User Manual V2.0

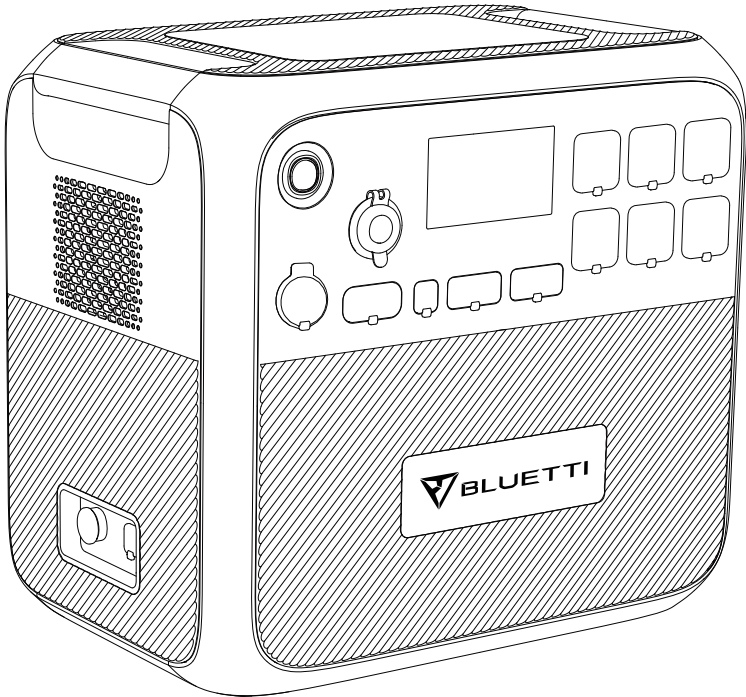# BLUETTI AC200P

BLUETTI

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

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℃-45℃.

What's In The Box

Standard Packaging

Portable Power Station

AC Adapter

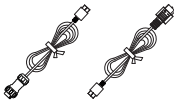Solar Charging Cable

Car Charging Cable

Multifunctional DC
Charging Cable

User Manual

BLUETTI AC200P

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

12V/25A RV Cable

Lead-acid Battery
Charging Cable

DC7909 F-XT90 Cable

* **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.

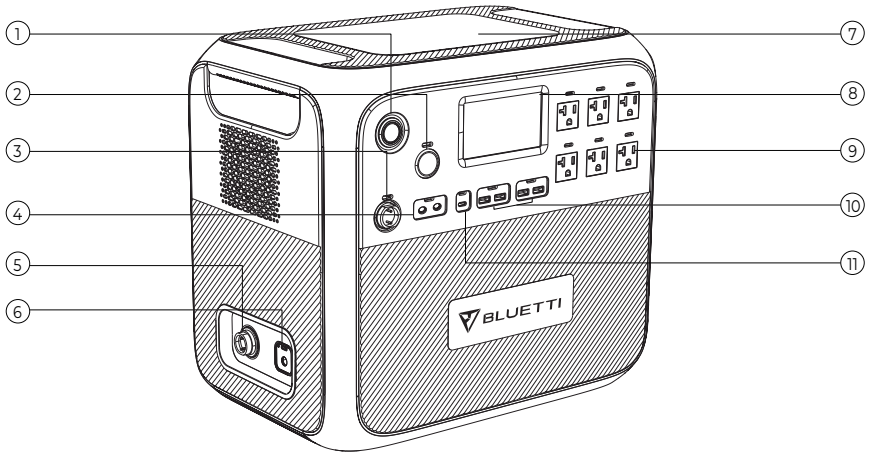**Lead-acid Battery Charging Cable:** 19.7in/50cm. XT90-Clamp.

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

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

AC Output	
Power	2000W
Surge Power	4800W
Voltage	100V-120VAC
Frequency	50Hz-60Hz
Noise	<1500W, 45dB Max.
	>1500W, 54dB Max.
Overload	2000W-2500W, 2min
	>2500W, immediately
Short Circuit Protection	Yes
Over Temperature Protection	Yes

DC Output		
Cigarette Lighter Port *1	Voltage	12VDC
	Current	10A
	Overload	>120W, 2s
12V/25A RV Port *1	Voltage	12VDC
	Current	25A
	Overload	>330W, 2s
12V/3A DC Port *2	Voltage	12VDC
	Current	3A
	Overload	>40W, 2s

USB-A *4	Voltage	5VDC
	Current	3A
USB-C PD2.0 *1	Power	60W Max.
Wireless Charging *2	Power	5/7.5/10/15W

Adapter Input	
Power	500W Max.
Voltage	100V-240VAC
Current	7A Max.

PV Input	
Power	700W Max.
Voltage	35V-150VDC
Current	12A Max.

Car Charging	
Voltage	11.5V-14.4VDC/23V-28.8VDC
Current	8.2A Max.

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

Startup and shutdown: Press the power button to start up this unit and hold for 2s to shut down.

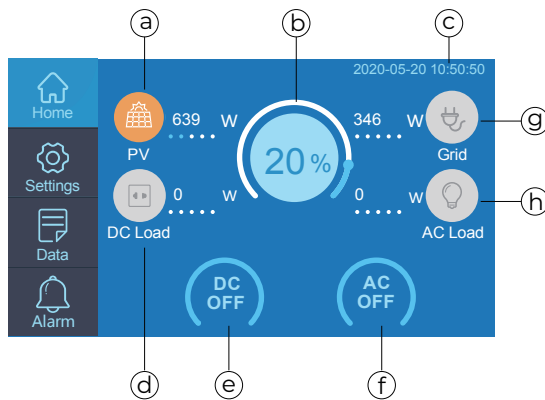**AC/DC Output:** Tap the 'AC ON/OFF' or 'DC ON/OFF' on the screen to enable and disable.

Symptom	LED Indicator
Start up	On
Shut down	Off
BMS Over-current/Short-circuit Protection	Flash and then off
BMS Start-up Timeout	Flash and steady green

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.

a: PV/Car Input   e: DC ON/OFF
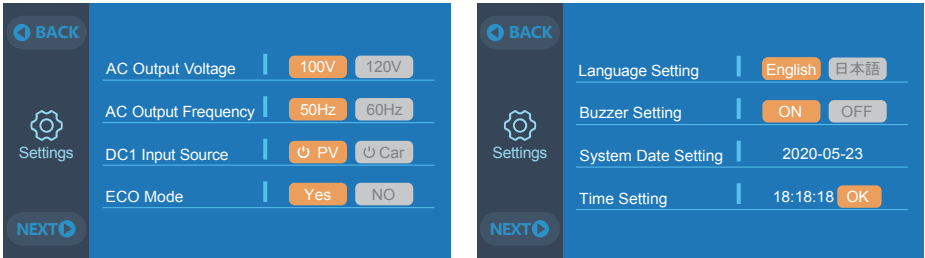
b: Battery Capacity   f: AC ON/OFF

c: Date/Time   g: Adapter Input

d: DC Load   h: AC Load

Settings

This section provides general setting configurations, including AC output, DC input, ECO Mode*, language, buzzer, and system date/time.
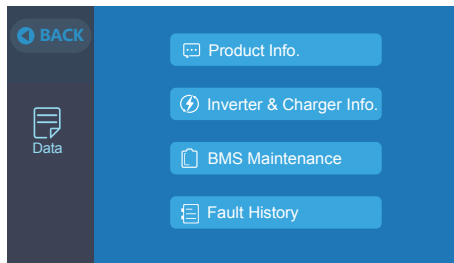
◀ BACK		
	AC Output Voltage	100V 120V
⚙ Settings	AC Output Frequency	50Hz 60Hz
	DC1 Input Source	⏻ PV ⏻ Car
	ECO Mode	Yes NO
NEXT ▶		

◀ BACK		
	Language Setting	English 日本語
⚙ Settings	Buzzer Setting	ON OFF
	System Date Setting	2020-05-23
	Time Setting	18:18:18 OK
NEXT ▶		

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.

◀ BACK	
	💬 Product Info.
📄 Data	⚡ 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);
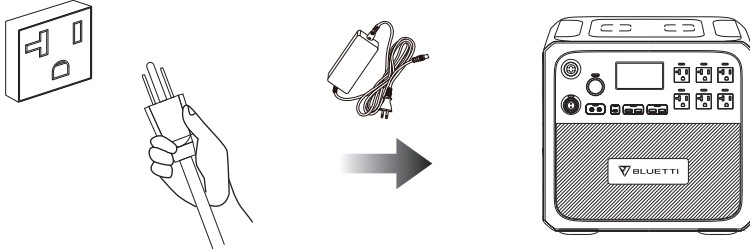'Fault History' records all the error codes. When the error occurs, its indicator will turn orange.

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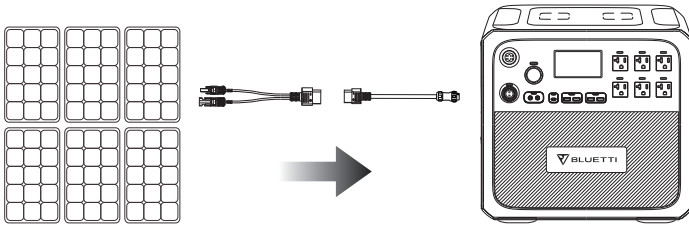
Charging

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.

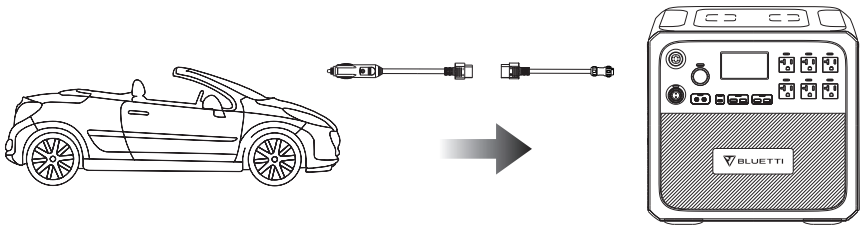

Recommended BLUETTI Solar Panels

Model	PV120	PV200	PV350
Open Circuit Voltage (Voc)	24.4V	26.1V	42V
Power	120W	200W	350W
Quantity (Wired in Series)	2-6	2-5	1-3

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.

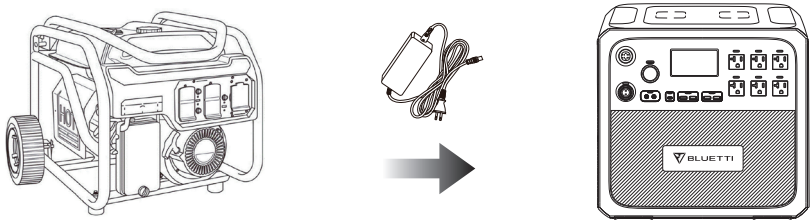iii) At least 2 pieces of PV120 or PV200 are required to charge AC200P.

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.
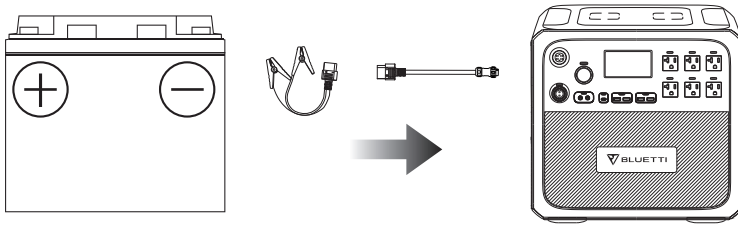

Generator Charging

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.

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

| Cellphone 150-160 Times 10Wh | LED Light 75-85hrs 20W | TV 20-22hrs 75W |
| Power Tools 19-20hrs 80W | Fridge 17-19hrs 90W | Slow Cooker 8-9hrs 200W |

2000Wh* × DoD × η ÷ (load power) = charging time (estimated)

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

* 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.com/products/12v-24v-lead-acid-battery-charging-cable.

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.

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.

For more information, please visit:

@ BLUETTI Support
@ BLUETTI Official

@ bluetti_inc

@ bluetti.inc

@ bluetti_us

service@bluetti.com

P/N:17.0303.0042-02A2

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Just Power On