

Elite 10

Portable Power Station

User Manual v1.0

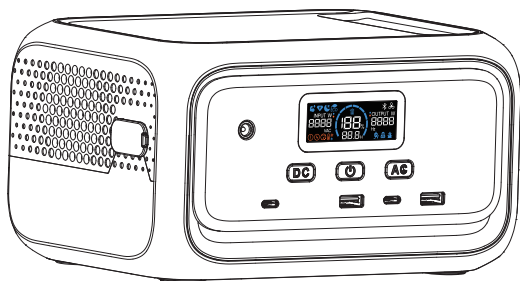
Important Instructions

For optimal performance, **update your unit to the latest firmware before first use.**

See the appendix "Update Firmware via BLUETTI App" for guidance.

Read and understand this manual before use and keep it handy for future reference.





Tips

1. Fully charge the unit before first use.
2. Do not use solar panels with open circuit voltage higher than 28 V. Solar input voltage range for the unit is 12 V-28 V.
3. If the unit's SoC falls below 5%, please recharge the unit in time. If the SoC drops to 0, power off the unit and charge it for at least 30 minutes before restarting.
4. Do not connect the unit's 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.
6. For optimum battery life, discharge and charge the unit every 3 months.

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The contents of this manual are subject to change without notice. Please obtain the latest version from BLUETTI official website.

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

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1. Safety Instructions

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

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

- Read all the instructions before using the product.
- Handle the product with care, avoiding drops, violent impacts, or tilting.
- To reduce the risk of injury, close supervision is necessary when the product is used near children.
- Do not put fingers or foreign objects into the product's ports.
- Use of an attachment not recommended or sold by the manufacturer may result in a risk of fire, electric shock, or injury to persons.
- Do not move the product during operation to avoid poor connections.
- Do not expose the battery to high temperatures, as this may cause an explosion or leakage of flammable liquids or gases.
- Do not use the product in the rain or high humidity environments.
- Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.
- Handle the product with caution in low air pressure environments to prevent explosions or leaks.
- Charge the product in a well-ventilated area.
- Under abusive conditions, liquid may be ejected from the product's battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Battery liquid may cause irritation or burns.
- In case of fire, use a dry powder fire extinguisher appropriate for the product.
- Never dispose of the product's battery in fire, hot ovens, or by cutting it.
- 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.
- Do not disassemble the product; take it to a qualified service person if service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.
- Unplug the product before any servicing to reduce the risk of electric shock.
- **WARNING - RISK OF EXPLOSIVE GASES.** Follow these instructions and those published by the manufacturer of any equipment you intend to use in the vicinity of the product to reduce the risk of battery explosion.

- **WARNING - RISK OF ELECTRIC SHOCK.** Never use the product to power tools to cut or access live parts, wiring, or materials containing them, such as building walls.
- Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
-   The symbols on the unit and its accessories are intended to remind you to read the instructions in the literature accompanying the product before operation and maintenance.
- The socket-outlet should be installed near the product and easily accessible for safety purposes.
- Avoid contact with any liquids, do not use this product in the rain.
- Connect the product to a socket-outlet that has an earthing connection using the power cord provided.

Disposal and Recycling

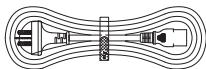
1. Take old electronic components and batteries to designated recycling centers. This prevents improper disposal and supports material recovery.
2. If possible, fully discharge the batteries and then place them in designated battery recycling boxes. The batteries in this product contain hazardous chemicals. Do not dispose of them with regular household waste. Follow local laws and regulations for proper battery disposal.
3. If a battery cannot fully discharge due to a product malfunction, do not place it in the battery recycling box. Instead, contact a professional battery recycling organization for safe handling.

SAVE THESE INSTRUCTIONS

2. Packing List



Elite 10
Portable Power Station



AC Charging Cable

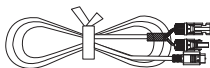


Documents

The following accessories are not included.

Please purchase optional accessories at <https://www.bluetipower.com>

Note: All images are for reference only.



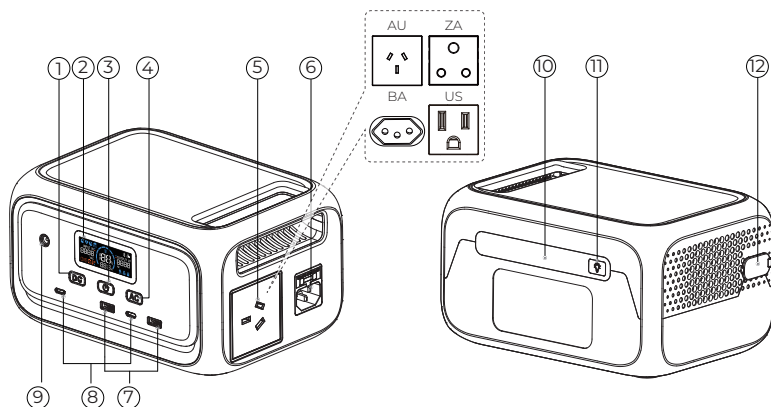
Solar Charging Cable



Car Charging Cable

3. Get to Know Your Elite 10

3.1 Overview



① DC Power Button

② LCD Display

③ Power Button

④ AC Power Button

⑤ AC Outlet

⑥ AC Input

⑦ USB-A Ports

⑧ USB-C Ports

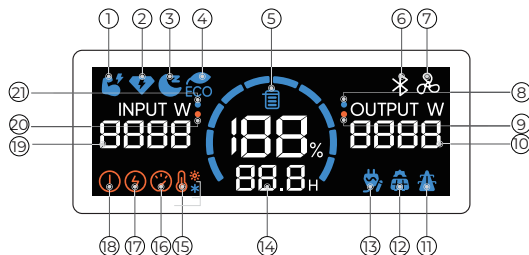
⑨ DC5521 Port

⑩ LED Light

⑪ Light Button

⑫ DC Input

3.2 LCD Display



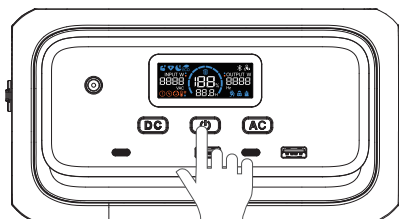
- | | | |
|------------------------|------------------------------|-----------------|
| ① Power Lifting Mode | ⑧ Output Active | ⑮ High/Low Temp |
| ② Turbo Charging | ⑨ Output Alarm | ⑯ Overload |
| ③ Silent Charging | ⑩ Output Power | ⑰ Overcurrent |
| ④ ECO Mode | ⑪ AC Input | ⑱ System Fault |
| ⑤ Charge Limit* | ⑫ DC Input | ⑲ Input Power |
| ⑥ Bluetooth Connection | ⑬ AC Output Restore* | ⑳ Input Alarm |
| ⑦ Fan Active | ⑭ Remaining Discharging Time | ㉑ Input Active |

* **Charge Limit:** Charging stops when the set limit is reached.

AC Output Restore: When the battery is depleted or reaches the SoC low value, which causes the unit to shut down, the AC output status will be saved and automatically restored once connected to grid power.

4. Use Your Elite 10

4.1 Power On/Off



Power On

Press the power button; the lit button indicates that the Elite 10 is on standby.

Power Off

Long press the power button for about 2 seconds to turn off the unit.

AC On/Off

Press AC power button when Elite 10 is on.

DC On/Off

Press DC power button when Elite 10 is on.

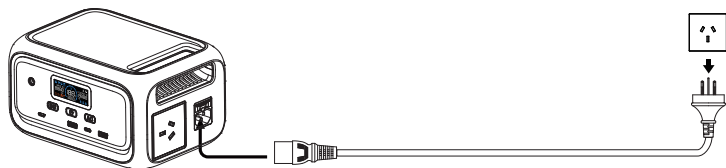
Note: When Elite 10 is on, press any button to activate the display.

4.2 Charging Options

Wall Outlet

Plug the Elite 10 into a standard wall outlet. It stops charging when fully charged.

Note: Do not plug the unit's AC charging cable into its own AC outlet. Doing so could damage the connected device.

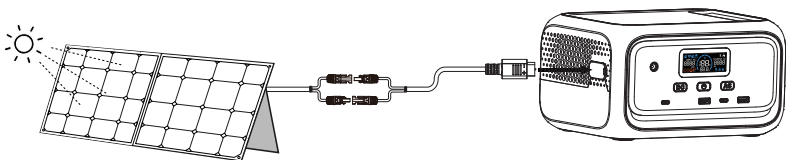


Solar Panel

Connect the solar panel(s) either in series or parallel, then use the solar charging cable to link them to the Elite 10.

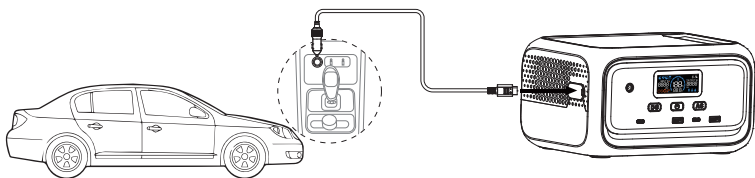
Notes:

- Make sure the solar panel(s) meet the following requirements:
Voc: 12 V-28 V Current: 8.2 A Max. Power: 100 W Max.



Car (12 V/24 V)

Connect the Elite 10 to your car's 12 V or 24 V cigarette lighter port or socket using the car charging cable.



Notes:

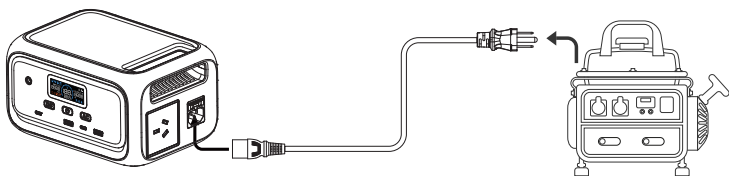
- Make sure your car has power and the engine is running while charging.
- Avoid over-discharging the car's battery.

Generator

Connect the Elite 10 to a generator using the AC charging cable. The charging stops automatically when fully charged.

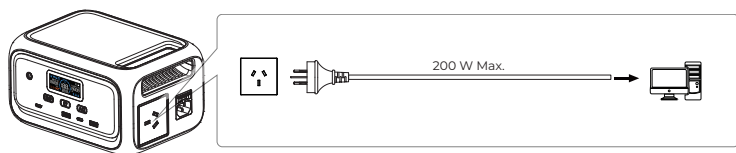
Notes:

- Use a generator with a pure sine wave output that matches the required voltage and frequency, and meets or exceeds the Elite 10's input needs.
- It's recommended to enable **Grid Self-Adaption** mode when charging the Elite 10 with a generator.



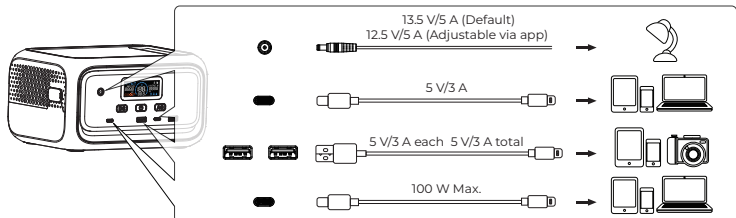
4.3 Power Your Devices

AC Outlet



Note: When servicing devices connected to the unit, make sure to unplug them from the outlet. Even if the AC output is turned off, physically unplugging the devices is necessary for complete disconnection.

DC Outlets



4.4 LED Light

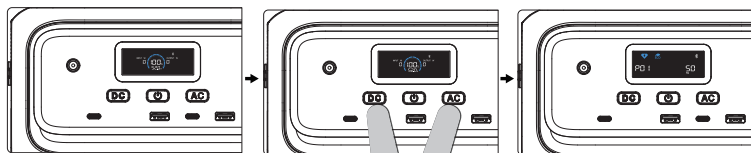
When the Elite 10 is on, press the light button to cycle through modes: Cool White → Warm White → SOS. Press and hold to turn off.

5. Configure Your Elite 10

The Elite 10 can be configured using either the device's buttons or the BLUETTI app. For advanced settings, such as enabling Grid Self-Adaption mode or configuring ECO mode, use the BLUETTI app. Refer to the app manual for more details.

5.1 Setting Mode

Enter the Mode: Press and hold the AC and DC power buttons simultaneously for about 2 seconds. The frequency icon flashes.

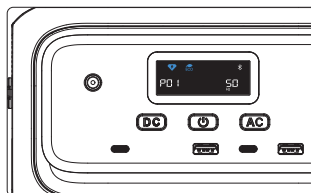


Exit the Mode: Press and hold both the AC and DC power buttons again.

If there is no activity for 1 minute, Elite 10 will automatically exit and save the changes.

Adjust settings in Settings Mode.

- Turn off the AC power first.
- Press the DC power button to navigate through the items, and press the AC power button to adjust.



Page Code	Setting
P01	Frequency
P03	AC Charging Mode
P04	Power Lifting Mode
P05	ECO Mode
P06	Bluetooth

5.2 AC Charging Mode

The Elite 10 offers three charging modes: Standard, Turbo, and Silent. Set Standard and Silent modes directly on the display, and use the app to activate Turbo mode. By default, the unit charges in Standard mode.

Mode	AC Input	Solar Input	AC + Solar Input	AC Charging Time (Estimated)	Note
Standard	70 W Max.	70 W Max.	70 W Max.	2 hrs	Battery-friendly
Turbo	150 W Max.	100 W Max.	150 W Max.	80% in 45 min	Quick recharge
Silent	40 W Max.	40 W Max.	40 W Max.	5 hrs	Quiet operation

Notes:

- Charging time may vary depending on the ambient temperature.
- The above data is for reference only.

5.3 Power Lifting Mode

Power Lifting mode is disabled by default. It allows Elite 10 to power up to 400 W pure resistive loads like electric heated mugs, electric blankets, and similar heating devices.

Note: This mode is only for pure resistive loads rated 200 W-400 W. While the Elite 10 can handle such loads, its actual output power is still 200 W.

5.4 ECO Mode

AC-ECO and DC-ECO modes are disabled by default. When ECO modes are turned on, please be cautious that the Elite 10 will shut off the AC or DC output after a period of low or no load.

Set the auto shutdown power threshold and auto-off time via the app.

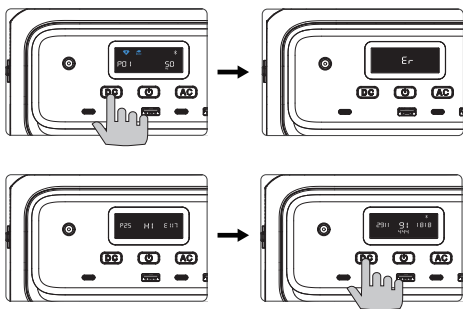
Notes:

- Both AC-ECO and DC-ECO modes are unavailable when charging with AC power.
- Press the AC power button to turn on/off AC-ECO and DC-ECO modes together, and use the BLUETTI app to control them separately.
- Disable the ECO mode when connecting small devices or critical appliances such as lights and refrigerators.

6. View Device Information

View device information in Settings Mode, too.

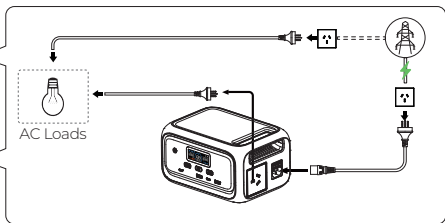
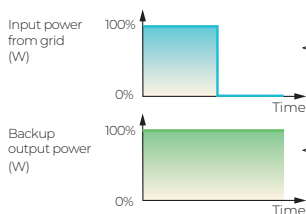
- Go to the P01 frequency page and long press the DC power button to view the unit's SN. Press the DC power button again to navigate through other information.
- When on Fault History page, long press the AC power button for about 2 seconds, then release to clear the history.



Page Code	Information
2911 91 1818 ----	Serial Number (SN)
Er	Error Code
HI	Fault History
UE	Firmware Version

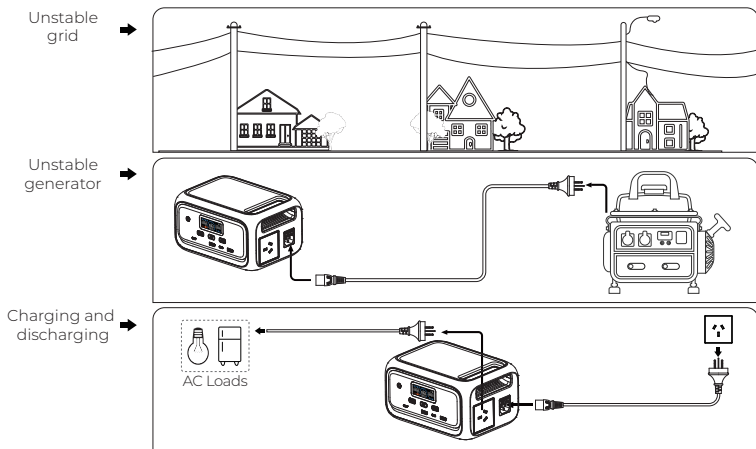
7. UPS Feature

Connect the Elite 10 to the wall, and it directly draws power from the outlet to operate connected devices. It swiftly switches to battery power within 10 ms during an outage.



8. Grid Self-Adaption Mode

When charging with an unstable generator or grid power, or if consumption power exceeds charging power, enable this mode in the app. The Elite 10 automatically adjusts to handle power fluctuations, protecting the unit and connected devices from potential issues due to variations in power quality.



9. Maintenance and Care

- When the SoC drops to 5%, charge the unit in time.
- Before storing, charge to 40%-60% SoC, then power off and disconnect all cables.
- Store it in a cool, dry place, away from flammable materials.
- Safe storage temperature: -20°C to 45°C (-4°F to 113°F). For storage over a month, keep it at 10°C to 30°C (50°F to 86°F).
- Fully cycle every 3 months to maintain battery health.
- Avoid extended storage; it may impact performance and lifespan.

If SoC drops to 0 during storage or startup:

- Shut down immediately.
- Charge within 48 hours.
- Keep it at 5°C to 35°C (41°F to 95°F) for 6 hours before charging.
- Recommended to charge via an AC source; if using solar energy, ensure an input of over 20 W.

10. Specifications

Model	Elite 10
Battery Capacity	128 Wh (20 Ah)
Battery Type	LiFePO ₄
Weight	About 3.97 lbs (1.8 kg)
Dimensions (L × W × H)	7.87 × 5.75 × 4.33 in (200 × 146 × 110 mm)
Charging Temperature	32°F to 104°F (0°C to 40°C)
Discharging Temperature	-4°F to 104°F (-20°C to 40°C)
Storage Temperature	-4°F to 104°F (-20°C to 40°C)
Operating Humidity	10% to 90%
Noise	45 dB Max.
Communication	Bluetooth
Operating Altitude	≤ 6,561.68 ft (2,000 m)
IP Rating	IP20
AC Output	
AC Output (Discharging/Bypass)	US: 200 W Max., 120 V, 60 Hz
	JP: 200 W Max., 100 V, 50 Hz/60 Hz
	CN: 200 W Max., 220 V, 50 Hz
	PH/EU/ZA/UK/AU: 200 W Max., 230 V, 50 Hz/60 Hz
DC Output	
2 × USB-A	5 V/3 A per port, 3 A Max. in total
1 × 15 W USB-C	5 V/3 A
1 × 100 W USB-C (PD 3.0/QC 3.0)	100 W Max.; 5/9/12/15 V, 3 A Max.; 20 V, 5 A Max.
1 × DC5521 Port	13.5 V/5 A (Default)
	12.5 V/5 A (Adjustable via app)
LED Light	150 lm to 200 lm
AC + DC Output	200 W Max.
AC Input	
AC Charging	US: 150 W Max., 120 V, 60 Hz
	JP: 150 W Max., 100 V, 50 Hz/60 Hz
	CN: 150 W Max., 220 V, 50 Hz
	PH/EU/ZA/UK/AU: 150 W Max., 230 V, 50 Hz/60 Hz
AC Charging + Bypass	350 W Max.
Uninterruptible Power Supply (UPS)	
Switchover Time	≤ 10 ms

Model	Elite 10
DC Input (XT60)	
Solar	100 W Max., 12 V to 28 V, 8.2 A Max.
Car	100 W Max., 12 V/24 V, 8.2 A Max.
AC + DC Input	150 W Max.

11. Troubleshooting & FAQs

On the Error Code page, the **Er** and error code appears simultaneously on the screen. See the table below for guidance.

Error Code	Description	Solutions
E001	Inverter overload	• Check device power usage. • Reduce load if too high.
E002	Inverter overtemperature protection, AC output off	• Check devices for short circuits. • Disconnect and fix.
E003	Inverter short circuit	• Check device power usage. • Check devices for short circuits.
E033	PV overvoltage	• Ensure the PV input voltage is within 12 V-28 V.
E039	PV overtemperature	• Wait 10 min for the unit to cool down. • Re-enable the PV input.
E065	DC output short circuit	• Check devices for short circuits. • Disconnect and fix.
E067	DC output overcurrent	• Check device power usage. • Reduce load if too high.
E068	DC output overtemperature	• Wait 10 min for the unit to cool down. • Restart your devices.
E085	Charging temperature too high	• Wait for the unit to cool down before charging it again.
E086	Charging temperature too low	• Place the unit in an ambient temperature range of 32°F to 104°F (0°C to 40°C).
E087	Discharging temperature too high	• Wait for the unit to cool down before using it again.
E088	Discharging temperature too low	• Place the unit in an ambient temperature range of -4°F to 104°F (-20°C to 40°C).
E115	Grid overfrequency	• Verify home grid frequency. • Contact utility company if necessary.
E116	Grid underfrequency	• Verify home grid frequency. • Contact utility company if necessary.
Others	/	• Contact BLUETTI support for help.

FAQs (Frequently Asked Questions)

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

A: Keep the total power below 200 W. Some devices with motors or compressors may start at 2-4 times their rated power, which could easily overload the Elite 10.

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

A: Yes, you can use third-party solar panels with an open circuit voltage of 12 V-28 V and MC4 connectors. Avoid mixing different types of solar panels.

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

A: Yes, the Elite 10 supports pass-through charging.

Q4: Why is the charging power often too low?

A: The built-in BMS adjusts the charging power based on battery temperature and SoC to protect the battery and extend its life.

Q5: How to calculate the operation time?

A: Operation time = Battery Capacity x DoD x η ÷ (Load + Elite 10's Self-consumption)

Note: DoD (Depth of Discharge) is 95%. η (inverter efficiency) is over 90%. Elite 10 self-consumption is about 7W.

Appendix

Update Firmware via BLUETTI App

Keeping firmware updated is IMPORTANT for optimal performance. For detailed instructions, refer to the app user manual in the app. This manual uses the Elite 200 V2 upgrade as an example.

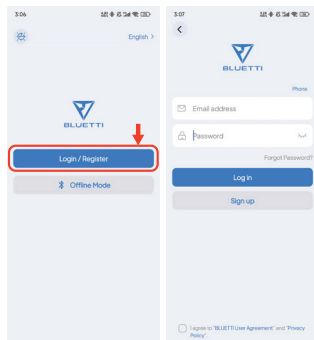
1. Download the BLUETTI app

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



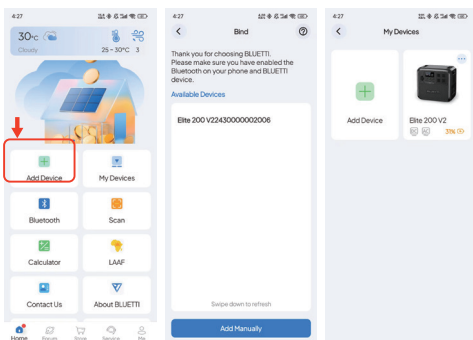
2. Log in or sign up

Log in with a BLUETTI account. If there is no account, create one by following the on-screen instructions.



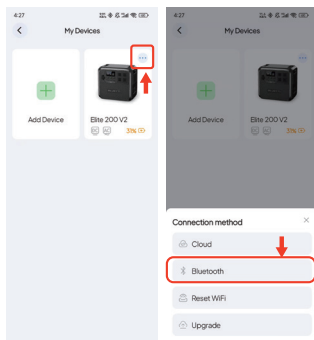
3. Bind the unit

- Tap Add Device directly or access My Devices > Add Device to start the process.
- Select the unit from the available device list, or choose Add Manually and enter the unit's serial number (SN).
- Alternatively, tap Scan on the Home page or in Add Device page to bind via QR code.



4. Connect via Bluetooth

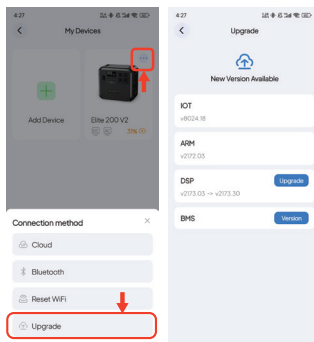
On the My Devices page, tap the unit and select Bluetooth as the connection method.



5. Check for Firmware Updates

Tap **Upgrade** to access the **Upgrade** page.

The app will check for the latest firmware version available for the unit.



6. Download and Install the Update

If a new firmware update is available, tap **Upgrade** and follow the on-screen instructions.

Notes:

- Ensure the unit remains powered on and connected during the update.
- Keep your phone and the unit close together (recommended range: 16.4ft / 5m).
- Do not exit app until done.

Need Help? We're here for you!

Customer Service(AU)

+61 8 89224712 (Monday to Friday: 9:00 - 12:00, 13:00 - 18:00 AEST)

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Certificate

Inspector: _____

QC: _____

ALWAYS SHARE EXCELLENCE

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