ AC Output Frequency | ㉓ Overcurrent Alert |
| ⑤ Battery Capacity (SoC) | ⑮ Grid Connection | ㉔ Fault Alert |
| ⑥ Silent Charging | ⑯ DC Output | ㉕ DC Output Power |
| ⑦ DC Input | ⑰ AC Output | ㉖ DC Output Power |
| ⑧ Bluetooth Connection | ⑱ Power Lifting Mode | ㉗ Low Battery Alert |
| ⑨ WiFi Connection | ㉑ Charge / Discharge Remaining Time | ㉘ DC Input Power |
| ⑩ Fan Status | ㉒ Charge / Discharge Status | |

LCD Instructions	
Startup	LCD lights up
Shutdown	LCD lights off
Each icon represents an attached expansion battery. The AC200P L can display up to 2 battery icons.	
The bar increases during charging and decreases during discharging.	
The AC200P L is charging in Turbo Charging Mode.	
The ECO Mode is enabled to save power.	ECO
The remaining battery capacity.	100%
The AC200P L is charging in Silent Charging Mode.	
The AC200P L is charging from a DC power source, such as solar panels, lead-acid batteries, etc.	
The AC200P L connects to BLUETTI App via Bluetooth.	
The AC200P L 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.	0000
The real-time total AC output power.	0000
The real-time AC output voltage.	VAC
The real-time AC output frequency.	Hz
The AC200P L is charging from the home grid.	GRID
The DC output is turned on.	DC
The AC output is turned on.	AC
The AC200P L is operating in Power Lifting Mode.	
The remaining time of charging or discharging.	00.0H
 : 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 AC200P L is overloaded.	
The AC200P L is drawing too much current, which can cause damage to the unit or any connected devices.	
There's an issue with the AC200P L, which may require troubleshooting or repair.	ERROR
The real-time DC output power.	0000
The SoC drops below 5%.	
The real-time DC input power.	0000

7. Charging

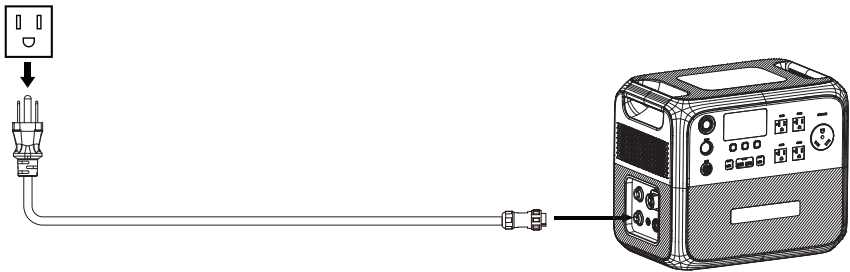
AC200P L supports five charging methods: AC, solar, car, generator, and Lead-acid battery.

⚠ 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 AC200P L into a standard wall outlet and start charging. Once it's fully charged, the AC200P L 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 60 minutes at an ambient temperature of 25°C (77°F).

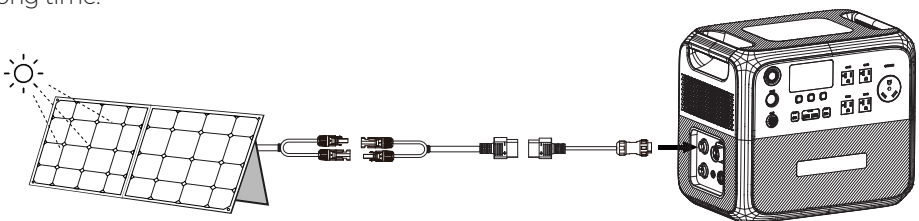


7.2 Solar Charging

Connect the solar panels (in series) to AC200P L via the DC input cable and solar charging cable. When solar panels maintain a power output of 1,200W, the AC200P L can be charged up to 100% in about 2.8 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.

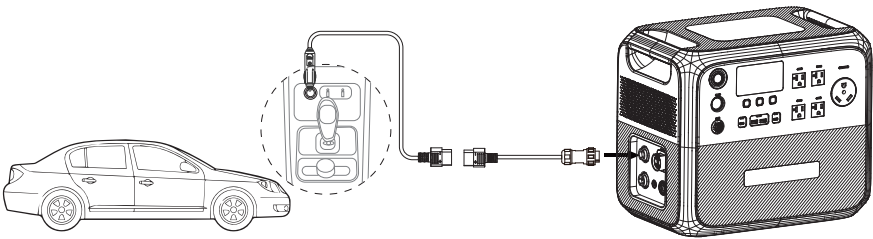


7.3 Car Charging

Connect the AC200P L to the vehicle's 12V cigarette lighter port via the DC input cable and car charging cable. The AC200P L 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.

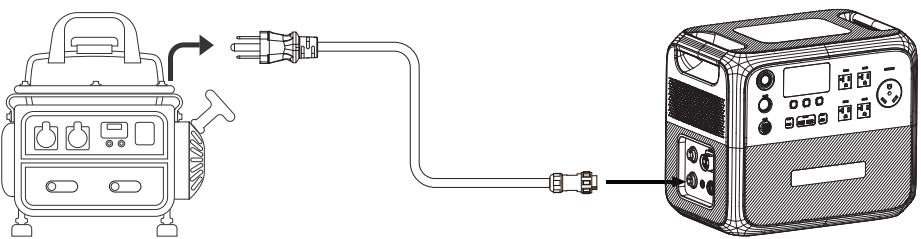


Attention:

The AC200P L 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 AC200P L to a generator via the AC charging cable. The AC200P L also automatically stops charging when it's fully charged.

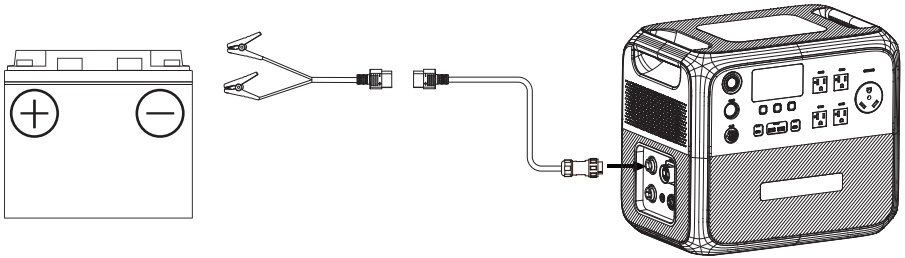


Note: Make sure your generator delivers the AC output with charging voltage, frequency, and Grid Self-adaption Mode voltage that meet AC200P L's specifications.

If the AC200P L is not charging properly through the generator, try turning on the Grid Adaptive Mode on the App.

7.5 Lead-acid Battery Charging

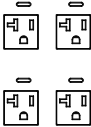

In this method, the AC200P L is charged by connecting the lead-acid battery and the AC200P L DC/PV port via the optional lead-acid battery charging cable, as shown in the figure below.







8. Discharging

Besides the cigarette lighter port, USB-A, and USB-C, AC200P L 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, 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 AC200P L 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 AC200P L.

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 AC200P L 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			Note	Icon
	AC	PV	AC+PV		
Standard	1200W Max.	1200W Max.	1200W Max.	More friendly to AC200P L's battery.	None
Turbo	2400W Max.	1200W Max.	2400W Max.	Comes in handy when recharging time is a priority.	
Silent	800W Max.	800W Max.	800W Max.	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 AC200P L can handle higher power demands, its actual operating power remains at 2,400W.

9.5 ECO Mode

The AC200P L 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 AC200P L 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 AC200P L 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 AC200P L 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 AC200P L 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 AC200P L unit seamlessly takes over to keep your devices running without any interruption.

· Time Control UPS Mode

This mode allows you to program the AC200P L to charge during off-peak hours when electricity is cheaper. Then, during peak hours when electricity is more expensive, the AC200P L 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. AC200P L 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 AC200P L 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 AC200P L 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

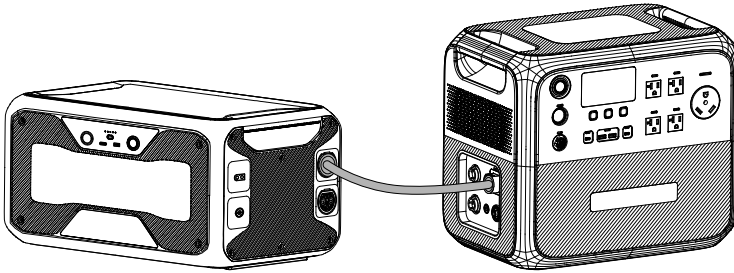
To save your AC200P L settings and exit the Setting Mode, press and hold both the DC and AC Power Buttons at the same time.

Note: If you do not perform any operation in 1 minute, the AC200P L will automatically exit the Setting Mode, and no changes will be saved.

10. Connect to Expansion Battery

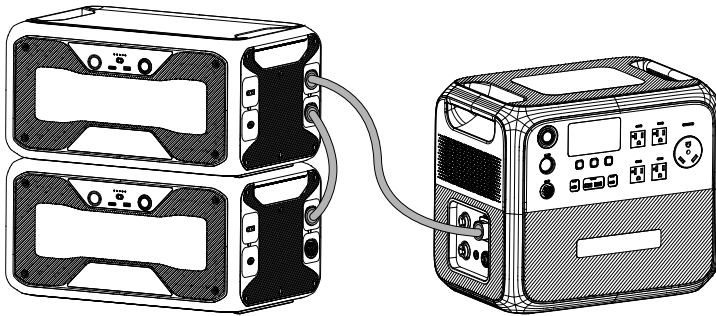
The AC200P L unit supports several types of expansion batteries to increase its power capacity, such as the B210P, B230, and B300. Follow the steps below to connect them:

1. Make sure both the AC200P L and the expansion battery are turned off.
2. Connect them using the battery expansion cable.
3. Power on the AC200P L and the expansion battery turns on automatically. The   displays on the AC200P L's screen.



(AC200P L + 1 B300)

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



(AC200P L + 2 B300)

Attention:

The AC200P L is compatible with up to two B210P 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	AC200P L
Battery Capacity	2,304Wh (45Ah)
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
48V DC Port × 1	48VDC / 8A
Wireless Charging × 2	5W/7.5W/10W/15W
AC Input	
Voltage	120VAC
Current	20A Max.
Frequency	50Hz / 60Hz
UPS	Switching time ≤20ms
Power	2,400W Max. (0%-80% in 60 minutes @ 25°C / 77°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 AC200P L will 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.  : Serial Number  : Error code  : Historical faults  : Version

14. Troubleshooting

In the Setting Mode, press and hold the DC Power Button to switch the status page until the  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		Inverter overload	Check if the power consumption of your devices is too high. Reduce the load if necessary.
E002		Inverter overtemperature protection, AC output off	Wait for about 10 minutes until the unit cools down, then turn on the AC output again.
E003		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		PV overvoltage	Make sure the PV input voltage is within the range of 12V to 145VDC.
E039		PV overtemperature	Wait for about 10 minutes until the unit cools down, then re-enable the PV input.
E065		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 output overcurrent	Check if the power consumption of your devices is too high. Reduce the load if necessary.
E068		DC output overtemperature	Wait for about 10 minutes until the unit cools down, then restart your devices.
E085		Charging temperature too high	Wait for the unit to cool down before charging.
E086		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		Discharging temperature too high	Wait for the unit to cool down before discharging.

E088		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 overfrequency	Check if the grid frequency is too high. Contact your local power provider if necessary.
E116		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 AC200P L, consider the load you're applying:

Operation time = Battery Capacity (Wh) × DoD × η ÷ (Load Power + AC200P L Self-consumption)

Note: DoD refers to the depth of discharge. AC200P L works at 95% DoD for longer battery life.

η is the conversion efficiency of the inverter, typically over 93% for AC200P L.

The self-consumption of AC200P L is approximately 12W.

E.g. If you have a 40W refrigerator, you can run it for about 39.1 hours.

Operation time = 2,304Wh × 95% × 93% ÷ (40W + 12W) ≈ 39.1 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 AC200P L (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 AC200P L.

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 AC200P L comes with the premium LiFePO₄ 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: AC200P L 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.

For more information, please visit:

Web: <https://www.bluettipower.com>



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Customer Service

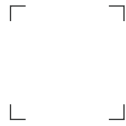
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BLUETTI



Certificate

Inspector: _____

QC: _____

Just Power On