

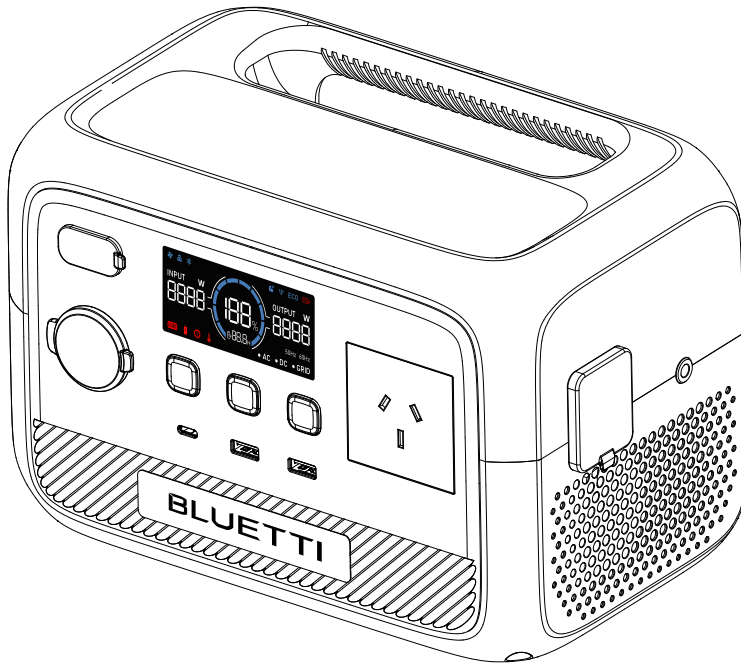
AC2A

Portable Power Station

User Manual v3.0

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 28V. Solar input voltage range for the unit is 12V-28VDC.
3. Charge the unit immediately when the SoC drops below 5%. If the SoC drops to 0, power off the unit and charge it for at least 30 minutes before restarting.
4. The unit is for off-grid use only. Do not connect its AC output to the grid.
5. If not used for more than 3 months, charge the unit to 40%-60% SoC and store it with the power off. For optimum battery life, discharge and charge the unit every 3 months.

Thank You!

Thank you for making BLUETTI a part of your family.

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

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



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

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

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1. Safety Instructions

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

1.1 Statement

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

- Always operate or store the product in the conditions specified in this manual.
- Avoid unauthorized disassembly, component replacement, or modification of software codes.

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

- Force majeure events such as earthquakes, fires, storms, floods, or mudslides.
- Damage caused by the customer's own transportation.
- Damage resulting from inadequate storage conditions as specified in the manual.
- Damage caused by customer negligence, improper operation, or intentional actions.
- System or hardware damage caused by third parties or customers, including but not limited to improper handling and installation not in accordance with the instructions in this manual.
- Usage of the product with devices that require a high-performance Uninterruptible Power Supply (UPS), including but not limited to data servers, workstations, medical equipment, and other similar devices.

1.2 General Requirements

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

WARNING:

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

- Read all the instructions before using the product.
- To reduce the risk of injury, close supervision is necessary when the product is used near children.
- Do not put fingers or hands into the product. And do not insert foreign objects into any

ports of the product.

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

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

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

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

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

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

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

- **PERSONAL PRECAUTIONS**

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

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

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

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

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

- Do not expose the product to fire or excessive temperature. Exposure to fire or temperature above 130°C (266°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 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 product 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 40°C (-4°F to 104°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 product 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.


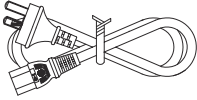
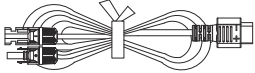



- Connect the product to a socket-outlet that has an earthing connection using the power cord provided.
- The socket-outlet should be installed near the product and easily accessible for safety purposes.
- Never dispose of a battery by throwing it into fire or a hot oven, or by mechanically crushing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

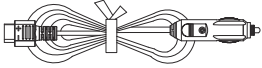
2. Packing List

Standard Accessories

Item	Picture	Qty.
AC2A Portable Power Station		1
AC Charging Cable		1
Solar Charging Cable		1
Grounding Screws		1
User Manual		1
Warranty Card		1

Optional Accessory

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

Item	Picture
Car Charging Cable	

3. Product Introduction

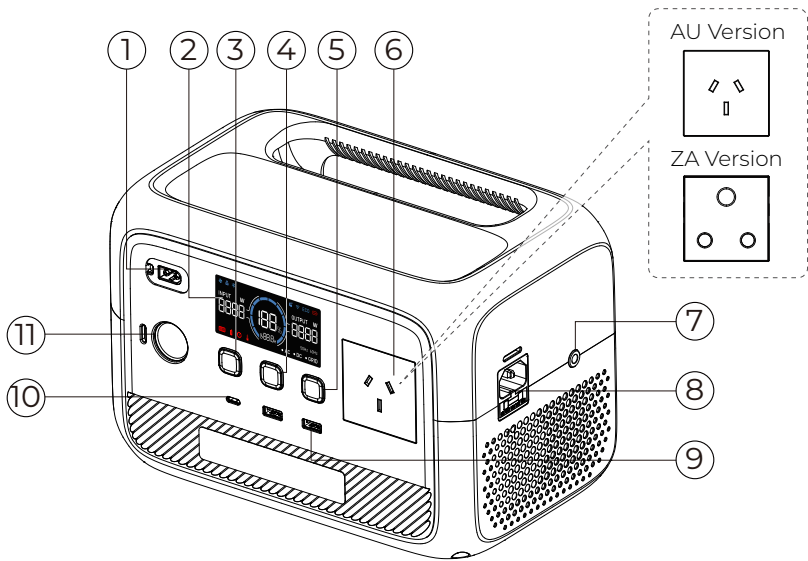
Introducing the BLUETTI AC2A, your perfect partner for lightweight and minimalist travel. With its 204.8Wh capacity and 300W output, it effortlessly charges smartphones, cameras, lights, laptops, drones, and more. Pair it with solar panels to extend its usage time, ensuring you stay powered up throughout your trip. Even if your plans change and you decide to stay longer, a 90-minute fast charge can bring unexpected joy and convenience.

But it's not just for travel - it's also ideal for gatherings at home. Power your favorite devices, whether it's music speakers, ambient lighting, or other entertainment gadgets, to create an unforgettable delightful atmosphere. Get ready to experience the true potential of portable power with the AC2A!

 **Danger:**

Do not connect the AC output of AC2A to the grid.

4. Product Overview



① DC Input

② LCD Display

③ DC Power Button

④ POWER Button

⑤ AC Power Button

⑥ AC Outlet

⑦ Grounding Pole

⑧ AC Input

⑨ USB-A Port

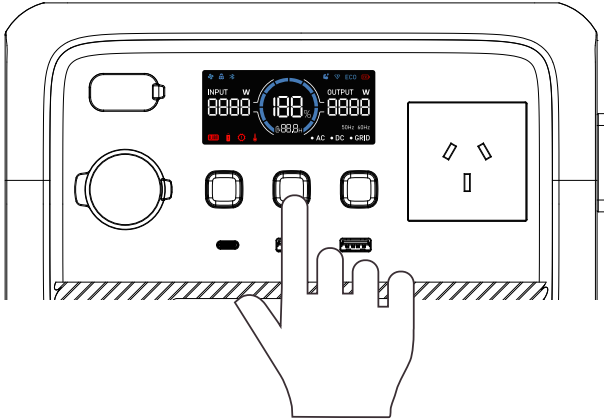
⑩ USB-C Port

⑪ Cigarette Lighter Port

5. Power ON / OFF

Attention:

Please place the unit on the platform firmly and stably.



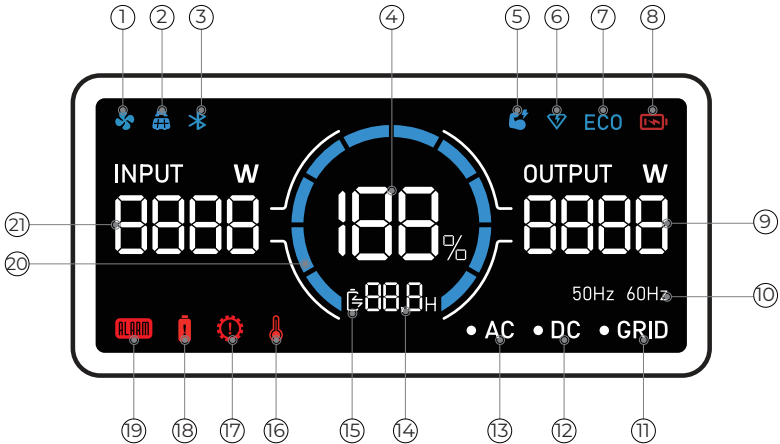
- Power ON: Press and hold the POWER Button for about 2 seconds, the button lights up indicating that the AC2A is now on standby.
- Power OFF: Press and hold the POWER Button for about 2 seconds to turn off the unit.
- AC ON / OFF: When the AC2A is on, press the AC Power Button to turn it on / off.
- DC ON / OFF: When the AC2A is on, press the DC Power Button to turn it on / off.
- Restart: Power off the AC2A first, then press the POWER Button to restart.

Note: When the AC2A is on, you can activate the LCD display by interacting with any of the buttons.













When AC and DC is off for more than 1 minute, the AC2A will be off automatically.

6. LCD Display

The AC2A features an informative LCD display that offers easy access to all the essential information about the unit's status and performance. When you power on the unit, the LCD display lights up, and when you power off the unit, the display turns off as well.



- | | | |
|--------------------------|-------------------------------------|-------------------------------|
| ① Fan Status | ⑧ Low Battery Alert | ⑮ Charge / Discharge Status |
| ② PV Input | ⑨ Output Power | ⑯ High Temperature Alert |
| ③ Bluetooth Connection | ⑩ AC Output Frequency | ⑰ Overload Alert |
| ④ Battery Capacity (SoC) | ⑪ Grid Connection | ⑱ Overcurrent Alert |
| ⑤ Power Lifting Mode | ⑫ DC Output | ⑲ Fault Alert |
| ⑥ Turbo Charging | ⑬ AC Output | ⑳ Charge / Discharge Progress |
| ⑦ ECO Mode | ⑭ Charge / Discharge Remaining Time | ㉑ Input Power |

LCD Instructions	
Startup	LCD lights up
Shutdown	LCD lights off
When it lights up, the fan is activated and working properly. If it flashes, there may be a problem with the fan.	
The AC2A is charging from solar panels.	
The AC2A connects to BLUETTI App via Bluetooth.	
The remaining battery capacity.	
The AC2A is operating in Power Lifting Mode.	
The AC2A is charging in Turbo Charging Mode.	
The ECO Mode is enabled to save power.	ECO
The SoC drops below 5%.	
The real-time total output power.	
The real-time AC output frequency.	50Hz 60Hz
The AC2A is charging from the home grid.	GRID
The DC output is turned on.	DC
The AC output is turned on.	AC
The remaining time of charging or discharging.	
 : Charging  : Discharging	
The temperature inside the unit is higher than 70°C (158°F).	
The AC2A is overloaded.	
The AC2A is drawing too much current, which can cause damage to the unit or any connected devices.	
There's an issue with the AC2A, which may require troubleshooting or repair.	BLUDD
The bar increases during charging and decreases during discharging.	
The total input power.	

7. Charging

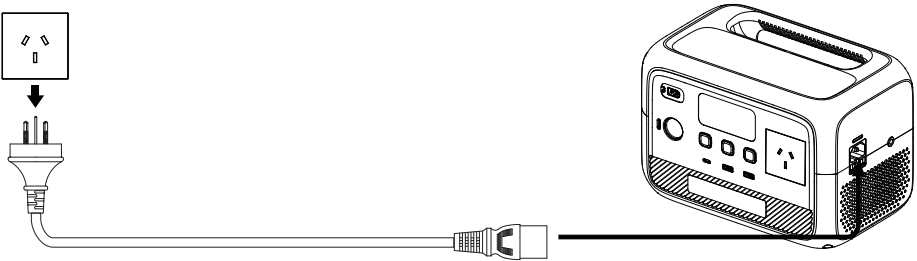
AC2A supports four charging methods: AC, solar, car, and generator.

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 AC2A into a standard wall outlet and start charging. Once it's fully charged, the AC2A automatically stops charging to prevent overcharging. For a fast charge, you can enable Turbo Charging in the BLUETTI App, which allows for an 80% capacity in just 45 minutes at an ambient temperature of 25°C (77°F).

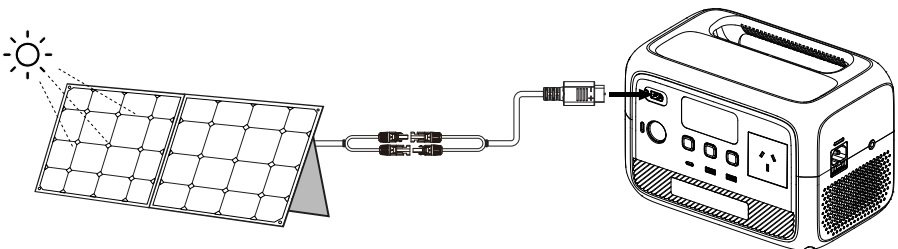


7.2 Solar Charging

Connect the solar panels (in series or parallel) to AC2A via the solar charging cable. When receiving a continuous input of 200W, the AC2A will automatically stop charging within 1.5 hours. However, please be aware that the charging time may vary based on weather conditions, sunlight intensity, panel orientation, and other variables.

Note: Make sure your solar panel(s) meet the following requirements:

Voc: 12V-28V Current: 8.2A Max. Power: 200W Max.

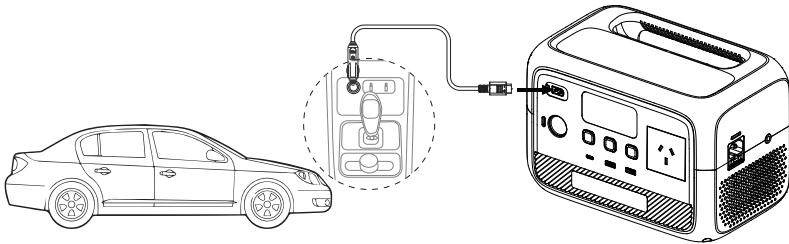


7.3 Car Charging

Connect AC2A to the vehicle's 12V cigarette lighter port via the car charging cable. The AC2A 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.

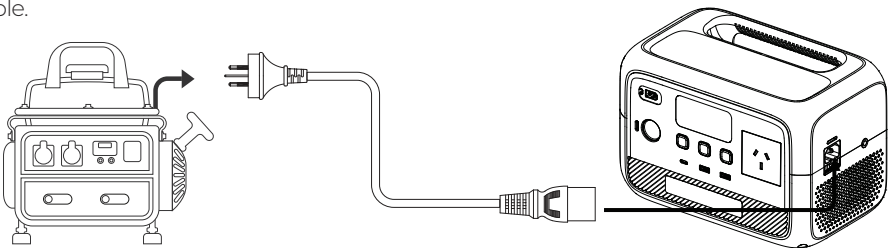


Attention:

The AC2A 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 AC2A to a generator via the AC charging cable. The AC2A will also automatically stop charging when it's fully charged, typically within 1.4 hours if the generator output is stable.



Note: Make sure your generator delivers the AC output with charging voltage, frequency, and Grid Self-adaption Mode voltage that meet AC2A's specifications.

If the AC2A cannot be charged via the generator properly, please try to turn on the Grid Self-adaption Mode on App.

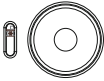


8. Discharging

8.1 AC Discharging

Port	Specifications	Compatible Loads
AC Outlet x1	230V 50Hz / 60Hz	Appliances up to 300W power.

Note: Do not apply AC2A to loads higher than 300W, as this may cause damage to AC2A and your devices.

8.2 DC Discharging

Port	Picture	Specifications	Compatible Loads
Cigarette Lighter Port x1		12V / 10A	12V DC appliances up to 120W power. e.g. car refrigerator
USB-A x2		5V / 2.4A	Mobile phones and other small loads.
USB-C x1		5/9/12/15/20V, 3A; 20V / 5A	Mobile phones, laptops, etc.

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 AC2A offers the convenience of adjusting its settings either via physical buttons or the BLUETTI App. With the buttons located on the device itself, you have direct control over various settings such as ECO Mode, Power Lifting Mode, output frequency, charging modes, and other functionalities. Additionally, by using the BLUETTI App, you can access a user-friendly interface on your phone to conveniently monitor and control the AC2A.

9.1 Setting Mode

When the display 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 ECO Mode

The AC2A has two ECO modes that help you save power and extend battery life:

- AC-ECO Mode

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

- DC-ECO Mode

In this mode, if the DC power output falls below or remains at 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 LCD display, 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 15W of power.


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

9.3 Frequency Switching

The current output frequency (50Hz / 60Hz) is displayed in the lower right corner of the display. When the AC output is off, in the Setting Mode, press the AC Power Button to

switch the frequency options based on your requirements.


9.4 Power Lifting Mode


The Power Lifting Mode is specifically designed to handle resistive loads up to 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 300W-600W.

Although the AC2A can handle higher power demands, its actual operating power remains at 300W.

9.5 AC Charging Mode

The AC2A 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  icon starts flashing on the screen (P03). Then, press the AC power button to choose the Turbo mode.

Mode	Recharging Time	Note	Icon
Standard	2 hours	More friendly to AC2A's battery. It can only be configured using the BLUETTI App.	None
Turbo	80% charge in 40 minutes; full charge in 70 minutes	Comes in handy when recharging time is a priority.	
Silent	4 hours	Offers a quiet, low-power operation for long battery life. It can only be configured using the BLUETTI App.	None

9.6 Grid Self-adaption Mode

If you can not charge the AC2A properly using a generator or unstable grid voltage, it is recommended that you enable the Grid Self-adaption Mode through the BLUETTI App to ensure a stable, safe charging experience for both the AC2A and your devices.

9.7 Exit Setting Mode

To save your AC2A settings and exit the Setting Mode, press and hold both the AC and DC Power Buttons at the same time.

Note: If you do not perform any operation in 1 minute, the AC2A will automatically exit the Setting Mode, and no changes will be saved.

10. 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.

11. Specifications












Model	AC2A
Battery Capacity	204.8Wh / 8Ah
Cell Type	Lithium Iron Phosphate (LiFePO ₄ , LFP)
AC + DC Charging Power	570W Max.
Weight	3.6kg / 7.9lbs
Dimensions (L × W × H)	250mm × 156.5mm × 174.5mm / 9.8in × 6.1in × 6.8in
Charging Temperature	0°C to 40°C
Discharging Temperature	-20°C to 40°C
Storage Temperature	-20°C to 40°C
Working Humidity	10% to 90%
AC Output	
Power	300W in total
Voltage	230VAC
Current	1.3A
Frequency	50Hz / 60Hz
DC Output	
Cigarette Lighter Port × 1	12VDC / 10A
USB-A × 2	5V / 2.4A
USB-C × 1	5 / 9 / 12 / 15 / 20VDC, 3A; 20VDC / 5A
AC Input	
Voltage	230VAC
Max. Current	2.5A
Frequency	50Hz / 60Hz
UPS	Switching time ≤20ms
Charging Power	270W Max. (0%-80% in 45 minutes @ 10°C-30°C / 50°F-86°F)
Input Power	570W Max. (pass-through charging, 270W charging power + 300W load power)
DC Input	
Interface	XT60PM-M
Power	200W Max.
Current	8.2A Max.
Voltage	12V to 28VDC






12. 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 USB-A, USB-C, DC 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 AC2A 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
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

13. Troubleshooting

In the Setting Mode, press and hold the DC Power Button for more than 2 seconds until the error code appears on the display. 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 28VDC.
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).
E113		Grid overvoltage	Check if the grid voltage is too high. Change the input source if necessary.
E114		Grid undervoltage	Check if the grid voltage is too low. Change the input source if necessary.
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.

Appx. 1 Estimating Operation Time

To estimate the operation time of the AC2A, consider the load you're applying:

Operation time = Battery Capacity (Wh) x DoD x η ÷ (Load Power + AC2A Self-consumption)

Note: DoD refers to the depth of discharge. AC2A works at 90% DoD for longer battery life.

η is the conversion efficiency of the inverter, typically over 85% for AC2A.

The self-consumption of AC2A is approximately 12W.

E.g. If you have a 40W refrigerator, you can run it for about 3 hours.

Operation time = 204.8Wh x 90% x 85% ÷ (40W + 12W) \approx 3 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 AC2A (300W), 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 AC2A.

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-28V 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 AC2A 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: AC2A 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.

For more information, please visit:



@ BLUETTI Support
@ BLUETTI Official



@bluetti_official



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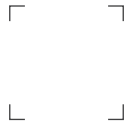
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