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 for both indoor and outdoor use while delivering an exceptional eco-friendly experience for our homes and our world. That's why BLUETTI makes its presence in 70+ countries and is trusted by millions of customers across the globe.
Contents

Before You Begin 1

Safety Instructions 2
   General Safety 2
   Maintenance 3
   Handling & Storage 3

What's In The Box 4
   Standard Packaging 4

Product Overview 6
   Diagram 6
   Specifications 7

Operation 9
   Powering On/Off 9
   LCD Screen 9
   Charging 11
   Discharging 13

Appendix 14
   FAQs (Frequently Asked Questions) 14
   FCC Warning 15
   Technical Support 15
Before You Begin

The information contained herein is subject to change without notice.
For the latest version of this user manual, please visit
https://www.bluettipower.com/pages/user-guides

- The user manual contains instructions and notes on the operation and use of this unit.
- BLUETTI recommends that you use genuine accessories from BLUETTI.
- BLUETTI shall not be responsible for any damage or expense that might result from the use of parts other than genuine parts from the BLUETTI.
- For your safety and benefit, please read carefully before using and keep it handy for future reference.
Safety Instructions

General Safety

BLUETTI products are developed to be safe and reliable. Please read this guide for important safety information about your device. The guide is intended to help you be more comfortable and productive while using this device. Failure to follow these guidelines for proper set up, use, and care for your device may cause damage to this unit and injury to yourself or others.

【SAVE THESE INSTRUCTIONS!】

- Always operate or store the unit within the specified temperature range.
- DO NOT expose the unit to fire, liquids, sweat, dirt or other contaminants, as that may cause explosion or other safety risks.
- DO NOT place the unit on an unstable or tilted surface.
- Make sure the place where you are using the unit is well ventilated and spacious.
- Keep away from children and pets.
- DO NOT ignore those warning signs on components or products made by manufacturers.
- DO NOT dismantle, cut, crush, puncture, or otherwise damage the unit in any way.
- DO NOT insert foreign objects into the fan, vents, ports, or other openings.
- NEVER use a damaged battery or component. Improper use or misuse of damaged batteries may cause damage to your device or injury to yourself as a result of battery fluid leakage, fire, overheating, or explosion.
- Use approved battery and accessories ONLY. Improper use, or use of unapproved or incompatible batteries or components may result in a risk of fire, explosion, or other hazards, and may invalidate any approval or warranty.
- Turn off the unit IMMEDIATELY in case of malfunction.
- Use dry powder fire extinguisher in case of fire.
- DO NOT attempt to modify, replace the internal battery or any other component of the unit by anyone other than qualified personnel. If necessary, take it to an authorized service center as incorrect reassembly may result in a risk of fire or electric shock.
Maintenance

• When not using the unit for extended periods of time, power it off and remove all electrical connections.
• Charge the unit to 80% SOC every 3 months for best battery life.
• Clean the unit with a dry cloth gently and carefully.

Handling and Storage

• Use mechanical assistance as needed (e.g. trolleys and adjustable height workbenches).
• DO NOT stack anything on top of the unit either in storage or in use.
• Recommended storage temperature: 32°F-113°F/0°C-45°C.
What's In The Box

Standard Packaging

- Portable Power Station
- AC Adapter
- Solar Charging Cable
- Car Charging Cable
- Multifunctional DC Charging Cable
- User Manual
- 12V/25A RV Cable
- Lead-acid Battery Charging Cable
- DC7909 F-XT90 Cable

* Below accessories are not included in standard packaging and can be purchased separately at https://www.bluettipower.com
* AC Adapter: 59.1in/150cm.

**Solar Charging Cable:** 19.7in/50cm. MC4-XT90.

**Car Charging Cable:** 19.7in/50cm. Cigarette Lighter Port-XT90.

**Multifunctional DC Charging Cable:** 39.4in/100cm. XT90-Aviation

**12V/25A RV Cable:** Aviation-XT60, 59.1in/150cm;
   XT60-SPC45, 19.7in/50cm.

**Lead-acid Battery Charging Cable:** 19.7in/50cm. XT90-Clamp.

**DC7909 F-XT90 Cable:** 5.5in/14cm.

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**Note:** All measurements are for reference only. Package details are subject to change without prior notice.
Product Overview

Diagram

1. Power Button
2. Cigarette Lighter Port
3. 12V/25A RV Port
4. 12V/3A DC Port
5. PV/Car Input
6. Adapter Input
7. Wireless Charging Pad
8. LCD Screen
9. AC Output
10. USB-A Port
11. USB-C Port
## Specifications

### AC200P

<table>
<thead>
<tr>
<th>General</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Capacity</td>
<td>2000Wh/40Ah</td>
</tr>
<tr>
<td>Cell Type</td>
<td>LiFePO4</td>
</tr>
<tr>
<td>Dimensions (L<em>W</em>H)</td>
<td>16.5<em>11</em>15.2in/420<em>280</em>386mm</td>
</tr>
<tr>
<td>Weight</td>
<td>60.6lbs/27.5Kg</td>
</tr>
<tr>
<td>Discharging Temperature</td>
<td>-4°F-113°F/-20°C-45°C</td>
</tr>
<tr>
<td>Charging Temperature</td>
<td>32°F-113°F/0°C-45°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>32°F-113°F/0°C-45°C</td>
</tr>
<tr>
<td>Working Humidity</td>
<td>10%-90%</td>
</tr>
</tbody>
</table>

### AC Output

<table>
<thead>
<tr>
<th>Power</th>
<th>2000W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surge Power</td>
<td>4800W</td>
</tr>
<tr>
<td>Voltage</td>
<td>100V-120VAC</td>
</tr>
<tr>
<td>Frequency</td>
<td>50Hz-60Hz</td>
</tr>
<tr>
<td>Noise</td>
<td>&lt;1500W, 45dB Max.</td>
</tr>
<tr>
<td></td>
<td>&gt;1500W, 54dB Max.</td>
</tr>
<tr>
<td>Overload</td>
<td>2000W-2500W, 2min</td>
</tr>
<tr>
<td></td>
<td>&gt;2500W, immediately</td>
</tr>
<tr>
<td>Short Circuit Protection</td>
<td>Yes</td>
</tr>
<tr>
<td>Over Temperature Protection</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### DC Output

<table>
<thead>
<tr>
<th>Cigarette Lighter Port *1</th>
<th>Voltage 12VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current 10A</td>
</tr>
<tr>
<td></td>
<td>Overload &gt;120W, 2s</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12V/25A RV Port *1</th>
<th>Voltage 12VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current 25A</td>
</tr>
<tr>
<td></td>
<td>Overload &gt;330W, 2s</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12V/3A DC Port *2</th>
<th>Voltage 12VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current 3A</td>
</tr>
<tr>
<td></td>
<td>Overload &gt;40W, 2s</td>
</tr>
<tr>
<td></td>
<td>Voltage</td>
</tr>
<tr>
<td>----------------------</td>
<td>----------</td>
</tr>
<tr>
<td>*<em>USB-A <em>4</em></em></td>
<td>5V DC</td>
</tr>
</tbody>
</table>
| **USB-C PD2.0 *1**   | Power    | 60W Max.
| **Wireless Charging *2** | Power | 5/7.5/10/15W |

**Adapter Input**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>500W Max.</td>
</tr>
<tr>
<td>Voltage</td>
<td>100V-240VAC</td>
</tr>
<tr>
<td>Current</td>
<td>7A Max.</td>
</tr>
</tbody>
</table>

**PV Input**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>700W Max.</td>
</tr>
<tr>
<td>Voltage</td>
<td>35V-150VDC</td>
</tr>
<tr>
<td>Current</td>
<td>12A Max.</td>
</tr>
</tbody>
</table>

**Car Charging**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>11.5V-14.4VDC/23V-28.8VDC</td>
</tr>
<tr>
<td>Current</td>
<td>8.2A Max.</td>
</tr>
</tbody>
</table>

*Note*: When connected with solar panels, AC200P turns on automatically whenever there is sunlight. AC200P supports pass-through charging but doesn’t support UPS function. When the battery level drops to 5%, charge AC200P to extend battery lifespan.
Operation

Powering On/Off

Start up: Press the power button and hold for 3 seconds to start up this unit.

AC/DC Output: Tap the ‘AC ON/OFF’ or ‘DC ON/OFF’ on the screen to enable and disable.

Shut down: Press the power button to shutdown this unit. The LCD screen will shut down after several seconds.

Note: Please turn on the DC power to enable wireless charging.

LCD Screen

Homepage

This section displays the charge/discharge status and navigates to detailed product information.

![Diagram with labels a to h]

- a: PV/Car Input
- b: Battery Capacity
- c: Date/Time
- d: DC Load
- e: DC ON/OFF
- f: AC ON/OFF
- g: Adapter Input
- h: AC Load
Settings
This section provides general setting configurations, including AC output, DC input, ECO Mode*, language, buzzer, and system date/time.

| AC Output Voltage | 100V | 120V |
| AC Output Frequency | 50Hz | 60Hz |
| DC1 Input Source | PV | Car |
| ECO Mode | Yes | NO |

Language Setting | English | 日本語 |
Buzzer Setting | ON | OFF |
System Date Setting | 2020-05-23 |
Time Setting | 18:18:18 | OK |

Note: Check all settings before first use. Please set the system date and time every 2 weeks. Voltage and frequency for reference: US: 120V/60Hz JP: 100V/50Hz/60Hz

Data
This section provides all basic information including product, inverter and charger, BMS maintenance, and fault history.

PRODUCT Info.
Inverter & Charger Info.
BMS Maintenance
Fault History

Note: ‘Inverter&Charger Info.’ indicates the output and input status of this unit; ‘BMS Maintenance’ indicates the connection status of battery pack(s); ‘Fault History’ records all the error codes. When the error occurs, its indicator will turn orange.

* When in this mode, the AC output will automatically turn off after 4-hour low (≤50W) or no load to save power.
Charging

Adapter Charging
Plug the AC200P into a standard wall outlet, and press the power button to start charging.

PV Charging
Connect the solar panels (in series or parallel) to AC200P via the multifunctional DC charging cable and solar charging cable.

Note: Make sure your solar panels have an open circuit voltage of 35V-150V.

Recommended BLUETTI Solar Panels

<table>
<thead>
<tr>
<th>Model</th>
<th>PV120</th>
<th>PV200</th>
<th>PV350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Circuit Voltage (Voc)</td>
<td>24.4V</td>
<td>26.1V</td>
<td>46.5V</td>
</tr>
<tr>
<td>Power</td>
<td>120W</td>
<td>200W</td>
<td>350W</td>
</tr>
<tr>
<td>Quantity (Wired in Series)</td>
<td>2-6</td>
<td>2-5</td>
<td>1-3</td>
</tr>
</tbody>
</table>
i) AC200P supports up to 700W solar input. In other words, if you’re using solar panels with a total power of 800W to charge AC200P, the extra 100W will not be needed for charging but squander away directly.

ii) Do not use solar panels with an open circuit voltage of over 150V, as this may cause damage to AC200P.

iii) At least 2 pieces of PV120 or PV200 are required to charge AC200P.

**Car Charging**

Connect AC200P to the vehicle plug-in cigarette lighter port via multifunctional DC charging cable and car charging cable. Press the power button to start charging.

*Note:* Set the ‘Car’ as DC input source to enable car charging. The vehicle cigarette lighter port can at least support 8.2A.

**Generator Charging**

Connect AC200P to the generator’s AC outlet via AC adapter, and press the power button to start charging.
12V/24V Lead-acid Battery Charging
Connect AC200P to the battery via multifunctional DC charging cable and
lead-acid battery charging cable*. Clamp the positive connector (red) to the
positive battery terminal and negative (black) to the other.

*The lead-acid charging cable is for recharging AC200P ONLY. Please contact BLUETTI
customer service for details and get it directly from https://www.bluettipower.eu

Note: Set the ‘Car’ as DC input source to enable lead-acid battery charging.
If charging AC200P with a 12V lead-acid battery, make sure it discharges at
above 11.5V. If it’s a 24V lead-acid battery, the discharge voltage should be
higher than 23V.
The Max. input current is 8.2A.

Discharging

- When we run a large power load such as a 650W coffee maker.
  \[2000\text{Wh} \times \text{DoD} \times \eta \div (\text{load power}) = \text{discharging time (estimated)}\]
- When we run a small operating power load such as a 40W refrigeritor.
  \[2000\text{Wh} \times \text{DoD} \times \eta \div (\text{load power}+\text{self-consumption of AC200P}) = \text{discharging time (estimated)}\]

Note: DoD refers to the Depth of Discharge, \(\eta\) is the local inverter efficiency. DoD=90%, \(\eta\)=90%.
DoD may vary depending on ambient-operating temperature and discharge rate.
Load power and charging time are measured in Watt and Hour.
Appendix

FAQs (Frequently Asked Questions)

Q: How do I know whether my devices will work well with this product?
A: Please evaluate the total constant load of your appliances. If it doesn’t exceed the Max. output power of AC200P, you can use this power station.

Q: Can I use third-party solar panels to charge this product?
A: Yes, you can. Make sure your solar panels have an open circuit voltage of 35V-150V and have the MC4 connectors. Please do NOT mix different types of solar panels.

Q: What does the Depth of Discharge (DoD) refer to?
A: DoD indicates the fraction of power that can be withdrawn from the battery. The BLUETTI AC200P sets the DoD to 90%, which means that 90% of the capacity is available to power your device, while the reserved is used to protect the battery from over-discharging.

Q: Can it charge and discharge at the same time?
A: Yes, but it has no UPS feature.

Q: How to disable the touch screen sound?
A: Sorry, it cannot be turned off.

Q: How to put the screen to sleep while charging and discharging?
A: The screen has no sleep mode and stays on whenever AC200P charges or discharges.

Q: Can it run my refrigerator, window air conditioner or power drill?
A: Yes, but they typically require a startup power of 5-7 times the rated, easily overloading AC200P.

Q: Can two AC200P be paired for higher output voltage, power and capacity?
A: No.

Q: Can the AC200P be connected to the home circuit breaker box?
A: No.

Q: Why does the screen display 0 watt output when I plug in a small load, like a 35W LED lamp?
A: The current is too small to be measured accurately when connected to low loads.

Q: Why only one fan is running?
A: There are intelligent control program in the unit, when total output power is between 1000W-1500W, only one fan is running, when it exceeds 1500W, both fans are running.
FCC Warning
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.
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
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:
1) Reorient or relocate the receiving antenna.
2) Increase the separation between the equipment and receiver.
3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4) Consult the dealer or an experienced radio/TV technician for help.
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Technical Support
Should you require any further assistance, please do not hesitate to contact BLUETTI Customer Service.